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## Company News

### ***Autodesk Provides Students with Competitive Design Edge at FIRST Robotics Championship***

15 April 2008

Thousands of high school students are jumping ahead of the curve at the 2008 FIRST Robotics Competition Championship this weekend, with the help of \$17 million in professional software and mentoring resources provided by Autodesk, Inc.

The April 17-19 event at the Georgia Dome attracts more than 20,000 spectators and is a culmination of 41 regional competitions involving more than 37,000 students from all over the world. Autodesk is sponsoring the competition for the 17th consecutive year, working with Dean Kamen's FIRST organization (For Inspiration and Recognition of Science and Technology) to help inspire student interest in science, technology, engineering and math and to train the next generation of professionals to fill an impending global engineering talent shortage.

Students participating in the competition are well-positioned to help fill a void noted in U.S. Bureau of Labor Statistics figures, which project scientific and engineering job opportunities will continue to grow more rapidly than jobs in general (26% versus 15% overall) through 2012(1). Further, U.S. graduation rates for students declined by 23 percent between 1985 and 2000, and Europe and Asia now graduate three-to-five times as many engineers as does the United States.(2) The shortage is compounded by poor performance, with U.S. students ranking only 12th among developed nations in median science test scores(3). This engineering gap exists globally as well, as only 25 to 30 percent of India's engineering and science graduates are "suitable" for careers in their chosen field, according to the head of India's National Association of Software and Services companies.

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"Sliding student science scores, combined with a wave of retiring Baby Boomers, mean the United States will face a serious engineering gap in the very near future," said Paul Mailhot, senior director of worldwide education programs at Autodesk. "Autodesk and FIRST are helping to close this gap by inspiring enthusiasm and excitement for science and math at an early age, a focus that helps spur student interest in the pursuit of advanced education and future careers in design and engineering. Gaining real-world experience by using tools used by professionals, while working side by side with mentors who might one day employ them, FIRST students have a competitive edge and are our nation's hope for a strong engineering workforce in the future."

Through its 17 years of supporting the FIRST Robotics Competition (FRC), Autodesk has provided students more than \$100 million in mentoring resources and advanced design and engineering software, including Autodesk Inventor, 3ds Max and Autodesk Combustion. Autodesk is proud to participate in a program that has produced quantifiable results in career development. A Brandeis University study (4) compared FIRST student participants to their counterparts not involved in FIRST, finding:

- FIRST students are more than three times as likely to major specifically in engineering;
- More than twice as likely to pursue a career in science and technology;
- Nearly four times as likely to pursue a career specifically in engineering;
- More than twice as likely to volunteer in their communities

"My involvement with FIRST has led to tremendous success," said Robert Thacker-Dey, former FIRST participant and current honors student at Penn State University. "For four years, I lived and breathed Autodesk Inventor, and Autodesk professionals actually told our team that we use the program more efficiently than some professional engineers. I was able to obtain a full academic scholarship, in large part because of my participation in FIRST and exposure to Autodesk tools. FIRST has given me the motivational legs to walk on, and Autodesk has given me the thinking process and strategy to become an engineer with a three-dimensional mindset."

To help spark further student excitement around engineering and design, Autodesk is once again hosting two companion competitions in conjunction with the FRC. The Autodesk Inventor Design Competition (<http://firstbasefrc.autodesk.com/?nd=competition>) recognizes the team with the top mechanical robot design using Autodesk Inventor software, which is the foundation for Digital Prototyping. The Autodesk Design Visualization Competition awards the team with the best 3D animation, using Autodesk 3ds Max (<http://usa.autodesk.com/adsk/servlet/index?id=5659302&siteID=123112>) modeling, animation and rendering software. To qualify for the Visualization award, the animation must fit this year's challenge to develop community-enhancing inventions, such as, multiple uses for grey water, alternative transportation, alternative energy, automated trash collection, car and traffic safety, water testing, etc. Overall winners of these competitions will be announced this weekend at the championship event.

Autodesk is also sponsoring the FIRST Tech Challenge (FTC) through donations of Autodesk Inventor software and customized training, and resources to student competitors. The FTC is complementary to the FIRST Robotics Program, bringing its spirit and values to a greater number of students and schools of varying resources. More than 8,000 high-school-aged students from the United States, Canada and competed in FTC tournaments from November 2007 through April 2008 and will also hold their final activities at the FIRST Championship in Atlanta, Georgia.

For more information please visit the Autodesk FIRSTbase Web site (<http://www.autodesk.com/firstbase>).

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1 National Science Foundation, "Science and Engineering Indicators 2006,"

National Science Foundation (2006)

2 American Society for Engineering Education, "ASEE Announces Newly Improved

K-12 Outreach Program Database," American Society for Engineering Education (April, 2006).

3 Organization for Economic Cooperation & Development, World Bank (BusinessWeek, Feb. 2008)

4 Center for Youth and Communities, "More than Robots: An Evaluation of the FIRST Robotics Competition Participant and Institutional Impacts," Heller School for Social Policy and Management, Brandeis University

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## ***CFD-Online Launches Dedicated User Forum for Flomerics' CAD-Embedded Simulation Software***

April 2008

CFD-online, the online center for Computational Fluid Dynamics (CFD) has set up a dedicated User Forum for users of Flomerics EFD suite of simulation software. CFD-online is a CFD portal, providing web services including discussion forums, a jobs database, and links to CFD resources around the world. To support the growing number of users of CAD-embedded CFD, CFD-online has set up a dedicated discussion forum for users of EFD.Pro, EFD.V5, EFD.Lab and as well as SolidWorks-branded CosmosFloworks and FloXpress. "We welcome this move by CFD-online" commented John Parry, research manager at Flomerics. "This is timely due to the recent release of FloXpress which is being provided to all SolidWorks 2008 customers and the growing commercial and educational use of EFD and CosmosFloworks".

The EFD simulation suite consists of: EFD.Pro – a fully embedded CFD solution for Pro/ENGINEER Wildfire; EFD.V5 – a fully embedded CFD solution for CATIA V5; and EFD.Lab – a general-purpose fluid analysis tool that supports Inventor, Siemens NX, Solid Edge as well as other popular MCAD programs. To learn more about Flomerics family of simulation products, please visit

<http://www.flomerics.com>,

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## ***EDST Announced the Launch of its Training Centre in Bangalore Which Will Provide Industry-Focused Training in PLM Tools Like CATIA V5, ENOVIA***

14 April 2008

These training centers will be focusing on building domain expertise in the areas of PLM and Engineering Competitiveness specifically aligned to the manufacturing and engineering services industries.

The school will be targeted towards students in the pre-final and final years of mechanical and manufacturing engineering from engineering colleges/institutes, unemployed students as well as working professionals seeking a change in career to PLM and corporates looking at training their employees.

The training center is built on 2200sq feet of area and is well equipped with all the necessary peripherals. The training will be imparted by industry experts. The center is capable of training 30

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students at a time. The programme includes a curriculum that comprehensively covers the concepts and advanced features of PLM tools that enable conceptual and detailed designing, besides manufacturing design, resulting in state-of-art knowledge based solutions.

EDST uses licensed PLM solutions from Dassault Systemes of France to help trainees get a strong foothold in engineering services and the manufacturing sector. These solutions enable a rich and interactive learning experience while providing the largest scope of employment opportunities.

CATIA can be applied to a wide variety of industries, from aerospace, automotive, and industrial machinery, to electronics, shipbuilding, plant design, and consumer goods. CATIA is used to design anything from an airplane to jewelry and clothing.

“The explosive growth in the Product Life Cycle Management sector will be hampered by shortage of qualified people unless we invest in educating and training professionals who can join the field,” said S Senthil, President, EDST. He further added “Our training centers will help address the staffing needs of the PLM industry by making available a talent pool that immediately fits their needs and their client’s specific needs.”

“EDST’s Training Centres will create an employable talent-pool trained on Product Lifecycle Management (PLM) technology. Engineering services and manufacturing sectors will save cost and effort spent on talent acquisition by recruiting from EDST’s Training Centres. The Training Centres provide complete staffing solutions to the PLM industry.” said Suman Bose, Country Director, Dassault Systemes India. "

EDST will leverage its knowledge of the recruitment needs of the PLM industry, including OEMs, aerospace and automotive sectors, to offer targeted placement assistance to deserving trainees, while offering timely staffing solutions to its customers.

The company plans to open two more centers in Pune and Delhi in the year 2008-2009 and expects to train around 300 individuals through this program.

EDST, the largest PLM partner of Dassault Systemes, plays a vital role in implementing Dassault PLM Solutions, in India across various industry segments.

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## ***Endeca Names Enterprise Software Veteran Jeff Murphy as Senior Vice President of Sales***

14 April 2008

[Endeca Technologies, Inc.](#) announced the appointment of Jeff Murphy to senior vice president of sales.

Prior to Endeca, Murphy held numerous sales leadership roles at companies such as SAP, Oracle, Storage Networks, and Yantra. At Yantra, Murphy was the executive vice president of sales and services and led a team that doubled annual revenue and spearheaded the company's successful efforts to create the synchronized order fulfillment category in the retail industry. At Storage Networks, he was the senior vice president of sales leading the company from its pre-customer stage to more than \$120 million in recurring revenue and its successful IPO. During his tenure at SAP throughout the 1990s, Murphy spearheaded key industry verticals and was one of the top six sales executives of SAP America leading a team responsible for more than \$400 million in annual sales. Prior to SAP, Murphy was part of the Oracle sales team during Oracle's emergence as the worlds RDBMS standard.

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## ***For the Fourth Year in Succession, Atos Origin Wins SAP Partner Excellence Award for Customer Satisfaction and Quality***

16 April 2008

Atos Origin announced that it won the SAP Partner Excellence award for Customer Satisfaction and Quality for the fourth year in succession.

This award is determined by an independent customer satisfaction survey, in which customers are asked to rate SAP partners on all aspects of the SAP implementation process, including professional competence, quality of consultants, SAP product know-how and ability to deliver on time and to budget. This year Atos Origin scored its highest ever score.

“To win this award four years running is a truly unique achievement and testament to the skill, knowledge and performance of our SAP team of experts and our strong client relationships,” said Ursula Morgenstern, Senior Vice President for Systems Integration in the UK. “SAP is a focus area for Atos Origin and we are committed to deliver continual improvement and innovation to ensure that we help our clients meet their business objectives.”

“Atos Origin is a key partner for SAP and has a strong track record of successful SAP implementations,” said Bob Thomas, Quality Director at SAP for UK and Ireland. “This award is a key indicator of client satisfaction and service and is an outstanding achievement for Atos Origin, recognising the high regard with which it is held by its customers.”

Atos Origin has over 20 years experience working with SAP solutions and is a SAP Global Hosting Partner, a Global Services Partner, a member of the SAP NetWeaver® Partnership Initiative and a leading member of the Enterprise SOA adoption program. With more than 4,400 SAP consultants around the globe and Certified SAP Data Centres in all geographical regions our client list includes: Akzo Nobel Intervet, Huntsman Tioxide, Philips, Sibeg srl, Total and Vitens.

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## ***Intergraph® Introduces SmartPlant® Enterprise Virtual Training***

15 April 2008

Intergraph® has introduced SmartPlant® Enterprise Virtual Training, a remote self-study instructional program that will enhance training flexibility and accelerate project implementation.

SmartPlant Enterprise Virtual Training (SPVT) is a comprehensive program of online, in-depth training courses that enable an unlimited number of engineers at multiple locations anywhere in the world to be trained at their own pace whenever and wherever they choose. Offering the convenience of training at home or office, these instructor-led desktop courses are designed to help SmartPlant Enterprise 3D plant engineering design and data management software users further develop valuable skills and learn in an intuitive, innovative self-study format. Instruction is engineering workflow-driven instead of the typical command-centered format.

"Fluor Corporation believes that how well designers and engineers are trained affects their efficiency and willingness to accept the work process changes that the effective use of the SmartPlant 3D plant design software demands. The basis for Fluor's Next Generation Learning Strategy was to design a process that was both efficient and effective in supporting these principles. We determined early on that in addition to our learning environment that teaches Fluor work processes, we needed a method to teach

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the SmartPlant 3D core product more effectively than the traditional classroom courses. We believe the SmartPlant Enterprise Virtual Training (SPVT) provides Fluor the variability and flexibility we need to effectively transition our work force to SmartPlant 3D," said Mike Pye, director of Project Automation.

"The need for our growing SmartPlant customer base to quickly train SmartPlant 3D plant design software users to implement and scale projects has led us to develop this innovative approach to training," said Patrick Holcomb, Intergraph Process, Power & Marine executive vice president, global business development. "SmartPlant Virtual Training will provide new levels of flexibility and enable customers to achieve higher productivity, anywhere in the world, now faster and cheaper than ever before."

This format is developed for engineering firms that desire faster or quicker implementations and is not limited to the number of Intergraph training facilities or available instructors. A virtual course can also serve as an introduction to a topic prior to traditional training or as a "how-to" refresher for someone who has already had the instructor-led training. Each course gives one individual an Internet login to the lessons available in one course. The lessons can be referenced as often as requested during the 12-month access period.

SPVT offers the following client benefits:

- Accelerated learning - quickly train large numbers of users with the ability to scale up or down to meet project demands
- Reduced training costs - eliminate travel expenses with less time away from existing projects
- Global workshare - provides consistent training across the world to global workshare engineering teams
- Increased efficiency - share best practices and consistent methodologies; ensure everyone receives approved training
- Improved flexibility - self-study at your own pace; take up to 12 months to master the material from your home or office, day or night

For more information about SPVT courses, visit <http://ppmtraining.intergraph.com/?source=spvt>

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## ***Peter Schmitt Appointed Vice President, Automotive Sales, Dassault Systèmes Americas Corp***

14 April 2008

Dassault Systèmes ([DS](#)) announced that Peter Schmitt, Ph.D. has been appointed vice president of sales, automotive for Dassault Systèmes Americas Corp. In this role, Dr. Schmitt is responsible for leading the automotive sales team in support of the DS PLM offering of CATIA, ENOVIA, DELMIA, SIMULIA and 3DVIA.

Dr. Schmitt has been part of the Dassault Systèmes in various executive positions since 2000, most recently serving as vice president of marketing and business development for Dassault Systèmes' DELMIA brand in Auburn Hills.

"Peter has been instrumental in helping Dassault Systèmes gain visibility and brand recognition in North America," said Philippe Forestier, executive vice president, network sales, and DS's senior executive in the Americas. "With recent changes in our sales structure, we know that Peter will be a true asset to our

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sales team, helping us achieve multi-brand presence within current and prospective OEM and Tier customers.”

Prior to this, Dr. Schmitt was with EAI-Delta GmbH and DELTA Industrie Informatik GmbH (Fellbach, Germany), a developer of integrated product and process engineering software, where he defined and positioned the solution within the European market and played a major role in the know-how transfer to the United States. Dassault Systèmes acquired EAI-DELTA in 2000 and consolidated it with two other companies to form the DELMIA brand organization.

Dr. Schmitt holds bachelor’s and master’s degrees in mechanical engineering from the University of Karlsruhe, as well as a doctorate in engineering from the University of Stuttgart in Germany. He currently lives in Birmingham, Michigan.

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## ***Zuken’s Growth Calls for Appointment of Vice President of International Marketing***

17 April 2008

Aurang Rona joins [Zuken](#) as the Vice President of International Marketing for Europe and the USA. In this newly created position, his primary role is to head-up the marketing team across the region and support business development to follow the ambitious Western growth strategy set by Zuken’s board of directors.

In addition to guiding the marketing strategy in the West, Rona will also work to forge even stronger relationships with Zuken’s headquarters in Japan to bring together Western and Eastern strategies. This will enable Zuken to deliver a globally synchronized offering for companies in Asia, Europe and the Americas. To meet the challenges of growth within Zuken, Rona will support senior management with developing the organization for the future.

Rona brings to Zuken a wide range of experience from different IT related industry sectors in a variety of roles. This combination enables him to take a holistic approach as to how Zuken can best meet the diverse demands of companies facing a wide range of challenges in their design processes.

Rona began his career as a pre-sales consultant assisting sales reps selling UNIGRAPHICS MCAD and PLM software at McDonnell Douglas Information Systems, where he proceeded to progress to a position as Central European Pre-Sales Support Manager for UNIGRAPHICS and IMAN. He then moved into various business development and marketing manager roles at Hewlett Packard, Parametric Technology GmbH and then to the BMW Group IT Consulting Company, Softlab GmbH. Before joining Zuken, Rona worked as a freelance consultant taking on, project management and interim management projects for business development and marketing. During this time he worked for a range of companies in the manufacturing and IT sectors, carrying out strategic marketing projects, operational marketing, alliance management, business development, product management and sales support.

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## Events News

### ***Cimatron Brings Mold Making Solutions that Enable Faster Delivery to MoldMaking Expo 2008***

17 April 2008

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Visitors to the upcoming MoldMaking Expo tradeshow (April 23 – 24, 2008, Novi, Michigan) will be able to see Cimatron's suite of integrated CAD/CAM solutions that are proven to help mold makers deliver higher quality tools at lower costs and shorter cycle times.

Cimatron's CAD/CAM solutions address the entire process—from quoting through design, engineering changes, NC, and EDM programming to delivery. On display at the show will be Cimatron's solution for concurrent design and manufacturing, as well as exciting CAD/CAM enhancements recently released by Cimatron.

## **Concurrent Engineering**

Cimatron's concurrent engineering capabilities improve productivity and collaboration and significantly compress product delivery times.

Concurrent design capabilities are built into Cimatron's CAD applications, enabling multiple users to simultaneously work on the same assembly and shortening the design cycle. Starting with the new release of CimatronE version 8.5, these concurrent design capabilities are available throughout the entire CAD product line.

[Cimatron](#)'s support for concurrent engineering extends beyond the design phase. The integrated end-to-end design-to-manufacturing solution uses a single database that provides complete associatively and enables multiple steps of the design and manufacturing process to be performed in parallel.

These concurrent engineering capabilities and more will be demonstrated at Cimatron's booth #323 at the 2008 MoldMaking Expo.

Also on display at the show will be new capabilities recently released in CimatronE version 8.5. These include modified NC reports, enhancements to the Automated Drill application, spiral cut milling and 3-5 Axis transformations in 5-Axis Production, and integrated CADENAS catalogs.

Streamlined Numerical Control:

**Modified NC Setup Reports:** Automatically-generated NC reports facilitate the information flow between NC programmers and the shop floor, providing machine operators with detailed information that includes the tool paths, procedures, tools, and parameters for each job. Images and user-specific information can be added to the reports, which can be presented either online or in print.

**Automated Drill:** New operations added to the Automated Drill application include profiling of holes and threading cycles, as well as pocketing for pre-drill preparation of difficult to drill areas such as slanted surfaces. These operations can be integrated into the automated drill sequence and reused from libraries to increase efficiency and accuracy.

**5-Axis Production:** CimatronE version 8.5 features new enhancements to the 5-Axis Production application, including spiral cut milling, 3-5 Axis transformations, and advances in impeller roughing.

## **Integrated CADENAS Catalogs**

CADENAS PARTsolutions is now integrated into CimatronE 8.5, enabling mold makers to shorten design cycles by incorporating ready-made CADENAS catalog parts into Cimatron tool assemblies.

While the catalog functionality has long been available in Cimatron's software, the CADENAS catalogs place thousands of new standard components at the disposal of Cimatron users, eliminating many of the manual and time-consuming steps in the tool design process.

Visit Cimatron at the MoldMaking Expo, April 23- 24, 2008

Rock Financial Showplace

Booth #323

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## ***Dassault Systèmes Highlights Benefits of CATIA Knowledge Templates at SAE***

14 April 2008

Dassault Systèmes ([DS](#)) will be addressing how Knowledge Templates can leverage the power of CATIA V5 in booth #1550 at the SAE 2008 World Congress in Detroit from April 14 – 17. Knowledge Templates combine various elements of product design such as geometry, product structure, corporate and industry standards, and industry know-how to jumpstart the design process. Harnessing this engineering knowledge enables faster and higher quality product development.

Knowledge templates enable the creation of intelligent components, which can adapt to a new context without losing the original design intent in a process known as component morphing. In a traditional product development process, each new component would require significant engineering time. By developing Knowledge Templates, certain features can be selected as changeable elements of the part design. New parameters are plugged into these features and the design automatically transforms to reflect the new component. Knowledge can be accessed and used at every product development stage, from concept through maintenance. Non-value-added activities are eliminated resulting in a significantly leaner product development process.

Through a Business Value Assessment™ conducted by Dassault Systèmes for Hyundai-Kia America Technical Center's Engineering Design organization, it was determined that Hyundai could save more than \$3 million per year; the equivalent of 51,000 engineering hours or 25 full-time engineers. A major aspect of this initiative relied upon CATIA's ability to streamline routine work by capturing corporate knowledge as re-usable templates and creating global standards for how designs should be structured. Re-use of existing design data and intellectual property was also improved, allowing the company to focus on new-value-add work rather than re-inventing the wheel.

“Knowledge-based modeling in CATIA saves companies time by allowing them to reuse previous designs and leverage previous experience rather than designing from scratch,” said Peter Schmitt, vice president, automotive sales, Dassault Systèmes Americas Corp. “If they plan for this work upfront, they can obtain incredible savings such as ASC achieved on its Infinivu open air roof system, where it was able to reduce each new vehicle design from 20 days to just one.”

In addition to speed, quality improvements are gained through use of the templates. Downstream rework is eliminated because design standards, parameters, rules and regulations are enforced through the templates at the beginning of the design process.

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## ***Delcam to Highlight Higher Productivity at MTA Malaysia***

16 April 2008

Delcam will highlight the higher productivity that is possible with the latest release of its PowerMILL CAM software at the MTA Malaysia exhibition to be held in Kuala Lumpur from 7th to 11th May. At the show, Delcam will also demonstrate its feature-based CAM system FeatureCAM and preview the

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forthcoming version of Delcam's CAD software PowerSHAPE, plus the new customized solutions for the dental and footwear industries.

Delcam recently undertook a series of trials to confirm the added productivity that is possible with the latest release, PowerMILL 8. These showed reductions in the average programming time of 30% and in the average machining time of 15%, when compared to the results obtained with the PowerMILL 7 version. On this basis, a typical sub-contract or toolmaking company, programming and machining an average of 300 different parts per year, could recoup the cost of a PowerMILL licence in just over three months.

FeatureCAM development has always and will continue to focus on maintaining a clear consistent work flow for all types of programming, including turn/mill, 3-axis milling, 5-axis milling and wire EDM, so even a beginner or occasional user can be efficient with FeatureCAM right away. Commenting on latest developments, Tom McCollough, Vice President of FeatureCAM Software Development, explains, "We work very hard to make a product that is easy to use by novices and infrequent users, yet with the all the power needed for advanced part programming. For us, powerful means the ability to control the product to do exactly what the customer needs it to do while utilizing advanced technology to free the user of the burden to specify obvious manufacturing information and techniques. FeatureCAM has long been a leader in CAD/CAM automation. With the addition of new toolpath editing functions and strategies we have extended the range of options that provide precise control for our customers."

The development focus for PowerSHAPE, in the last year has been to recapture the simplicity offered by the software when it was first introduced in 1999. "When we first launched PowerSHAPE, customers were impressed by features like the intelligent cursor which made the software so much easier to use than other surface modelers," commented Delcam's CAD Development Director, Stuart Watson. "Since then, we have added more and more functionality to the program. While our established users have welcomed this process, it has made the interface more intimidating to potential new customers," he added. "With our new versions, we have re-organized the whole interface to place commands in a more logical structure and so make it easier both for new users to learn and faster for existing users to operate."

During the last 25 years, Delcam has built within the organization a wealth of knowledge and experience across many industries. This knowledge has crossed into areas outside traditional manufacturing sectors, allowing new industries to benefit from the software knowledge Delcam has developed. It can be seen in new products like DentMILL, a standalone machining application for the dental industry, and OrthoModel, an engineering solution for the design and manufacture of orthotic insoles.

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## ***PTC/USER World Event 2008: Agenda Dates and Times***

April 2008

**Agenda Dates and Times Now Available** You can now view the list of expert presentations, Product Development Sessions, Product Update Briefings, training and more. Go to the [web site](#) for more information.

Come to California and take advantage of PTC University Precision Learning training, hands-on workshops for Pro/ENGINEER or one of over 300 other technical and business sessions covering [Pro/ENGINEER®](#), [Windchill®](#), [Arbortext®](#), [Mathcad®](#), [ProductView™](#) and [CoCreate®](#).

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**Manufacturing Pavilion Debuts.** Get an up-close look at the latest technology available to help you solve your real world manufacturing challenges. The [Manufacturing Pavilion](#) is the place for attendees to engage PTC and their Partners to discuss how to take great designs and turn them into great products. Watch as actual PTC-designed components are prototyped, then manufactured in true "art-to-part" fashion.

**Keynote Speakers Announced.** Pat Waddick and Scott Summit will be the keynote speakers. [Learn more here...](#)

**Pro/ENGINEER Hands-On Workshop.** Try out the newest capabilities in Pro/ENGINEER! This workshop will let you experience the most exciting enhancements in Pro/ENGINEER Wildfire 4.0. PTC's highly skilled Application Engineers and a self-driven tutorial will guide you through tolerance analysis, digital rights management, ECAD-MCAD collaboration, JT support, Auto Round™ and much more. We will offer in-depth sessions multiple times on Monday, Tuesday, and Wednesday of the conference.

Learn the best practices from community experts for applying PTC technologies. Get the inside scoop on the latest versions of your favorite PTC software. Learn tips and tricks to boost your productivity. Join your peers, partners and PTC at this can't-miss event and walk away with the knowledge you need to succeed. Visit the [registration page](#) for complete details, or if you're ready to sign-up you can go directly to [online registration](#).

**PTC/USER World Event 2008. June 1-4, Long Beach, California**

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***Sescoi to Present Tips for Successful 5-Axis Machining at Conference During MoldMaking Expo 08***  
16 April 2008

Sescoi will be exhibiting its latest CAM/CAD software WorkNC G3, its new ERP software WorkPLAN Enterprise, and its job management system MyWorkPLAN, in booth 627 at the MoldMaking Expo 08 on the 23rd and 24th of April at the Rock Financial Showplace, Novi, Michigan, USA. Aimed specifically at the mold making industry, the show has a full conference program, and Jeff Jaje, Marketing & Business Development Manager from SESCOI and Dan Bayn, CAM Manager from AV Gauge will be presenting a study on Successful Five-Axis Machining for Mold Manufacture.

They will be illustrating how 5-axis machining allows the use of short rigid cutters and how it enables more of the part to be machined in one setting, together with the resulting benefits which include fewer EDM sinking operations and shorter cycle times. Additionally, tips for common problems when choosing, implementing and using 5-Axis machining will be discussed.

WorkNC G3, the third generation of SESCOI's automatic CAM/CAD software, will be demonstrated on the SESCOI booth. The system features a new ergonomic integrated interface which combines design, analysis, CNC programming, toolpath editing and simulation, as well as new toolpath algorithms for smoother cutterpaths and 5-axis machining. WorkNC includes dedicated 5-axis routines for blade and impeller machining as well as its Auto5, which allows for machining the deepest portions of a mold with the shortest tool possible, providing simultaneous 5-Axis functionality with the ease and flexibility of WorkNC's 3-Axis cutterpaths.

Efficient process and resource management can have a considerable impact on profitability. SESCOI will be demonstrating their WorkPLAN Enterprise ERP and MyWorkPLAN job management systems at the

# CIMdata PLM Industry Summary

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show. Moldmakers will be interested to see how both these systems can link to WorkNC CAM software enabling users to view WorkNC documentation showing details of toolpaths, machining times, calculation times and tools selected for any project. The machining time calculated by WorkNC is imported into the systems to enable the creation of an accurate cost budget.

Both management systems also offer a fully integrated CAD Analyzer enabling the extraction and analysis of key CAD data in a range of formats such as IGES, STEP, Catia V4 and V5, UG and Parasolid. With the Analyzer tool, users can determine a range of cost related variables such as part dimensions, volumes, complexity, tool sizes required, correct fixturing, etc.

Combine this CAD/CAM data with the systems' ability to mine previous projects for comparable data using the systems' "characteristic technical criteria" – variables defining the complexity and characteristics of a project - and managers have all the information they need to copy, paste, edit and produce accurate quotations, extremely quickly.

All of SESCOI's software packages are designed with ease of use in mind. WorkNC makes programming of the most complex parts both simple and safe, while WorkPLAN Enterprise and MyWorkPLAN manage production and provide key business information from software which is easy to implement and operate.

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## ***Webinar on Aerospace Simulations Focuses on Composites***

17 April 2008

Noran Engineering, Inc. (NEi) will host a webinar titled "Analysis of Composite Structures for Aerospace Applications" on Wednesday April 23rd, 2008 at 1:30pm Eastern Time, 10:30AM Pacific Standard Time. The presentation is targeted at aerospace engineers working with composite structures who need to perform linear and nonlinear static, dynamic, and thermal analyses. The program will highlight new capabilities and advantages offered by combining the pre-post processor Femap® v9.3 with NEi Nastran™ solvers. In particular, ease-of-use in model import and model building with laminate layup definition and extensive composite material support including 2D orthotropic, 3D orthotropic, and general anisotropic. Deeper design insight is gained with capabilities like advanced failure criteria such as the new NASA LARC02 criteria and sandwich facesheet stability analysis. Sign up for the webinar is at the link <http://www.nenastran.com/femap> or for more information interested parties can call 877-NASTRAN.

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## **Financial News**

### ***ANSYS, Inc. to Release First Quarter 2008 Earnings May 1, 2008***

16 April 2008

ANSYS, Inc. expects to release its first quarter 2008 earnings on Thursday, May 1, 2008. 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.

# CIMdata PLM Industry Summary

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## CONFERENCE CALL INFORMATION:

**What:** ANSYS First Quarter 2008 Earnings Conference Call

**When:** May 1, 2008 at 10:30 a.m. Eastern Time

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

The conference call dial in number is 888-802-2266 (U.S. & CAN) or 913-312-1267 (INT'L) Passcode: ANSYS (26797)

The call will be recorded with replay at 888-203-1112 (U.S. & CAN) or 719-457-0820 (INT'L)

Passcode: ANSYS (26797)

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### ***Aspen Technology Announces Financial Results for the Fourth Quarter and Full Fiscal Year 2007 and First Quarter Fiscal 2008; Announces Selected Preliminary Financial Results for Third Quarter Fiscal 2008***

14 April 2008

- Files Fiscal 2007 10-K and First Quarter Fiscal 2008 10-Q with SEC
- Completes Previously Announced Restatement of Prior Period Results
- Announces license bookings of \$63 million for the quarter ending March 31, 2008, an increase of 31% on a year-over-year basis

Aspen Technology, Inc. announced that it has filed its Annual Report on Form 10-K for the fiscal year ending June 30, 2007, including the previously announced restatement of prior period results. In addition, the company has filed its Quarterly Report on Form 10-Q for the first quarter of fiscal 2008, ending September 30, 2007.

Brad Miller, Chief Financial Officer of AspenTech, said “We are pleased to bring approximately nine months of comprehensive review of our financial accounts to a close with the filing of our fiscal 2007 10-K and first quarter fiscal 2008 10-Q financial statements. Our work included a detailed examination and restatement of prior financial statements, as well as a review of all significant accounting policies and processes. Although it took longer than expected, we believe it was in the long-term interest of our shareholders and will benefit the company as we look to scale the business in the years ahead. With this significant body of work now behind us, we are highly focused on completing our overall goal of bringing our financial statements current and becoming relisted on a national securities exchange.”

Mark Fusco, Chief Executive Officer of AspenTech, said “While the finance department has been focused on completing our financial statement filings, the company’s customer facing operations have continued to execute at a high level. Following a record fiscal 2007 performance, the company has generated year-over-year license bookings growth of 25% during the first nine months of fiscal 2008, including 31% year-over-year growth during the third quarter.” Fusco added, “The company ended the third fiscal quarter with a strong financial position highlighted by \$137 million in cash, an increase from \$132 million at December 31, 2007 and net of \$12 million used during the third quarter to retire our previously existing Key Bank secured borrowing facility. We continue to be optimistic about the company’s long-term fundamental outlook based on our industry leading domain expertise, unique suite of aspenONE solutions and solid demand in our core markets.”

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## **Fourth Quarter Fiscal 2007 Financial Results**

For the fourth quarter ended June 30, 2007, AspenTech reported total revenue of \$101.4 million, an increase of 27% from the fourth quarter of the prior fiscal year, and above the company's original guidance of \$85 million to \$89 million. Within total revenue, license revenue was \$68.0 million, an increase of 52%, and services revenue was \$33.4 million, a decrease of 4%, compared to the fourth quarter of fiscal 2006, respectively.

AspenTech's income from operations, determined in accordance with generally accepted accounting principles (GAAP), was \$24.0 million in the fourth quarter of fiscal 2007, exceeding the mid-point of the company's original guidance of approximately \$16 million and representing an operating margin of 23.7%. This compares to operating income of \$7.7 million in the fourth quarter of fiscal 2006, which represented an operating margin of 9.7%.

GAAP operating expenses in the fourth quarter of fiscal 2007 included \$3.1 million of non-cash stock-based compensation, \$1.3 million of non-cash amortization of intangibles associated with previous acquisitions, \$1.0 million in restructuring charges due to the company's continued office consolidations, and \$0.8 million in incremental auditing and professional fees associated with bringing the company's financial statements current - the combination of which reduced the company's operating margin by approximately 6 percentage points. These items reduced the prior year's operating margin by approximately 8 percentage points.

Net income was \$17.9 million in the fourth quarter of fiscal 2007. This represented a significant increase compared to net income of \$3.9 million in the same period of fiscal 2006. Preferred stock discounts and dividends totaled \$3.9 million in the fourth quarter of fiscal 2006 and zero in the fourth quarter of fiscal 2007, resulting in net income applicable to common shareholders of \$17.9 million and \$52 thousand in the fourth quarter of fiscal 2007 and 2006, respectively.

Net income per share applicable to common shareholders was \$0.19 for the quarter ended June 30, 2007, a significant increase compared to \$0.00 in the same period of fiscal 2006. Fully diluted weighted shares outstanding were 93.3 million in the fourth quarter of fiscal 2007, an increase compared to 58.6 million in the same period of fiscal 2006 due to the conversion of preferred shares to common shares in December 2006 and January 2007. The above mentioned stock-based compensation, amortization of intangibles associated with previous acquisitions, restructuring charges, and incremental professional services fees had a net, negative impact of \$6.2 million in the quarter ended June 30, 2007, or \$0.07 per share, and \$6.0 million in the quarter ended June 30, 2006, or \$0.10 per share.

## **Fiscal Year 2007 Financial Results**

For the fiscal year ended June 30, 2007, AspenTech reported total revenue of \$341.0 million, an increase of 16% from fiscal 2006. Within total revenue, license revenue was \$199.8 million, an increase of 30%, and services revenue was \$141.3 million, an increase compared to \$140.7 million, in fiscal 2006, respectively.

AspenTech's income from operations, determined in accordance with GAAP, was \$55.4 million in fiscal 2007, representing an operating margin of 16.2%. This compares to operating income of \$18.8 million in fiscal 2006, which represented an operating margin of 6.4%.

GAAP operating expenses in fiscal 2007 included \$11.1 million of non-cash stock-based compensation, \$6.5 million of non-cash amortization of intangibles associated with previous acquisitions, \$4.6 million in restructuring charges due to the company's continued office consolidations, and \$0.8 million in

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incremental auditing and professional fees associated with bringing the company's financial statements current - the combination of which reduced the company's operating margin by approximately 7 percentage points. These items reduced the prior fiscal year's operating margin by approximately 7 percentage points.

Net income applicable to common shareholders was \$38.2 million in fiscal 2007, which was net of \$7.3 million in preferred stock discounts and dividends. This represented a significant increase compared to a loss attributable to common shareholders of \$8.9 million in fiscal 2006, which was net of \$15.4 million in preferred stock discounts and dividends.

Net income per diluted share applicable to common shareholders was \$0.50 for the fiscal year ended June 30, 2007, a significant increase from a loss per share of \$0.20 in fiscal 2006. Weighted shares outstanding were 91.9 million in fiscal 2007, an increase compared to 44.6 million in fiscal 2006 due to the conversion of preferred shares to common shares in December 2006 and January 2007. The above mentioned stock-based compensation, amortization of intangibles associated with previous acquisitions, restructuring charges and incremental professional services fees had a net, negative impact of \$23.0 million in the year ended June 30, 2007 and \$20.8 million in fiscal 2006.

AspenTech had cash and cash equivalents of \$132.3 million at June 30, 2007, an increase of approximately \$31.5 million from \$100.8 million at the end of March 31, 2007.

## **First Quarter Fiscal 2008 Financial Results**

For the quarter ended September 30, 2007, AspenTech reported total revenue of \$64.8 million, compared to \$64.2 million in the first quarter of fiscal 2007. Within total revenue, license revenue was \$31.1 million, an increase of 11%, and services revenue was \$33.7 million, a decrease of 6%, compared to the first quarter of fiscal 2007, respectively.

AspenTech's loss from operations, determined in accordance with GAAP, was \$8.4 million in the first quarter of fiscal 2008. This compares to an operating loss of \$17 thousand in the first quarter of fiscal 2007.

GAAP operating expenses in the first quarter of fiscal 2008 included \$2.5 million of non-cash stock-based compensation, \$7.2 million in restructuring charges due to the previously announced move of the company's headquarters, and \$1.5 million in incremental professional services fees associated with completing the financial restatement. In the first quarter of fiscal 2007, the company's GAAP operating expenses included \$1.7 million in non-cash stock-based compensation, \$1.9 million in amortization in intangibles and \$1.4 million in restructuring charges.

Net loss applicable to common shareholders was \$9.0 million in the first quarter of fiscal 2008 compared to net loss applicable to common shareholders of \$5.3 million in the same period in fiscal 2007.

Net loss per share applicable to common shareholders was \$0.10 for the quarter ended September 31, 2007, which was consistent with the first quarter of fiscal 2007. Weighted shares outstanding were 89.0 million in the first quarter of fiscal 2008, an increase compared to 52.8 million in the first quarter of fiscal 2007 due to the conversion of preferred shares to common shares in December 2006 and January 2007. The above mentioned stock-based compensation, amortization of intangibles associated with previous acquisitions, restructuring charges, and incremental professional services fees had a net, negative impact of \$0.13 per share in the quarter ended September 30, 2007 as compared to a net, negative impact of \$0.09 per share in the quarter ended September 30, 2006.

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[AspenTech](#) had cash and cash equivalents of \$129.5 million at September 30, 2007, a decrease of approximately \$2.8 million from \$132.3 million at the end of June 30, 2007.

## Summary of Restatement Effects of Prior Period Financial Results

The company's Annual Report on Form 10-K for fiscal 2007 included the restatement of its financial statements for fiscal years ended June 30, 2006 and 2005, in addition to the first three quarters of the year ended June 30, 2007. On June 11, 2007, the company announced that it had identified errors related to the accounting for sales of installment receivables. In particular, it was determined that certain sales of installments receivable did not meet criteria for true sale accounting on an ongoing basis.

As a result, two new balance sheet accounts were created - Collateralized Receivables and the related Secured Borrowing liability. The restated consolidated balance sheet as of June 30, 2006 includes the recording of \$211.3 million in collateralized receivables, the related recording of \$182.4 million in secured borrowings, and the elimination of \$19.0 million in retained interest in sold receivables. As previously stated, the company views this newly reported liability as self funding, with collections of collateralized receivables servicing the liability. The company does not believe that this accounting conclusion alters its arrangements with its customers, and it has not changed its economic relationship with the financial institutions.

The summary impact to income/loss from operations related to the restatement of installments receivable, in addition to correcting other errors in the company's previously reported financial statements, was as follows:

- Income from operations improved from \$28.1 million as previously reported to \$31.4 million as restated for the nine months ended March 31, 2007;
- Income from operations in fiscal 2006 was \$18.8 million both as previously reported and as restated;
- Loss from operations in fiscal 2005 improved from a previously reported operating loss of \$70.0 million to a restated operating loss of \$59.0 million.

On February 11, 2008, the company announced it had identified errors relating to its historical accounting for income taxes for certain international tax obligations, primarily arising from transactions among consolidated subsidiaries or from revaluation of foreign currencies. As a result, the company increased tax provisions for these potential obligations in the applicable period in the amounts of \$4.1 million for the nine months ended March 31, 2007, \$3.2 million for the year ended June 30, 2006, \$6.8 million for the year ended June 30, 2005, and \$4.6 million as of June 30, 2004.

The summary impact on net income or loss as a result of the restatement was:

- Net income for the nine months ended March 31, 2007 as restated was \$27.6 million, a decrease from \$31.9 million as previously reported;
- Net income for fiscal 2006 as restated was \$6.5 million, a decrease from \$12.8 million as previously reported;
- Net loss for fiscal 2005 as restated was \$69.1 million, an improvement from \$73.6 million as previously reported.

In addition, in the calculation and disclosure of deferred tax balances, errors were identified for the book or tax accounting treatment for certain items. These errors resulted in the incorrect disclosure of components of the company's deferred taxes and the related offsetting valuation allowance within the income tax footnote. Accordingly, the deferred tax balances included in the income tax footnote and the

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offsetting valuation allowance has been restated as of June 30, 2006. As these net deferred tax assets had a full valuation allowance, the adjustments to deferred tax assets had no net impact on the company's consolidated balance sheet or statements of operations.

Ending cash balances were not affected as a result of the restatement; however, the presentation of the cash flow statement was restated. The net proceeds from the sale of installments receivable were previously classified in cash flows from operations and have been restated as cash flows from financing activities. Payments made on secured borrowings are now similarly classified as cash flows from financing activities. Annual collections relating to installments receivable that were previously transferred to a financing institution are recognized as cash flows from operations. The company did not previously recognize these collections within its cash flow statement following the transfer of the installments receivable to the financing institution.

Investors can find additional details on all income statement and balance sheet results, on a "previously reported" and "as restated" basis, in the company's Annual Report on Form 10-K for the year ended June 30, 2007.

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### ***AVEVA Period End Trading Statement***

16 April 2008

AVEVA Group plc, ("AVEVA") announced the following period end trading statement.

We are pleased with the Company's continued progress in the fourth quarter of the year ended 31 March 2008, following a particularly strong third quarter. Levels of demand have remained consistent in all of our target markets across all geographies and the Company expects full year results to be slightly ahead of current market consensus expectations.

Richard Longdon, Chief Executive of AVEVA commented: "AVEVA has performed strongly in the year to 31 March 2008. We continue to provide our clients in the Oil & Gas, Power and Marine markets with innovative solutions that allow them to deliver their projects as fast and as cost efficiently as possible in very busy market conditions."

The Company will be announcing its preliminary results on Tuesday 27 May 2008.

For further information, please consult the AVEVA website: <http://www.aveva.com/>

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### ***IBM Reports 2008 First-Quarter Results***

16 April 2008

- Diluted earnings of \$1.65 per share, up 36 percent;
- Total revenues of \$24.5 billion, up 11 percent;
- Global Technology Services revenues up 17 percent; pre-tax income up 45 percent;
- Global Business Services revenues up 17 percent; pre-tax income up 23 percent;
- Software revenues up 14 percent; pre-tax income up 22 percent;

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- 65 percent of revenues from outside the U.S.; E/ME/A revenues up 16 percent; Asia Pacific up 14 percent; U.S. up 6 percent;
- Services signings of \$10.8 billion at constant currency; \$12.6 billion at actual rates.

IBM announced first- quarter 2008 diluted earnings of \$1.65 per share from continuing operations compared with diluted earnings of \$1.21 per share in the first quarter of 2007, an increase of 36 percent as reported. First- quarter income from continuing operations was \$2.3 billion compared with \$1.8 billion in the first quarter of 2007, an increase of 26 percent. Total revenues for the first quarter of 2008 of \$24.5 billion increased 11 percent (4 percent, adjusting for currency) from the first quarter of 2007.

"IBM had a very good quarter, and a good start to 2008. These results reinforce our confidence in IBM's ability to perform well in a dynamic global economy. Our performance is a tribute to the way we have repositioned our company over the past several years, as well as the hard work of IBMers across the globe," said Samuel J. Palmisano, IBM chairman, president and chief executive officer.

"IBM is a different company today, with a number of unique advantages: our global reach and scale, our strength in profitable growth segments, strong recurring revenue and profit streams, products and services that create real value for clients, and the discipline and financial strength and flexibility that enables us to adjust our business model as conditions require.

"We feel good about the rest of the year."

From a geographic perspective, the Americas' first-quarter revenues were \$9.9 billion, an increase of 8 percent as reported (6 percent, adjusting for currency) from the 2007 period. Revenues from Europe/Middle East/Africa were \$8.8 billion, up 16 percent (4 percent, adjusting for currency). Asia-Pacific revenues increased 14 percent (3 percent, adjusting for currency) to \$5.1 billion. OEM revenues were \$696 million, down 16 percent compared with the 2007 first quarter. Revenues from the countries in IBM's growth markets unit were up 11 percent at constant currency and represent about 17 percent of the company's total revenue.

Total Global Services revenues grew 17 percent (9 percent, adjusting for currency) with strong double-digit growth in all lines of businesses. Global Technology Services segment revenues increased 17 percent (9 percent, adjusting for currency) to \$9.7 billion. Global Business Services segment revenues increased 17 percent (9 percent, adjusting for currency) to \$4.9 billion. IBM signed services contracts totaling \$10.8 billion, adjusting for currency, down 2 percent (\$12.6 billion, at actual rates, up 6 percent). Short-term signings increased 6 percent to \$5.6 billion, adjusting for currency (up 13 percent, at actual rates, to \$6.5 billion). The company ended the first quarter with an estimated services backlog, including Strategic Outsourcing, Business Transformation Outsourcing, Integrated Technology Services, Global Business Services and Maintenance, of \$118 billion, adjusting for currency, an increase of more than \$2 billion year over year.

Revenues from the Systems and Technology segment totaled \$4.2 billion for the quarter, down 7 percent (12 percent, adjusting for currency). Revenues decreased 2 percent excluding the year-to-year impact of the Printing System Division divestiture in June 2007. Systems and Technology revenues from System z server products increased 10 percent versus the year-ago period, which reflects the successful introduction of the new z10 enterprise class server. Total delivery of System z computing power, which is measured in MIPS (millions of instructions per second), increased 14 percent. Revenues from the System p UNIX server products increased 2 percent compared with the 2007 period and revenues from the System x servers were flat year over year. Revenues from the System i servers decreased 21 percent. Revenues from System Storage increased 10 percent and revenues from Technology decreased 20

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percent.

Revenues from the Software segment were \$4.8 billion, an increase of 14 percent (6 percent, adjusting for currency) compared with the first quarter of 2007. Revenues from IBM's middleware products, which primarily include WebSphere, Information Management, Tivoli, Lotus and Rational products, were \$3.8 billion, up 16 percent versus the first quarter of 2007. Operating systems revenues of \$529 million increased 1 percent compared with the prior-year quarter.

For the WebSphere family of software products, which facilitate customers' ability to manage a wide variety of business processes using open standards to interconnect applications, data and operating systems, revenues increased 20 percent. Revenues for Information Management software, which enables clients to leverage information on demand, increased 27 percent and includes growth from the acquisition of Cognos, which closed in the quarter. Revenues from Tivoli software, infrastructure software that enables clients to centrally manage networks including security and storage capability, increased 9 percent, and revenues for Lotus software, which allows collaborating and messaging by clients in real-time communication and knowledge management, increased 17 percent year over year. Revenues from Rational software, integrated tools to improve the processes of software development, increased 3 percent compared with the year-ago quarter.

Global Financing segment revenues increased 3 percent (down 3 percent, adjusting for currency) in the first quarter to \$633 million.

The company's total gross profit margin was 41.5 percent in the 2008 first quarter compared with 40.2 percent in the 2007 period.

Total expense and other income increased 11 percent to \$7.0 billion compared to \$6.3 billion in the prior-year period. SG&A expense increased 10 percent to \$5.6 billion. RD&E expense increased 4 percent to \$1.6 billion compared with the year-ago period. Intellectual property and custom development income increased to \$274 million compared with \$205 million a year ago. Other (income) and expense contributed income of \$125 million in the first quarter of 2008 versus income of \$180 million in the first quarter of 2007, which primarily reflects higher year-to-year hedging losses. Interest expense increased to \$178 million compared with \$73 million in the prior-year period, primarily due to the increase in debt to finance the company's accelerated share repurchase agreements.

IBM's effective tax rate in the first-quarter 2008 was 27.5 percent compared with 28.5 percent in the first quarter of 2007.

Shares repurchased in the first quarter were approximately \$2.7 billion. The weighted-average number of diluted common shares outstanding in the first-quarter 2008 was 1.40 billion compared with 1.52 billion shares in the same period of 2007. As of March 31, 2008, there were 1.37 billion basic common shares outstanding.

Debt, including Global Financing, totaled \$35.2 billion, compared with \$35.3 billion at year-end 2007. From a management segment view, Global Financing debt increased \$1.7 billion from year-end 2007 to a total of \$26.2 billion at the end of March 31, 2008, resulting in a debt-to-equity ratio of 6.9 to 1. Non-global financing debt, which reflects financial leverage associated with accelerated share repurchase agreements, totaled \$8.9 billion, a decrease of \$1.8 billion since year-end 2007, resulting in a debt-to-capitalization ratio of 26.4 percent from 30.0 percent. The cash balance was \$12.0 billion at the end of the first quarter.

The rationale for management's use of non-GAAP measures is included as part of the supplementary

# CIMdata PLM Industry Summary

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materials presented within the first-quarter earnings materials. These materials are available on the IBM investor relations Web site at <http://www.ibm.com/investor> and are being included in Attachment II ("Non-GAAP Supplementary Materials") to the Form 8-K that was submitted today to the SEC.

## Conference Call and Webcast

IBM's regular quarterly earnings conference call is scheduled to begin at 4:30 p.m. EDT, today. Investors may participate by viewing the Webcast at <http://www.ibm.com/investor/1q08>. Presentation charts will be available on the Web site prior to the Webcast.

Broadcast-quality clips of IBM Senior Vice President Frank Kern discussing IBM's business are available at <http://www.thenewsmarket.com/ibm>.

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## ***Moldflow to Release Third Quarter Fiscal 2008 Financial Results on May 6, 2008***

16 April 2008

Moldflow Corporation announced that it expects to release third quarter fiscal 2008 financial results on May 6, 2008. In addition, the Company will hold a conference call conducted by Roland Thomas, president and CEO, and Gregory Magoon, executive vice president of finance and CFO at 11:00 a.m. Eastern time to discuss third quarter results.

**What:** Moldflow Third Quarter Fiscal 2008 Earnings Conference Call

**When:** 5/6/08 at 11:00 a.m. Eastern time

**Where:** <http://www.moldflow.com>

Click on Investors, then Audio Presentations

The conference call dial-in number is 877-314-4022, Conference ID #43859756. The call will be recorded with replay (dial-in # 800-642-1687, Pin #43859756) which will be available until May 13, 2008.

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## Implementation Investments

### ***Altair Selected by Diehl Aerospace for 787 Cooperation***

15 April 2008

Altair Engineering, Inc. announced that [Diehl Aerospace GmbH](#), a leading supplier of aircraft systems, system solutions and equipment solutions for the aerospace industry, has chosen Altair Engineering as its simulation partner for structural analysis and weight optimization. The decision to partner with Altair followed close project collaboration between the two companies to successfully develop the 787 Dreamliner cabin lighting system.

In this project, Altair Engineering was responsible for all the simulation requirements including finite element analyses, design and weight optimization, structural concept development and load calculations using the Altair HyperWorks CAE technology suite. Altair's consulting services also included the reporting of FEA results according to FAA regulations and support during the certification process. Both

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parties plan to continue the successful partnership in future development programs.

"The 787 General Lighting System and interior airplane integration generated a new approach of mechanical development for Diehl Aerospace CCI," said Michael Wenzel, technical project manager of the 787 Lighting System at Diehl Aerospace. "Altair provided great support to this program, with reliable tools and a development staff that was highly flexible. They also contributed strongly to the project deployment with workable schedules and superior ideas."

[Altair](#) engineers leveraged HyperWorks powerful CAE technologies including HyperMesh for pre-processing, HyperView for post-processing, and RADIOSS to solve complex analysis problems to support FAA certification. In order to develop lightweight, structurally efficient systems for the Dreamliner program, Altair engineers used Altair OptiStruct to synthesize design proposals and to structurally optimize systems and components.

"The collaboration between Diehl Aerospace and Altair Engineering started in the spring of 2006," said Dr. Detlef Schneider, Managing Director of Altair Engineering, Germany. "This cooperation is now entering a new level to develop truly innovative system solutions for the aircraft industry. This valued relationship with Diehl emphasizes Altair's key market differentiator in our ability to deliver high-end consulting services together with best-in-class technology solutions. We look forward to working even closer with Diehl and the aircraft industry to meet today's and tomorrow's design challenges."

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## ***Arnold Maschinenbau Uses PTC® CoCreate® Modeling to Develop Unique Research Submarine in Nine Months***

14 April 2008

[PTC](#) announced that Arnold Maschinenbau, a German-based engineering company, has used CoCreate Modeling for the design and development of the Shark Observation Vehicle II (SOVII). CoCreate Modeling is PTC's explicit 3D CAD software, which formed the foundation for this highly iterative and exploratory design project. Arnold Maschinenbau selected CoCreate Modeling to complete its first global environmental project of developing a submarine designed for research of the great white shark.

Arnold Maschinenbau, was given less than a year to produce a submarine that could observe and document the behavior of sharks off the coast of South Africa. With this submarine being the first and only of its kind in the world, Arnold Maschinenbau was faced with creating a totally unique design. Throughout the submarine's development, key challenges included dramatically adjusting the weight of the submarine, enlarging the cabin, and completely reworking the roof. With CoCreate Modeling's explicit approach to 3D design, parts and assemblies could be created from scratch and quickly modified during design. Arnold conceptualized, designed, modified, and manufactured the salt water sub within just nine months.

"Given the aggressive time frame to completely design a unique submarine, we believe that CoCreate Modeling really was the best choice for the project," said Peter Arnold, managing director of Arnold Maschinenbau. "We had to rely on trial-and-error development and respond with changes up until the very last open water test. In my mind, such a project can only be successfully completed using the explicit modeling approach provided by CoCreate Modeling from PTC."

"Engineering companies that drive product development from initial ideas and evolving requirement specifications value flexibility and iteration speed above all else," said Ulrich Mahle, vice president of

# CIMdata PLM Industry Summary

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R&D and marketing for CoCreate products at PTC. “Arnold Maschinenbau designed an entirely unique product of global environmental significance, which required major unanticipated design changes throughout the process and quick deployment of many alternative designs. CoCreate Modeling delivered these key factors of success.”

As a result of the overwhelming success of the SOVII, Arnold Maschinenbau will again rely on CoCreate Modeling for its next project – a submarine small enough to explore the behavior of sharks in shallow water near beaches.

Arnold Maschinenbau GmbH, please visit <http://www.am-gmbh.co> or <http://www.sharkproject.org>.

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## ***IDT Uses Cadence Encounter Conformal Constraint Designer to Accelerate Time to Market***

15 April 2008

[Cadence Design Systems, Inc.](#) said IDT (Integrated Device Technology, Inc.), a leading provider of mixed signal semiconductor solutions that enable the digital media experience, was able to deliver an IDT PanelPort™ device, an innovative DisplayPort-compatible digital display receiver and timing controller device, in part due to the use of Cadence® Conformal® Constraint Designer as a SDC constraint signoff tool. By using Encounter Conformal Constraint Designer for sign-off, IDT was able to improve the quality of the design, avoid costly design iterations and accelerate time to market for this key product.

Frequently, semiconductor designers forgo the additional step of signing off design constraints, but in doing so, they risk creating an error that could jeopardize the final chip. Encounter Conformal Constraint Designer automates the generation, validation and refinement of timing constraints used in semiconductor design. By using the Encounter Conformal Constraint Designer technology as a constraint signoff tool, IDT was able to detect, analyze and correct the constraints early in the design phase.

"Cadence offered to show us how to use Conformal Constraint Designer as a sign-off tool," said Ji Park, vice president and general manager of Digital Display Operation of IDT. "Right away, the tool identified a significant issue that would likely have caused a respin. By using Conformal Constraint Designer in this manner, it is clear that the software can easily pay for itself in added value."

"IDT is an example of a company that realized significant benefits by approaching constraint signoff in a fundamentally different way, using Cadence Conformal Constraint Designer," said Yoon Kim, marketing director for the Cadence IC Digital group. "We have every confidence that a wide variety of designs can benefit from this approach, saving design time, cost and time to market."

Encounter Conformal Constraint Designer is a key technology in the Cadence Encounter digital IC design platform and Cadence Logic Design Team Solution. It enables early logic-design signoff and automates the generation, validation, and refinement of constraints to ensure that timing constraints are valid throughout the entire design process, helping designers achieve rapid timing closure. Encounter Conformal Constraint Designer is available in L and XL offerings.

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## ***Kiva Systems Uses SolidWorks Software to Revolutionize the Warehouse with Robots***

14 April 2008

Kiva Systems Inc. is using SolidWorks® 3D CAD software to revolutionize the concept of the warehouse with the company's breakthrough system of autonomous orange robots that speed around distribution centers deftly picking goods for shipping.

The Woburn, Mass., company uses SolidWorks software to design the robots as well as to array computers, scanners, and laser pointers in worker "picking stations" configured specially for each client.

The Kiva Mobile Fulfillment System's new approach to order fulfillment improves productivity, speed, accuracy, and flexibility for customers like Staples Inc., Walgreen Co., and the online shoe store Zappos.com. Workers stand in one place while the products come to them on the orange robotic drive units. Pallets, cases, and orders are stored on inventory pods that are picked up and moved by the fleet. As a result, the product can go to any operator.

When the company launched three years ago, SolidWorks was Kiva's CAD software of choice. "Our design challenges are obtaining high performance from our products at a reasonable cost," said Brett Anderson, senior mechanical engineer. "[SolidWorks](#) is the right software for the job. It simplifies custom configurations of any part or assembly, not to mention initial part design, and many of our vendors use SolidWorks themselves. SolidWorks' COSMOSWorks® design validation software helps us optimize designs for strength and material economy on many of these designs, including the robotic drive unit. SolidWorks' PDMWorks® data management software helps us manage revisions, and its eDrawings® collaboration software helps us streamline communication of ideas with engineering colleagues, marketers, and clients. SolidWorks software has the right level of power, ease of use, flexibility and value, add-ins, and support."

SolidWorks software was instrumental in helping Anderson's team develop a lift mechanism for the robotic drive unit that has meant a long-term intellectual property advantage for the company. Based on a helical ball bearing, the Kiva robot rises and falls as it spins, stopping itself at the right height for grabbing shelf units it will carry to a picking station, where workers collect and box goods for shipping. Kiva manufacturing workers also use SolidWorks software to manage bills of materials when engineering changes occur.

"Kiva vividly illustrates how the most exciting companies are using the most effective tools to develop a better way of accomplishing something that's been done the same way for decades," said Rainer Gawlick, vice president of worldwide marketing for SolidWorks Corporation. "Innovation and the execution of spectacular ideas will distinguish companies from their competitors, and the world will flock to them."

[Kiva Systems](#) uses authorized SolidWorks reseller [CADD Edge](#) for ongoing software training, implementation, and support.

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## ***Kon-Form Raises Efficiency Levels with MyWorkPLAN***

28 March 2008

Needing to replace its 20 year old ERP system, Kon-Form Werkzeuge GmbH, a tool and mold maker based in Hatzfeld-Reddighausen, Germany chose Sescoi's MyWorkPLAN job management software.

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MyWorkPLAN has been designed to suit project based manufacture so it was ideal for Kon-Form's way of working. With a considerable amount of legacy data and an existing numbering system, the company needed to be sure that MyWorkPLAN could incorporate its requirements. Matthias Richard, co-founder of Kon-Form said, "We customised the software and transferred our master data within four weeks, achieving a faultless transition to MyWorkPLAN. Anyone reasonably experienced with a computer can accomplish the same."

The company generates around 600 quotations per year and produces 40 to 50 tools. To complete a quotation, MyWorkPLAN can refer to historic data and analyse customer's drawings. Matthias Richard explained, "We can create very precise quotations based on the cost of components and predefined machining processes. We can now prepare a quotation in less than 15 minutes." Furthermore, Kon-Form can verify delivery dates by running a planning simulation to check available capacity before the tool is even ordered.

Once an order is received, Kon-Form can transfer the detailed information in the quotation to production with one mouse click. Job tracking and recording on the shop floor is achieved using touch screens. Matthias Richard said, "A short training session was all that was required to get our operators familiar with the system. It is faster, saves money and is more accurate, eliminating our previous manual data recording methods. Additionally, the availability of real-time data enables managers to see shop floor progress as it happens." Uniquely, MyWorkPLAN was able to record machine only tasks. Matthias Richard continued, "It is common for operators to start a job on a machine and then move to another task, leaving the machine running unattended. MyWorkPLAN can separate operator and machine hours very simply, which is an important tool for us."

My WorkPLAN collates all the documentation relating to a project, forming a complete archive including drawings, emails, delivery and quality documentation. Matthias Richard added, "By having the complete maintenance record for a tool we can supply our customers with the full history, including dates, reasons and names."

Kon-Form has been delighted with the support it has received from SESCOI. Requested functionality for processing partial payments was soon added. Matthias Richard commented, "I was amazed how quickly the development team responded." The company has also designed and created all its own documentation in MyWorkPLAN. Matthias Richard said, "The quality and appearance of the documentation is professional and reflects well on our company." He concluded, "The software is extremely configurable, we use our own terminology, organize the technical data to suit ourselves, customise our documentation and even add our own fields to input screens."

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## ***Leading Innovator in Bicycle Design and Engineering Selects Arena PLM to Streamline New Product Development***

16 April 2008

[Arena Solutions](#) announced that Ritchey Design Inc. (<http://www.ritcheylogic.com>) has chosen on-demand Arena PLM to streamline its current product development process, boost productivity and improve global communication and collaboration. Arena PLM will help the company speed the development and release of future products as well as enhancements to current products, including its Break-Away Bikes, a line of ultra-light, racing-quality bikes that separate so they can be packed in a standard suitcase for easy travel. Ritchey will also integrate Arena PLM with its Box Solutions ERP

# CIMdata PLM Industry Summary

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system, further streamlining company processes by linking product planning with product execution.

An early innovator of advanced bicycle design and a longtime proponent of the sport of cycling, Ritchey has always been at the forefront of the cycling market. With products becoming increasingly complex and plans to ramp up the frequency of new product introductions (NPIs), Ritchey decided to modernize its design-through-manufacturing processes by replacing its manual methods for communication and approval -- faxes, emails and spreadsheets -- with Arena PLM. Not only will the company benefit from having its data protected by financial-grade security, but it also will gain the ability to have all product information and history -- including bills of materials (BOMs), suppliers, costs, quotes, specs, drawings, files, compliance records and much more -- tracked in a single, centralized, version-controlled product record. Ritchey employees and suppliers will be able to log into Arena PLM over the Internet, from anywhere in the world, to have real-time visibility into current product data. This will help them make better, faster design decisions, develop superior products and more quickly bring those products to market.

"Arena PLM offers us a tremendous boost in capability and efficiency. By adopting Arena PLM, we significantly reduce the time and distance challenges that result from me being in Taiwan while Tom Ritchey, our owner, is in the San Francisco Bay Area -- or on his bike somewhere else in the world. Because we can access Arena PLM online, no matter where we are or what time it is, we can communicate around 100-percent accurate data and continue moving our products forward," said Rick Hartwell, product development manager of Ritchey Design Inc. "We're all excited about using Arena PLM, knowing that collaboration from concept through production will be faster, easier and ultimately more effective with a world-class PLM system in place."

Arena Solutions offers Ritchey Design the lowest total cost of PLM ownership. Unlike traditional client/server PLM software, Arena PLM is an on-demand PLM service that is delivered over the Internet, so Ritchey has no software or hardware to buy, no expensive installations, no maintenance fees, no costly upgrades, and no incremental IT resources to hire. Because companies get up and running on Arena PLM in a matter of weeks (not months or years), Ritchey will quickly realize a positive return on investment.

"We're so pleased that industry leaders like Ritchey Design are choosing Arena PLM to help them manage mission-critical processes related to the design, and introduction of their products," said Craig Livingston, chief executive officer of Arena Solutions. "I have no doubt that Arena PLM will yield Ritchey some very positive results, not the least of which is the ability to more easily roll out high-quality products that delight even the most discerning cycling enthusiast."

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## ***Siemens PLM Software Receives Fiat Group Supplier Award***

17 April 2008

Siemens PLM Software announced that its Italy division has received the prestigious "Fiat Group Supplier Award" for its solutions and services.

The [Fiat Group](#) Supplier Award is given annually to suppliers that have delivered remarkable solutions and services related to innovative strength, project management, stringent development and outstanding co-operation. Siemens PLM Software's history with Fiat spans more than seven years during which Fiat used Teamcenter®, NX™ and Tecnomatix™, expanding and increasing its efforts into virtual product development and digital validation.

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“PLM is a key factor to our product and process development across Fiat Group Automobiles and other Group Companies and allows us to simultaneously work on shared vehicle programs between the different worldwide engineering sites,” said Gilberto Ceresa, Information & Communication Technology Fiat Group Senior Vice President. “Through Siemens PLM software we have implemented an integrated product and process environment enabling the virtual validation with dramatic prototype reductions and an increase the quality of our product. Today the development of new vehicles has to be undertaken almost entirely through virtual product development and analysis.”

“We are proud and honored to receive this acknowledgement for our efforts in supplying the best solutions and high quality service to Fiat Group Companies,” said Franco Megali, vice president and managing director, Siemens PLM Software, Italy. “We look forward to continuing our partnership with Fiat Group to support their innovative solutions and best-in-class products.

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### ***Synopsys Enables First Silicon Success for First IC Designed in Vietnam***

15 April 2008

[Synopsys, Inc.](#) announced it has enabled the IC Design Research and Education Center (ICDREC) to achieve first silicon success for the first IC designed entirely in Vietnam. The SigmaK3 digital IC was designed solely with Synopsys solutions and methodologies with the assistance of Synopsys consultants. As part of the collaboration, Synopsys trained 20 digital IC designers in Vietnam to help kick-start the country's IC design initiative.

"Achieving first silicon success on the first IC designed in Vietnam is a significant achievement, and Synopsys' solutions, methodologies and services played a critical role in helping us achieve this milestone," said Dr. Huynh Thanh Dat, vice president of Vietnam National University. "Synopsys worked closely with us to understand our process, and we attribute much of our success to this close interaction and dedicated support."

SigmaK3 is a low-cost, high-performance 8-bit RISC microprocessor suitable for a variety of electronic device applications, including liquid emission display (LED) matrix display systems, industrial robots and television remote controls. The result of a two-year effort by ICDREC researchers, SigmaK3 was designed on a leading foundry's 0.25-micron process. SigmaK3 was announced recently at the official opening of the ICDREC, which is located at Vietnam National University, Information Technology Park in Ho Chi Min City. ICDREC is the first center in Vietnam established to promote human resource development, research and technological development in the IC industry.

Howard Ko, Asia Pacific vice president for Synopsys, said, "Synopsys is committed to assisting and contributing to the growth of the IC industry in Vietnam. Our involvement in Sigma K3's tape out success is the initial demonstration of this commitment. With our leading technology, complete platforms of design tools, IP, and the expertise of our consultants in the region, we are ready to support and assist local design engineers and help accelerate the growth of the IC industry in Vietnam consistent with the vision of local community leaders such as ICDREC."

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## Product News

### ***ARM Joins Synplicity's ReadyIP Program***

15 April 2008

ARM and [Synplicity](#)®, Inc. announced the availability of ARM IP through Synplicity's ReadyIP Program, also announced today (see related release: Synplicity Launches ReadyIP Program; The Industry's First Universal, Secure IP Flow for FPGA Implementation). The ReadyIP program facilitates a vendor-independent design flow using Synplicity's industry standard FPGA synthesis and system design environments, giving designers secure access to the ARM® Cortex™-M1 field programmable gate array (FPGA) processor for quick evaluation, free of charge.

At the Embedded Systems Conference (ESC), the companies will showcase an ARM Cortex-M1 processor application, based on the AMBA® interconnect, running with peripheral IP from CAST, Inc. that was designed using Synplicity's FPGA synthesis environment. This flow includes Synplicity's new System Designer capability that facilitates easy configuration, assembly, and integration of the Cortex-M1 processor and its peripherals. ESC attendees can visit Synplicity's booth #2302 to view this demonstration and receive more information about the benefits of the ReadyIP Initiative and the Cortex-M1 processor.

"As designers increasingly turn to third-party IP to implement FPGA-based systems, it is time for industry leaders to step up with a solution that provides easier and more efficient access to the IP options available today," said Graham Budd, EVP and general manager, Processor Division, ARM. "We have been working with Synplicity for some time now, and there is obvious synergy between having a vendor independent synthesis tool and vendor independent IP to go into it. We are able to help move this effort forward by providing the Cortex-M1 processor in the Synplicity ReadyIP encrypted flow thereby, improving the design process with IP that universally targets multiple FPGA devices."

"Having strong support from industry leader ARM validates the ReadyIP solution and gives customers many benefits including easy evaluation of the company's IP before entering into licensing arrangements, significant improvement in design productivity, and industry standards to create internal IP-based design reuse practices," said Joe Gianelli, Vice President of Business Development and Strategic Alliances, Synplicity.

#### About Cortex-M1

The [ARM](#) Cortex-M1 processor is the first ARM processor designed specifically for implementation as a soft core in FPGAs. The Cortex-M1 processor targets all major FPGA devices and includes support for leading FPGA synthesis tools, allowing the designer to choose the optimal implementation for each project.

The processor implements the popular, high density 16-bit Thumb® instruction set. This enables both the processor and software footprint to meet the area budget of the smallest FPGA devices, while retaining compatibility with Thumb code for any ARM processor from the ARM7TDMI® processor upwards. Despite being the smallest processor in the Cortex family, the Cortex-M1 processor can deliver 0.8 DMIPS/MHz.

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***AspenTech Simplifies Enterprise Rollout and Management of aspenONE Using Latest Microsoft***

# CIMdata PLM Industry Summary

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## *Technologies*

16 April 2008

[Aspen Technology, Inc.](#) announced that aspenONE® version 2006.5 uses the latest Microsoft technologies to simplify IT rollout and management. The integration of aspenONE with Microsoft Windows Vista, Microsoft Office Excel, and SoftGrid® Application Virtualization supports IT standards, speeds time to deployment, and extends the reach of aspenONE within operations for improved manufacturing performance.

“aspenONE makes it possible to solve the difficult challenge of optimizing manufacturing performance in complex process industries such as energy, chemicals and pharmaceuticals. By incorporating the latest Microsoft technologies into the integrated suite of aspenONE applications, AspenTech enables process manufacturers to take full advantage of our combined technology solutions across the enterprise,” said Chris Colyer, Microsoft Director of Worldwide Manufacturing Operations.

aspenONE version 2006.5, the software solution that integrates and optimizes engineering, manufacturing and supply chain operations, takes full advantage of Microsoft’s SOA platform, reinforcing AspenTech’s leadership among process manufacturing software suppliers. Building on AspenTech’s support of Microsoft’s .NET Framework, Microsoft Office SharePoint Server and SQL Server, aspenONE version 2006.5 incorporates the following Microsoft technologies:

- Microsoft Application Virtualization. aspenONE Process Engineering now supports Microsoft Application Virtualization, an engine that turns applications into centrally managed virtual services delivered on-demand. This enables IT departments to accelerate the deployment of engineering applications by more than 50 percent. The applications are installed only once, rather than once per desktop, and can be deployed to groups of users more quickly and maintained more easily. In addition, for project-based companies and departments, virtualization also allows different versions of the same applications to run concurrently on the same machine.
- Windows Vista. The entire suite of aspenONE engineering, manufacturing and supply chain desktop products is now Windows Vista-compliant, supporting customers migrating to the new Microsoft desktop platform and industry-standard platform initiatives in all AspenTech customer IT environments.
- Microsoft Office Excel. Integration has been expanded between Microsoft Office Excel and the aspenONE Engineering Suite, allowing process industry companies to compare original design specifications with real-time performance in the plant. This enables process manufacturers to troubleshoot and catch process deviations and degradations earlier, improving manufacturing performance and efficiency.

Operations teams in more than 200 AspenTech customers are using the aspenONE Engineering Suite integrated with Excel to optimize performance between engineering and operations. Using aspenONE, a \$20+ billion international, integrated refining and marketing company created a plant performance monitoring application that links the plant’s real-time database with an aspenONE engineering model of the plant to support operating decisions. Critical plant values and model results are displayed in Excel via a table and a graphical representation of the plant. As a result of these types of integrated solutions, process manufacturers can shorten the time required to respond to performance issues, better ensure production schedules are met, and avoid customer delivery delays.

The process of monitoring plant performance has traditionally been a cumbersome, manual activity, and a struggle to do effectively. For process manufacturers to truly optimize manufacturing performance,

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they must be able to monitor the plant continuously and deliver frequent guidance to a larger operational staff that might not be familiar with modeling and simulation. The integration of aspenONE with Microsoft technologies helps to increase the effectiveness of both engineering and operations teams, while improving manufacturing performance.

AspenTech Senior Vice President of Marketing Blair Wheeler said, “Industry research shows that technology investments in manufacturing operations are exceeding spending in ERP applications. As the leader in process optimization software, we are continually looking for new ways to make it easier for customers to improve the return on their IT investments. Today’s news reinforces our commitment to support IT standards and best of breed technologies that address evolving customer needs.

“AspenTech and Microsoft have teamed up to bring the best of both worlds to the IT organizations in process manufacturing companies,” continued Wheeler. “Working closely with Microsoft, we deliver the most advanced optimization solutions on the most recognized IT platform. We look forward to continuing our strong relationship with Microsoft, united by the common goals of simplifying and streamlining manufacturing operations – helping our process manufacturing customers make better and faster decisions closer to the process, resulting in reduced costs and improving operational efficiency.”

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## ***Cimatron Continues Focus on Helping Toolmakers and Manufacturers with CimatronE Version 8.5***

14 April 2008

[Cimatron Limited](#) announced the general availability of the newly released CimatronE 8.5.

Cimatron’s CAD/CAM solutions address the entire process—from quoting through design, engineering changes, NC, and EDM programming to delivery—helping tool makers and manufacturers deliver higher quality tools and products at lower costs and shorter cycle times.

“The new version of CimatronE is another step in our ongoing effort to help toolmakers and manufacturers become more competitive by shortening production cycles and reducing manufacturing costs,” said Danny Haran, Cimatron’s CEO and President.

CimatronE Version 8.5 incorporates over one thousand product enhancements, including:

### Concurrent Engineering

Cimatron’s concurrent engineering capabilities improve productivity and collaboration and significantly compress product delivery times.

Concurrent design capabilities are built into Cimatron’s CAD applications, enabling multiple users to simultaneously work on the same assembly and shorten the design cycle. Starting with version 8.5, these concurrent design capabilities are available throughout the entire Cimatron CAD product line.

Cimatron’s support for concurrent engineering extends beyond the design phase. The integrated end-to-end design-to-manufacturing solution uses a single database that provides complete associatively and enables multiple steps of the design and manufacturing process to be performed in parallel.

### Streamlined Numerical Control

Modified NC Setup Reports: Automatically-generated NC reports facilitate the information flow between NC programmers and the shop floor, providing machine operators with detailed information that includes the tool paths, procedures, tools, and parameters for each job. Images and user-specific

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information can be added to the reports, which can be presented either online or in print.

**Automated Drill:** New operations added to the Automated Drill application include profiling of holes and threading cycles, as well as pocketing for pre-drill preparation of difficult to drill areas such as slanted surfaces. These operations can be integrated into the automated drill sequence and reused from libraries to increase efficiency and accuracy.

**5-Axis Production:** CimatronE version 8.5 features new enhancements to the 5-Axis Production application, including spiral cut milling, 3-5 Axis transformations, and advances in impeller roughing.

## Integrated CADENAS Catalogs

CADENAS PARTsolutions is now integrated into CimatronE 8.5, enabling tool makers to shorten design cycles by incorporating ready-made CADENAS catalog parts into Cimatron tool assemblies.

While the catalog functionality has long been available in Cimatron's software, the CADENAS catalogs place thousands of new standard components at the disposal of Cimatron users, eliminating many of the manual and time-consuming steps in the tool design process.

## New Advanced Die Design Capabilities

Creating intermediate binder blanking surfaces and unfolding the part on these faces is one of the most challenging tasks in the die design process. In most cases, accurate results can only be achieved after a laborious and expensive trial and error process.

Based on a finite element analysis, Cimatron's "blank on binder" enables the user to perform this task and unfold freeform shapes onto a 3D geometry with unprecedented speed and accuracy.

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## ***Collaboration Between TopSolid'Wood and Biesse***

14 April 2008

Missler Software, developer of TopSolid'Wood, has recently announced the generation of post-processors for the machines Biesse, the leader manufacturer of CNC machinery for the furniture and carpentry industry.

TopSolid'Wood is an integrated design, manufacturing and management (CAD/CAM/PDM) software specialized for wood processing. TopSolid'Wood outputs to the CNC plant floor through TopSolid'WoodCam, an integrated CAM solution which automatically produces the ISO code, via a post processor, to manufacture parts on CNC machinery. TopSolid'Wood offers unique and complete simulation of the machine tool which is vital to verify complex 5 axis tool paths.

TopSolid'WoodCam outputs to the Biesse Rover series CNC machines and can manage all machining operations from 2 ½ D, 3D, 4 and 5 axis. Many software functions exist to optimise machining operations with Biesse machines: automatic positioning of parts, assemblies and nested parts; topological analysis which permits the choice of the optimum machining operation; automatic creation of tool paths in profiling, grooving, surfacing from 2 ½ D to 5 axes and customization of machining strategies by the generation of re-usable processes for greater automation of operations.

According to Dominique Laffret, Vice-President of Strategic Relationships at Missler Software: "We are very happy to collaborate with Biesse. Missler Software's strategy is to work closely with machine tool manufacturers to ensure that our post-processor development is in line with machine developments.

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TopSolid'Wood is a completely integrated CAD/CAM solution so we need to keep abreast of all machine innovations to ensure that our software is up to date. Biesse is a leading manufacturer of machines for the wood industry on a worldwide scale and we have many customers using Biesse machines.”

On one level Missler Software provides an interface to Biesse's shop floor CAM solution BiesseWorks. For more complex machining TopSolid'Wood can directly drive Biesse machines. With top-class Biesse machines, Missler Software will provide to customers a CAD/CAM solution to drive these machines.

Missler Software and its European resellers work closely with Biesse in Europe. TopSolid'Wood was on demonstration at the Biesse booth at Ligna in May '07 and displayed at the BiesseInside in Biesse S.p.A Headquarter in October (Biesseinside, 10-13 October, Pesaro). Close collaboration also exists between Missler Software and Biesse America – TopSolid'Wood was demonstrated on the various One2One Biesse open days and on the [Biesse](#) booth at the AWFS wood trade fair which took place in Las Vegas in July 2007.

Missler Software is experiencing rapid growth in the global CAD/CAM market. For further information contact [international@topsolid.com](mailto:international@topsolid.com) or visit <http://www.topsolid.com>

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## ***Dassault Systemes Signs MOU with Argentum Engineering Design***

14 April 2008

Dassault Systèmes ([DS](#)) and Argentum Engineering Design (AED), an auto component manufacturing and designing firm, have signed a Memorandum of Understanding with the immediate goal to combine their Powertrain expertise for the Indian automotive industry.

Dassault Systèmes will contribute to Argentum Engineering Design's Center of Excellence (CoE) set up at their facility in Surajpur, near Greater Noida. The CoE will bring together Dassault Systèmes' PLM and AED's Powertrain expertise to deliver Powertrain solutions for the automotive and other transportation industries.

“In the changing global economy, India is now a major player in the automotive industry. By entering into a formal relationship with Argentum Engineering Design in India and working together at the Center of Excellence, we will provide innovative solutions tailored for Indian customers,” says Christian Nardin, President of Dassault Systèmes Asia.

“India is fast becoming a hub for automotive manufacturing and design. This agreement will drive innovation and enhance efficiency in the Indian automotive industry,” explains BVR Subbu, founder and board member, Argentum Motors Pvt. Ltd.

“In the next few years, India will become a major player in global automotive design. By setting up this Centre of Excellence and partnering with Dassault Systèmes a unique combination of partnership, AED expects to play an important role in this evolution” said Mr. Ajay Singh Founder and the Chairman of the Board of Argentum Motors Pvt. Ltd.

“The alliance between Dassault Systemes & Argentum Engineering has created that highly skilled profile which the Global customers require to attain integration and innovation platforms,” said Mr. S.D. Pradhan, CEO of Argentum Engineering Design.

Dassault Systèmes, a leader in automotive solutions for 27 years, plays a vital role in India's automobile

# CIMdata PLM Industry Summary

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sector. Major industry players like Tata Motors use its PLM solutions to manage design, engineering and production of their products. Dassault Systèmes also provides solutions to 10 other verticals including shipbuilding, industrial equipment, consumer goods, consumer packaged goods and aerospace industries.

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## ***ICAM and HMCT Group Sign Strategic Marketing Agreement***

15 April 2008

ICAM Technologies Corporation (ICAM) has signed a Strategic Marketing Agreement (SMA) with [Harbin](#) Measuring & Cutting Tool Group (HMCT Group), a leading Chinese manufacturer of measuring, cutting and CNC machine tools, to collaborate on strategic marketing initiatives as well as to promote each company's respective products within the NC manufacturing marketplace.

Additionally, under the terms of this agreement, ICAM and HMCT Group will share technical product information in order for ICAM to develop advanced NC post-processors for HMCT Group's new generation Parallel Kinematics machining center, LINKS-EXE700.

The Parallel Kinematics technology enables the X, Y and Z axes motions to be performed by three or more parallel axes; thereby, allowing the LINKS-EXE700 to combine the flexibility and envelope inherit to robotic machines with the accuracy and rigidity of traditional machine tools. The LINKS-EXE700 is ideally suited for the aerospace, automotive and heavy equipment industries where agile and high-speed machining applications are required.

All post-processors developed for HMCT will be created using ICAM's NC post-processing development software product, CAM-POST®. CAM-POST is an advanced independent NC post-processing development, management and deployment technology supporting all major CAD / CAM / PLM systems, CNC controllers and machine tools.

CAM-POST also supports sophisticated multi-axis machining applications and techniques such as high-speed machining, tool-tip programming, coordinate frame transformations, NURBS interpolation and arc fitting of point-to-point data.

“[ICAM](#) was selected by HMCT, because of their vast knowledge with developing NC post-processors for sophisticated machine tools similar to the LINKS-EXE700 Parallel Kinematics machining center.” said Hualiang Wei, HMCT's President. “Additionally, ICAM's post-processors are compatible with the most widely used CAD / CAM systems in the industry; thereby, allowing our customers the flexibility to choose and to add additional CAD / CAM systems without the need to replace their existing ICAM posts.”

“We are pleased to develop post-processors for HMCT.” says Sam Chehab, ICAM's VP, Sales and Marketing. “ICAM has been at the forefront of the NC manufacturing software industry developing advanced posts for innovative machines such as the LINKS-EXE700 for over three decades and we are confident that HMCT customers will obtain high-quality posts that will maximize their machine tool investment, while improving their overall manufacturing process efficiency.”

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## *Key RF Technologies From Cadence Qualified for TSMC 65-Nanometer Node*

14 April 2008

Cadence Design Systems, Inc. announced the qualification of Cadence® QRC Extraction and Virtuoso® Passive Component Designer for the TSMC 65-nanometer process design kit (PDK).

The newly qualified technologies deliver tested and proven inductance, substrate extraction and passive component design. Cadence QRC Extraction handles parasitic inductance and substrate extraction, while the newly released Virtuoso Passive Component Designer technology tackles inductor synthesis, analysis and modeling. In June, Cadence and TSMC introduced a TSMC CompatibleSM 65-nanometer RF PDK using the new Cadence Virtuoso custom design platform, and accompanying downloadable RF, analog and mixed-signal (RF and AMS) design-flow demonstration packages for wireless designers.

The Cadence technologies were qualified as part of the new TSMC Electromagnetic (EM) Tool Qualification Program, which targets TSMC 90- and 65-nanometer process technologies. The program ensures greater electromagnetic accuracy for high-speed digital clock circuits and high-frequency mixed-signal RF design flows.

"Validation of Cadence technologies on our 65-nanometer process node enables designers to build single-chip wireless applications by integrating RF transceivers and synthesizers on to the same SoC with digital baseband and application processors," said Tom Quan, deputy director of Design Service Marketing at TSMC.

Baseband circuits, microprocessors and memories move to the most advanced CMOS process node available. To enable wireless system on chip, RF transceivers and frequency synthesizers must be implemented on the same process. Using Cadence QRC Extraction sign-off accurate modeling of the substrate and RLCK extraction of interconnects, RF designers can increase first-pass silicon success and reduce the cost of over design. What-if analysis with noise contour maps enables designers to rapidly experiment with different placement alternatives of RF blocks in the vicinity of noisy digital circuits.

The TSMC 65-nanometer PDK includes scalable inductor and transformer models validated with Virtuoso Passive Component Designer. Model accuracy has been verified to be within a few percent of measurements for inductance, quality factor and self-resonance frequency. Designers are no longer confined to a limited set of PDK inductors. Starting from design specifications such as inductance and quality factor, RF designers can create their own inductors and transformers in Passive Component Designer using scalable parameterized cells provided in the TSMC PDK. The new technology reads TSMC 65-nanometer rule files and synthesizes components that are DRC- and LVS-clean and ready for Cadence QRC Extraction analysis. The Virtuoso Passive Component Designer supports 65-nanometer effects such as bias, erosion, metal fills and slotting.

"[Cadence](#) offers a complete RFIC design flow that combines system design, RF component design, circuit design, simulation, layout and physical verification," said Sandeep Mehndiratta, product marketing director at Cadence. "Cadence QRC Extraction now delivers the most comprehensive parasitic extraction, which includes accurate self and mutual inductances, as well as silicon-proven substrate effects extraction solutions—both critical for RF post-layout verification. Virtuoso Passive Component Designer enables designers to create custom inductors and transformers to meet their design specifications."

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## ***Lattice Technology Releases XVL Player***

15 April 2008

Lattice Technology, developers of the XVL suite of 3D publishing applications, announced that XVL Player Version 9 is now available for free download at <http://www.lattice3d.com>.

XVL Player is a free viewer with full 3D visualization capabilities such as rotate, pan, and zoom, which allow users to view parts and assemblies in the ultra compressed XVL format that have been generated from CAD or edited with XVL Studio. XVL Player has been widely adopted throughout the manufacturing industry as an easy means for non-CAD operators to view and explore 3D models from any PC. To date, more than 500,000 copies have been downloaded since its debut in 2000.

The measurement, cross-sectioning and advanced viewing features -- in the past only available on the licensed version of XVL Player Pro -- are now included free in XVL Player 9. These functions allow users not just to view models, but also add information commonly used in the downstream processes of manufacturers. In addition to the viewing features, users can create dimensions and profiles for 3D objects or view previously defined snapshots and positions or set its properties to refer to other documents.

With the 9.1 release expected in May, additional free features will be added including animation controls to play process animations. These added amenities are expected to greatly expand the usage of XVL Player, since companies can now employ the free viewer to handle a wider variety of post-design processing tasks. Examples include the testing of an assembly's feasibility in a manufacturing technology division, or the confirmation of part dimensions for a customer quote in a procurement division. Both tasks can be done immediately through the viewer, eliminating the need for a CAD operator to make changes or look up information.

Lattice Technology further expects an increase in the amount of collaboration using 3D data, both within a company, and among its suppliers and clients. Outside parties simply need to download the free Player. XVL-compressed 3D models are lightweight enough to be easily emailed, so suppliers, partners, and customers can participate in discussions about the details of components and assemblies without any added software costs.

“Our expansion of features in our free offering is based on the idea that XVL Player Ver.9 will expand dramatically throughout organizations that use XVL,” says General Manager Bill Barnes. “This will make the Lattice product family, including XVL Studio, XVL Web Master and Lattice3D Reporter even more valuable.”

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## ***LMS Adds More Advanced Process Integration to its Unique GVT Solution***

15 April 2008

LMS introduced its extended solution for Ground Vibration Testing at the Aerospace Testing, Design & Manufacturing Expo in Munich, Germany. LMS offers an integrated solution and advanced engineering services to help aerospace manufacturers achieve shorter testing times while increasing test observability and overall quality for Ground Vibration Testing (GVT). Based on extensive cooperation with leading aircraft manufacturers from all over the world, LMS has developed a unique approach combining simulation and physical testing to accelerate and optimize the complete testing cycle – from test preparation and modal testing to modal analysis, numerical model correlation and model updating.

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The aerospace industry is continuously under pressure to develop lighter components, systems, aircraft and spacecraft in shorter time cycles and at lower cost - without compromising quality or safety. On one hand, engineering teams must reduce testing time while increasing data quality and accuracy. On the other hand, they still need to ensure the structural integrity of the aircraft or spacecraft and other critical components.

The integrated GVT solution from LMS addresses these productivity challenges. It reduces the risk involved in GVT testing campaigns, while shortening the total test lead time. The LMS GVT solution also includes multiple excitation, modal validation and non-linear behavior assessment techniques, which dramatically increase modal behavior observability. This allows testing teams to efficiently and reliably identify all the critical modes in the aircraft, which is one of the key GVT objectives. The LMS GVT solution is based on the LMS Test.Lab testing and analysis software suite and a series of interconnected LMS SCADAS III data acquisition front-ends adding up to over 1,000 channels. The solution includes test instrumentation management, a full set of complementary excitation and acquisition techniques, advanced modal analysis technology, data management and reporting tools.

LMS complements its integrated GVT solution with advanced simulation solutions. This reduces the risk of missing critical modes during the physical test since they can be identified upfront on a simulation model long before the test structure instrumentation. By integrating test and simulation, LMS offers an opportunity to use Finite Element (FE) models to guide the test and validate the test result quality. In addition, test results are directly applied to correlate and validate FE models during GVT execution. This allows testing and analysis teams to agree on the acquired data on the spot and confidently proceed to next phase of the test campaign.

LMS also offers dedicated engineering services for GVT, based on a unique combination of engineering skills, development experience and GVT application know-how. LMS references for Ground Vibration Testing include AgustaWestland, BAE Systems, Cessna, CIRA, CSA, DLR, EADS CASA Military Transport Aircraft Division, EADS Space Transportation, Lockheed Martin, National Aerospace Laboratory, NASA, Raytheon, RKK Energia, Saab Aircraft, Sikorsky, Tsagi, and Tupolev among others.

For more information about LMS Test.Lab, visit <http://www.lmsintl.com/testlab>

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## ***Mentor Graphics Accelerates “Smart” User Interface Innovation with Nucleus Software Platform for Atmel Microcontrollers***

15 April 2008

Mentor Graphics Corporation announced a software platform based on the Nucleus® Operating System (OS) that is integrated, validated and optimized for Atmel® AT91SAM9 ARM926EJ-S™-based microcontrollers. Unlocking the full performance of Atmel silicon, the platform provides developers with an out-of-the-box foundation upon which to more rapidly and cost-efficiently create, integrate and deliver innovative “smart” user interface applications.

“Mentor Graphics’ Nucleus-based platform takes significant time and risk out of software development for Atmel customers,” said Neil Henderson, general manager, Mentor Graphics Embedded Systems Division. “Now developers can start with a validated working system from day one, allowing them to fully focus on their value-add--building innovative applications with highly-functional, media-rich user interfaces, or modifying existing ones without changing the code.”

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The Atmel AT91SAM9 ARM9-based microcontrollers target smart control panel solutions across a broad range of applications. These include white goods, medical, printing, security systems, Internet tablets, electronic books, ATM machines, game pads and remote controls. The Nucleus-based platform offers a complete and robust development environment enabling application developers to deliver a quality user experience with less time and effort. Supported on Atmel's SAM9261, SAM9261S, SAM9263 and SAM9RL64 MCUs, demos running on the respective evaluation kits are available for download from Mentor's web site.

"Atmel is addressing the growing market need for smart control panels in control applications featuring graphical representations, access to electronic user guides and touch screens or capacitive sensing, technologies pioneered in portable media players and smart phones. With Mentor Graphics, we deliver a fully integrated off-the-shelf hardware/software platform to application developers," noted Jacko Wilbrink, ARM product marketing director for Atmel. "The Nucleus OS platform with its small footprint and rich multimedia capabilities leverages the high-bandwidth architecture and the robust set of peripherals on our AT91SAM9 ARM9-based microcontroller family, offering a very competitive cost/performance combination."

## Nucleus Software Platform Cuts Development Time

Traditionally, implementing interfaces with audio and video content and advanced visual effects such as animation and one-click re-theming required weeks of development effort. With the Nucleus platform's full-featured real-time operating system and advanced UI engine, such user interfaces can be built, tested and modified rapidly with drag-and-drop tools and deployed without any modification to the underlying software stack.

To enable application software development by in-house teams or independent software vendors, the Nucleus platform is complemented by end-to-end tools including a C++ compiler, debugger, profiler, drag and drop UI designer and host simulation environment, as well as a JTAG probe.

## Mentor Graphics at Embedded Systems Conference in Silicon Valley

To find out how Mentor's Nucleus software platforms enable the delivery of electronics products in less time and with lower cost, visit us at ESC Silicon Valley, San Jose Convention Center, April 15-17, Booth #716.

## Availability and Pricing

Nucleus OS platform solutions are available immediately. For more information and pricing for Mentor Graphics embedded solutions, please call 1-800-547-3000 or e-mail [embedded\\_info@mentor.com](mailto:embedded_info@mentor.com). To learn more about Atmel Corporation microcontrollers, visit <http://www.atmel.com>.

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## *New FLUENT for CATIA V5 Extends CFD Modeling Capability*

17 April 2008

ANSYS, Inc. announced the release of version 4.0 of its FLUENT® for CATIA® V5 rapid flow modeling software. This new release delivers computational fluid dynamics (CFD) technology from ANSYS to engineers working within Dassault Systemes CATIA V5 software environment. In addition to performance improvements, this release of FLUENT for CATIA V5 adds important new physics models to its analysis capabilities that extend the types of products for which performance optimization

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is possible. The technology is a prime example of the ANSYS ongoing commitment to an architecture that adapts to the customer's requirements: developing integral tools for use by the world's leading simulation community, no matter their choice of computer-aided design (CAD) or product lifecycle management (PLM) packages.

Species transport and cavitation modeling capabilities are key new features of version 4.0 that significantly broaden the range of applications available to users. The new species transport model allows the modeling of mixtures of fluids with different properties. This expands the types of equipment that can be optimized to include paint mixers, fire risk detection, airplane cabin ventilation, water treatment systems and the dispersion of exhaust gases. The new cavitation modeling feature lets users predict when cavitation may occur in a variety of systems. It allows performance optimization of fuel injectors used in car and motorcycle engines. It also lets users see when cavitation may occur in rotating pumps, enabling them to make design modifications to reduce the blade erosion that may result. New heat transfer boundary conditions let automotive companies model the cooling of brake rotor disks, to ensure that optimum braking performance is maintained under all conditions.

Version 4.0 brings many new important performance and usability improvements. The ability to add multiple symmetry planes without the need to modify original geometry saves users time, both while creating the model and when performing the calculations. Superior flow volume splitting algorithms benefit users who model automotive radiators and other complex geometries. A new algorithm to build prismatic boundary layer meshes next to solids increases the simulation accuracy; an example is the air flow around car wheels. Other general improvements include an optimized memory management system to handle large models efficiently and new options that let users easily control the initial conditions for unsteady calculations. These enhancements reduce the time to solution and improve simulation process robustness.

"With the newly added features of version 4.0, FLUENT for CATIA V5 enables users to improve designs quicker than ever using the power of technology from ANSYS. No other engineering simulation software provider offers such depth and breadth of technical capabilities," said Ferit Boysan, vice president and general manager of the fluids business unit at ANSYS, Inc. "FLUENT for CATIA V5 is unique in the industry because the embedded high-fidelity FLUENT 6.3 solver provides the engineering organization full upward scalability of their simulation process."

Version 4.0 of FLUENT for CATIA V5 is available for immediate shipment. Additional product details and demonstrations are available at <http://www.fluentforcatia.com>.

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## ***Oracle and Satyam Computers to Co-Develop Business Process Integration for Product Lifecycle Management (PLM)***

15 April 2008

Oracle and [Satyam](#) Computer Services, Ltd announced a co-development agreement to build Oracle Application Integration Architecture (AIA) Process Integration Packs for Enterprise Product Lifecycle Management (PLM).

Satyam will collaborate with Oracle's application development teams to create an enterprise PLM integration solution between Oracle's Agile PLM and Oracle E-Business Suite solutions.

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The PLM Process Integration Pack will enable rapid implementation of Oracle's next generation integrated enterprise PLM processes and will help customers in reduce the cost and risk associated with typical third-party and custom integrations.

Since the launch of the Oracle Application Integration Architecture (AIA), Oracle continues to see strong AIA momentum across its partner ecosystem, with major Systems Integrator (SI) partners, such as Satyam, making significant investments in strategic co-development efforts.

With Oracle AIA, SIs are able to build their own integration solutions using the AIA Foundation to promote a consistent and Service-Oriented Architecture based approach to business process integration across Oracle and third-party applications. This enables them to generate additional business and technical consulting revenue through integration; obtain technical strength and insight for Oracle AIA through training, development participation and validation programs; and increase revenue opportunities with differentiated, low cost, fast pace and sustainable service offerings.

## Industry's First Open Standards-Based Process Integration Pack for Enterprise PLM

The Oracle and Satyam pre-built Process Integration Pack will include core capabilities that support the new product introduction processes within Oracle Agile PLM and Oracle E-Business Suite.

Core functionality of the Process Integration Pack will include:

- \* Manufacturing Release of new product definition and product launch
- \* Change Management of previously launched products
- \* Bi-directional synchronization of Engineering Change status and material attribute information, from Manufacturing to PLM
- \* Tracking and monitoring of the change processing queue
- \* A robust error-handling and notification framework

## Supporting Resources

- [Oracle Agile PLM](#)
- [Oracle Partner Success Stories](#)
- [Oracle Application Integration Architecture \(AIA\)](#)
- [Oracle AIA for Partners](#)
- [Oracle AIA FAQ](#)
- [Oracle AIA Data Sheet](#)

## Supporting Quotes

"Through our AIA initiative, we are able to work collaboratively with our partners to rapidly develop business process integrations that strengthen the business value of our customers' deployment "of Oracle and third-party applications," said Jose Lazares, Oracle Vice President, Applications Development."Working closely with Satyam we are able to extend the value of the robust enterprise PLM capabilities of Oracle's Agile solution and realize our vision of a truly integrated enterprise PLM solution that draws upon Oracle's existing strengths in ERP, SCM and CRM and the strong integration

capabilities of Oracle Fusion Middleware."

"The Application Integration Architecture for Partners Initiative enables us to work closely with Oracle to leverage our domain knowledge and industry best practices to create business critical, end-to-end solution for our joint customers," said Sriram Papani, Senior Vice President and Head of the Oracle Practice at Satyam. "This co-development effort extends our go-to-market partnership with Oracle while allowing us to deliver a faster, less expensive implementation featuring packaged PLM integrations and expert services."

\*As of Dec. 31, 2007

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## ***Oracle Expands Enterprise Product Lifecycle Management Offerings***

15 April 2008

As another milestone for Oracle's "Applications Unlimited" program, Oracle announced the latest versions of Oracle's Agile Product Lifecycle Management (PLM) 9.2.2.4 (formerly known as Agile 9) and Oracle's Agile PLM for Process 5.2 (formerly known as Prodika).

These new releases further Oracle's strategy and commitment to evolving Oracle's Agile PLM product roadmap and are based upon customer-driven enhancements, a superior ownership experience and comprehensive industry best practices for enterprise PLM processes.

"Applications Unlimited" is Oracle's long-term plan to protect customers' current investments while providing continued enhancements and lifetime support to current Oracle® Applications.

### **Deeper Industry Processes**

As companies are under increased pressure to deliver economical, reliable and versatile products, mechatronics support has become vital as it enables manufacturers to manage integrated design information across all types of components including mechanical, electronics and software.

The latest version of Oracle's Agile PLM now delivers mechatronics support and enhancements to enable high-tech and industrial manufacturers to better manage complex, multi-type design objects and benefit from seamless integration capabilities to design systems including mechanical CAD, electronics CAD and software.

Oracle's Agile PLM also enables engineering collaboration, visibility and control of design information through the product lifecycle both internally and externally.

For process manufacturers and private-label retailers within the food and beverage, health and beauty and household and care products industries, Oracle's Agile PLM for Process provides enhanced, deeper formulation capabilities, including prototype traceability, calculated attribute support, label and ingredient statement tools and nutritional and compliance reporting. This latest release also has additional support for extended data in collaboration and formulation with tighter security to enable collaboration with supply chain applications and protection against counterfeits and copycats.

### **Customer-Driven Enhancements and Superior Ownership Experience**

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The new release also leverages Oracle Fusion Middleware for reporting using Oracle Business Intelligence Publisher and Oracle Data Integrator, further enhancing Oracle's Agile PLM differentiation in enabling decision support analytics and reporting across enterprise PLM functions.

Oracle's Agile PLM now includes customer-driven enhancements across product quality management, product portfolio management, product compliance management and product cost management.

Oracle's Agile PLM for Process now enables a lower total-cost-of-ownership with additional self-service capabilities, simplified configuration, extensibility, extensible reporting and better integration APIs.

Utilizing Oracle's Application Integration Architecture (AIA), the open, standards-based approach to enterprise integration, Oracle is laying the foundational roadmap to provide out-of-the-box, composite enterprise PLM processes to integrate with the Oracle E-Business Suite, Oracle's JD Edwards applications and SAP applications.

## Supporting Quote

"We continue to remain committed to evolving Oracle's Agile PLM product lines to give our manufacturing customers access to deeper, out-of-the-box industry best practices and next generation enterprise PLM capabilities across engineering, design and manufacturing systems," said Oracle Vice President, PLM Product Strategy Hardeep Gulati. "Our clear product roadmap and collaboration with new and existing customers continues to position us for ongoing momentum in the Enterprise PLM space."

## General Availability

Oracle's Agile PLM for Process 5.2 is currently available. Oracle's Agile PLM 9.2.2.4 is scheduled to be available in May 2008.

## Related Resources

[About Oracle's Agile PLM](#)

[About Oracle's Agile PLM for Process](#)

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## *SAP AG Certifies Latest CONTACT Software ERP Interface*

16 April 2008

CONTACT Software GmbH has been a SAP AG Software Partner since 1997. In the course of its ongoing development strategy, the Bremen-based company recently had its PDM/PLM CIM DATABASE interface with SAP's® ERP system software re-certified. The test procedure in Walldorf was performed according to a "Cross Application – Product Life-Cycle Management" scenario encompassing the categories Computer Aided Design, Document Management, Product Data Management and Product Lifecycle Management. In each of these categories, the CIM DATABASE Gateway for SAP® supports the validated, bi-directional reconciliation of data and documents between both platforms and now bears the "SAP® Certified Integration" certificate. CONTACT's latest interface is available for the versions SAP® R/3 Enterprise 4.7, SAP® ERP ECC 5.0 and 6.0.

Integration development and layout were performed in close collaboration with IDS Scheer AG's

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Product Lifecycle Management and Automotive Business Development departments. With the CIM DATABASE Gateway for SAP®, CONTACT Software addresses enterprises that value both the integral development of the virtual and physical product and the support of collaborative design processes.

## **Best-in-Class Strategy**

ERP developers like SAP respond with component-orientated architectures to customer demand for flexible and dynamic composite solutions. The business prerogative and highly interoperable component and SOA-based solutions such as SAP NetWeaver® underline such an approach.

Functionality, flexibility and integration in SAP are based on the SAP-PLM interface and the CIM DATABASE services Shared Object Management and ERP ACCESS. These services deliver complete data just in time from the product development process to product planning and logistics in SAP.

Such a best-in-class strategy comprehensively supports the complete product history according to Product Lifecycle Management (PLM) specifications: from project definition, development and production right down to operation, servicing and end-of-life recycling. Thanks to the deeply embedded PDM/ERP application environment, cost-related parameters like stock levels or material prices may be accounted for in the early development stages and production-related data forwarded to downstream services such as production engineering and quality assurance (QA) in due time. This enables a cost-conscious and production friendly product design, linked with a markedly improved reduction of start-up costs and stock outages.

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## ***Siemens PLM Software Adds Logistics Records Management to Comprehensive Teamcenter for MRO Solution***

15 April 2008

[Siemens](#) PLM Software announced the addition of an integrated logistics records management capability for its comprehensive Teamcenter® for MRO (maintenance, repair and overhaul) suite of software. By integrating logistics planning with the same single source of product and process knowledge shared by engineering, manufacturing and service, Teamcenter delivers full PLM – from requirements to retirement – for aerospace and defense manufacturers, system integrators and any industry that is applying formal logistics planning for product support.

Siemens PLM Software made the announcement in conjunction with its participation at Aviation Week's MRO 2008 Conference & Exhibition in Fort Lauderdale, Fla.

“We've been working with Siemens PLM Software since 2006 when we selected Teamcenter as the foundation for our corporate-wide PLM initiative known as Through Life PLM,” said Graham Malley, PLM Programme Manager at BAE Systems Military Air Solutions. “With its in-service support definition capability, Teamcenter is the only system we've seen to integrate engineering, logistics and sustainment into a single product knowledge backbone under configuration control. As a result, we will be able to retire a number of our current logistics applications and consolidate on a single software environment. This will greatly facilitate working as an integrated product team while supporting the closed loop processes associated with contractor logistics support (CLS) contracts such as the one linked to the Eurofighter Typhoon aircraft.”

Logistics management as part of the PLM continuum

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Historically, logistics data has been created and managed in a range of specialized niche solutions. Interaction between these solutions is typically done manually by highly trained logistics personnel. The resulting process is cumbersome and not well suited to managing change.

Teamcenter's logistics records management solution integrates this functionality and the associated logistics data and processes into the overall PLM continuum. Using structures compliant with previous, existing and evolving standards such as MilStd 1388, Def Std 00-60 and GEIA-STD-0007, Teamcenter enhances data integrity and processes with integrated change and configuration management, providing rapid and accurate collaboration across all disciplines in the product lifecycle within a single source of knowledge.

Teamcenter's integration of engineering, logistics and sustainment ensures design for supportability is addressed as an iterative process between engineering and logistics during the design of the main equipment; and that asset maintenance and routine servicing tasks can be performed easily with existing tools and techniques. In addition, design of the support solution itself – including support and test equipment, facilities, storage and transportation – is addressed as part of the product design phase. Finally, Teamcenter ensures proper determination of provisioning and the initial support package. This includes enabling the requirement for spares, special tools and documentation to be defined, together with the quantities required to be procured and delivered to support the operation of the main equipment.

“Teamcenter has been established as the world's most widely used PLM platform due in large part to its unique ability to manage all phases of a product's lifecycle from concept to retirement,” said Steve Bashada, vice president of Teamcenter Applications, Siemens PLM Software. “By providing our customers with an integrated logistics records management solution, we are continuing this strategy and further enhancing our support for aerospace and defense as well as all our customers involved in logistics planning.”

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## ***Si2 Releases Common Power Format Relational Analyzer Tool***

14 April 2008

Silicon Integration Initiative ([Si2](#)) announced the availability of a Common Power Format Relational Analyzer tool that will allow users of Si2's CPF standard to analyze the design intent for a low-power design and examine the current state and relationships among the CPF data objects. The CPF Relational Analyzer is also useful as a training aid to learn/understand CPF, as an aid to ease the adoption process and as an analysis tool in the IC design process.

The CPF Relational Analyzer was developed by the in-house Si2 engineering staff, and is based upon the Low Power Coalition's data model work. The Analyzer includes a relational database, and supports SQL-like queries on all the data objects and the many relationships between data objects. The Analyzer is built using Tcl/Tk scripts which interface directly to other EDA applications, thus allowing tighter integration into the design flow. The CPF Analyzer supports designs of any complexity or size, and includes an easy-to-use interactive GUI with extensive search and report features.

“The CPF Analyzer joins other useful adoption tools such as the CPF Parser, the CPF Pocket Guide, and the CPF Tutorial,” said Steve Schulz, president and CEO, Si2. “The goal of these tools is allow chip designers and developers to easily adopt CPF for rapid benefit to low-power designs and flows.”

The CPF Relational Analyzer is available to all members of the Low-Power Coalition. It will be

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demonstrated at the 12th Si2/OpenAccess+ Conference on April 16 in San Jose. Details on the conference are located here: <http://www.si2.org/?page=934>.

The CPF standard was approved and made publicly available in March of 2007, and since then has achieved wide acceptance in terms of EDA tool adoption, use in end-user tool flows, actual chip tape-outs and subsequent testimonials, and adoption into major foundry reference flows. CPF is supported not only by the Low Power Coalition, but also the Power Forward Initiative, <http://www.powerforward.org>.

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## ***Synopsys Delivers Industry's First Certified USB 2.0 PHY IP for Advanced 45-Nanometer Process***

15 April 2008

Synopsys, Inc. announced that its DesignWare® USB 2.0 nanoPHY is the first 45-nanometer (nm) USB 2.0 PHY intellectual property (IP) to successfully pass the USB Implementers Forum Hi-Speed USB PHY certification. Synopsys' USB 2.0 nanoPHY mixed-signal IP, now available in the 45-nm process node, uses half the power and die area compared to previous USB PHY IP solutions and enables faster time-to-market with reduced risk.

The DesignWare USB 2.0 nanoPHY IP is targeted for a broad range of high-volume, mobile and consumer applications where the key requirements include minimal area and low power consumption. This IP addresses these key requirements by implementing an architecture that provides an effective combination of small area, low power consumption and minimal leakage. In addition, the DesignWare USB 2.0 nanoPHY IP has built-in tuning circuits that enable quick, post-silicon adjustments to account for unexpected chip/board parasitics or process variations without the need to modify the existing design. This feature allows designers to increase yield and minimize the cost of expensive silicon re-spins.

The DesignWare USB 2.0 nanoPHY is part of the complete USB 2.0 IP solution from Synopsys, which includes the USB 2.0 digital controllers, PHY and verification IP. Synopsys offers a comprehensive portfolio of USB IP for 180-nm, 130-nm, 90-nm, 65-nm and now 45-nm process technologies. The DesignWare USB IP products have been certified in hundreds of USB applications and are shipping in high volume production.

"As the technology leader of USB IP for six years in a row, Synopsys provides designers with low-risk, high-quality USB PHY IP solutions that are silicon-proven and certified" said John Koeter, senior director of marketing for IP and Services at Synopsys. "Our strong engineering investment, as demonstrated by being first to 45-nanometer certification, enables designers to rely on Synopsys for their USB PHY IP needs, whether they are implementing a design in a mature 180-nanometer process technology or developing the most advanced 45-nanometer ASIC."

### Availability

The logo-certified DesignWare USB 2.0 nanoPHY IP for the 45-nm process is available now. In addition, the USB 2.0 nanoPHY for the 40-nm process is currently scheduled to be available in the second half of 2008. Please contact Synopsys for specific foundry support.

The complete DesignWare USB 2.0 solution, including the PHY IP (ranging from 180-nm to 45-nm), digital controllers and verification IP are also available today. For more information on the DesignWare USB IP or to take a virtual tour of the Synopsys USB IP lab, please visit:

<http://www.synopsys.com/designware>.

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## ***Synplicity Introduces System Designer: System-Level Implementation and IP Integration Tool for FPGA Design***

15 April 2008

[Synplicity®, Inc.](#) introduced System Designer™, a device-independent intellectual property (IP) configuration and system-level assembly environment that has been added to Synplicity's Synplify Pro® and Synplify® Premier FPGA design implementation tools. The System Designer™ capability allows users to select, configure and assemble internal and third-party IP delivered in the IP-XACT format, integrate that IP and then implement it into a variety of FPGA vendor devices, including those from Actel, Altera, Lattice Semiconductor and Xilinx. The new tool flow provides FPGA designers, using IP and system-level blocks, with an extremely productive path to implementing complex systems in FPGAs.

System Designer is a key component of Synplicity's ReadyIP Initiative, a program that takes aim at simplifying the access, evaluation and use of IP for FPGA-based system designs. The ReadyIP program allows users to evaluate and "try-before-they-buy" IP within their designs through System Designer using Synplicity's industry-leading synthesis tools; (see related press release: [Synplicity Launches ReadyIP Program: The Industry's First Universal, Secure IP Flow For FPGA Implementation](#)).

"As designers increasingly turn to third-party IP to implement FPGA-based systems, it is time for industry leaders to step up with a solution that provides easier and more efficient access to the IP options available today," said Graham Budd, EVP and general manager, Processor Division, ARM. "We have been working with Synplicity for some time now, and there is obvious synergy between having a vendor independent synthesis tool and vendor independent IP to go into it. We are able to help move this effort forward by providing the Cortex-M1 processor in the Synplicity ReadyIP encrypted flow thereby, improving the design process with IP that universally targets multiple FPGA devices."

"FPGAs have evolved into system-implementation vehicles by virtue of the increased density, speed, dedicated resources and the time-to market advantages that the latest generation of programmable devices provides," said Angela Sutton, senior product marketing manager, Synplicity. "The System Designer capability answers customers' needs for system-level implementation tools by allowing them, for the first time, to access IP from a range of vendors, evaluate the IP in the context of their design and then easily implement the system in their choice of FPGA," Sutton added.

The System Designer tool accepts as input IP, which complies with the SPIRIT Consortium's IP-XACT standard for describing IP, and outputs top-level RTL and a Synplify project file ready for synthesizing the complete design. Third-party IP is available to System Designer users via Web browser access integrated into Synplicity's synthesis products. Through the Synplify Pro and Synplify Premier FPGA design implementation tools, designers using the System Designer capability can browse and download IP from Synplicity partners participating in the ReadyIP program, currently ARM, CAST, Gaisler Research, and Tensilica, and thus easily evaluate various options for their FPGA designs.

System Designer is built on the open source Eclipse, a de facto standard providing for exceptional extensibility. Additionally, the System Designer capability allows Synplify Pro and Synplify Premier users to maintain and deploy internally developed system-level building blocks and components which have been converted to the IP-XACT format, and then re-use them across multiple designs and multiple generations of FPGA designs.

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"Synplicity's System Designer is a step forward for systems designers targeting FPGAs," said Graham Budd, EVP and general manager, Processor Division, ARM. "Customers will be able to download an evaluation version of the ARM® Cortex™-M1 processor and quickly configure and connect peripheral IP and then automatically generate design descriptions ready for synthesis using Synplify Pro or Synplify Premier. We believe it will be a great benefit to both FPGA system designers as well as our IP users."

"We've been working closely with Synplicity over the past year as the System Designer tool was in development," stated Steve Roddy, Tensilica's vice president of marketing and business development. "We believe that System Designer will boost designer productivity, enabling FPGA designers to focus more time on system analysis and less effort on system construction."

## Pricing and Availability

System Designer is included, at no charge, for Synplify Pro, Synplify Premier and Certify customers on active maintenance as of April 2008. It is available immediately.

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## ***Synplicity Launches ReadyIP Program: The Industry's First Universal, Secure IP Flow For FPGA Implementation***

15 April 2008

Synplicity®, Inc. announced the ReadyIP Initiative, a program that takes aim at simplifying the access, evaluation, and use of intellectual property (IP) for FPGA-based system design. The ReadyIP program delivers the industry's first and complete universal, encrypted design methodology for FPGA implementation, allowing users to incorporate and integrate IP from several third-party vendors within their designs using the Synplify Pro® and/or Synplify® Premier solutions, Synplicity's industry-standard synthesis environments.

The ReadyIP initiative comprises a number of key elements. These include standards-based IP encryption with rights management to facilitate easy evaluation of IP; the System Designer™, a new technology-independent IP integration capability that is now part of Synplicity's synthesis products (see related announcement, Synplicity Introduces System Designer: System-level Implementation and IP Integration Tool For FPGA Design); "push-button" Internet access to third-party IP directly from within Synplicity's FPGA design environment; and the use of the SPIRIT Consortium's IP-XACT IP packaging format to enable mix and match of IP from a variety of sources including the use of in-house IP.

Synplicity also announced that its ReadyIP initiative is being endorsed and supported by leading IP vendors. ARM, CAST, Gaisler Research and Tensilica are partnering with Synplicity as charter members in this new industry initiative. Selected secure IP from these vendors, that universally target multiple FPGA devices, will be available through this new program.

Synplicity believes its ReadyIP program is a big step toward providing an industry-wide, standards-based design flow for FPGA implementation using IP which benefit users because they can: 1) try IP before having to license it, 2) improve design productivity when using IP, and 3) use the standards to create their own IP-based design reuse practice.

"Synplicity's ReadyIP Program is the first to facilitate the widespread availability of IP while allowing designers to easily 'try before they buy' third-party IP," said Andy Haines, senior vice president of marketing, Synplicity. "As important, it allows a company to package its own IP and securely distribute

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it throughout an organization for design reuse and implementation using Synplicity's ReadyIP design flow." Haines continued, "We are very pleased to welcome ARM, CAST, Gaisler Research, Synopsys and Tensilica into this program not only because they are key IP suppliers, but also as forward thinking companies supporting this major productivity advancement for the design community."

FPGA designers are increasingly turning to third-party IP to implement FPGA-based systems. The ReadyIP solution now gives these designers access to both third-party and internally developed IP within Synplicity's FPGA synthesis products and simplifies IP assembly through Synplicity's System Designer capability, a solution for integrating IP into FPGA designs using the designer's FPGA of choice. IP access is provided through Synplicity's synthesis environment via a Web browser. With this "push-button" feature, the user can download various IP directly into the synthesis environment for evaluation.

"Synplicity's ReadyIP program is unique in that it offers FPGA designers easy and efficient access to the IP options available today, including the ARM® Cortex™-M1 processor," said Graham Budd, EVP and general manager, Processor Division, ARM. "We believe ReadyIP will offer designers a better user experience and the ability to complete their designs more quickly and efficiently and deploy them on any FPGA they choose."

"The standards-based ReadyIP program brings a whole new level of IP accessibility right to the FPGA designers who need it the most," said Hal Barbour, president of CAST. "We've been a pioneer in the effective use of IP cores starting 15 years ago, and are excited to help expand the realm of technology independence for FPGA designers through this partnership with Synplicity."

"Synplicity's ReadyIP initiative will help rapidly expand usage of IP by FPGA designers, thereby helping grow the IP market as a whole," said Steve Roddy, Tensilica's vice president of marketing and business development. "As FPGA designs get larger and more complex, FPGA designers will increasingly turn to IP to increase their design productivity."

"By providing a universal and safe method to protect third party IP, Synplicity is playing a key role in helping the industry speed the development and verification of complex SoCs." said John Koeter, senior director of marketing for IP and Services at Synopsys. "With the ReadyIP program, ASIC and SoC designers can now have a convenient way to prototype their designs in FPGAs."

The ReadyIP flow encompasses support for the SPIRIT Consortium's IP-XACT industry standard specification for integration and configuration of IP, as well as support for Synplicity's OpenIP encryption methodology that allows IP providers to securely deploy their IP to potential and existing customers. [Synplicity](#) has donated this encryption methodology to the IEEE and standardization is now officially in process through the IEEE P1735 Working Group.

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## ***Telelogic Announces Enhancements to Rhapsody Model Driven Development Solution including New Eclipse Plug-in***

14 April 2008

Telelogic announced enhancements to its Model Driven Development™ (MDD™) solution, Telelogic Rhapsody®. The new features decrease time-to-market through the support of MDD best practices that do not disrupt current project workflow, and provide system engineers a way to leverage advanced visualization and prototyping capabilities to easily validate design correctness and effectively

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communicate intended design behavior.

Today's announcements include:

- The introduction of Rhapsody 7.2, a new version of the company's flagship Model-Driven Development solution that provides breakthroughs in systems engineering, software asset re-use, and automated documentation and testing;
- The new Telelogic Rhapsody Eclipse Plug-in, a version of Rhapsody integrated within the Eclipse open source development environment, scheduled for release this summer; Rhapsody Eclipse Plug-in allows embedded device and real-time system software developers to continue working on existing projects at the code level while gradually adopting MDD within a single familiar development environment

New Features Increase Automation; Open MDD to C Developers and Integrated Eclipse Development

Building on Telelogic's "Code Respect" initiative, Rhapsody now allows C developers to leverage the benefits of MDD while preserving the code structure, functionality and order. Rhapsody further offers the ability to reverse-engineer existing code and then forward-generate identical code. This allows software developers to use the right tools for the job and work at either the code or model level.

With Rhapsody's Eclipse Plug-in, software developers can streamline their workflow and increase efficiencies by taking advantage of Eclipse's code editing capabilities and gain the benefits of working with an MDD solution all within the same development environment. Using Rhapsody's strong reverse engineering and code synchronization capabilities, Rhapsody's Eclipse Plug-in allows developers to work on the code or model within one complete development environment. Working in this manner, the code and model remain in synch and it is easy to navigate from one to the other. Developers can leverage debugging at the code or model level using the Eclipse debugger and Rhapsody's animation with the ability to synchronize breakpoints between them.

IDT, a company that specializes in Automated Software Testing (<http://www.idtus.com>) recently conducted a one year Software Testing survey which concluded that among other statistics, some 50 - 75 percent of the software development lifecycle is spent on testing related efforts. With recent enhancements to Rhapsody TestConductor™, an integrated model-based testing solution, C developers can now detect and eliminate software defects earlier in the development cycle when they are less costly to fix. Rhapsody TestConductor facilitates unit and integration testing by automating many manual test procedures and decreasing the time needed for testing. It executes tests in single or batch mode, determines the success of the test, and creates a report, enabling developers to collaborate more easily and bring products to market more rapidly. Rhapsody TestConductor is based on the Unified Modeling Language™ (UML®) Testing Profile, enabling tests to be easily linked to design requirements captured in Rhapsody or in Requirements Management products such as market leading Telelogic DOORS®.

"Model Driven Development techniques help engineers become more efficient with the potentially time-consuming tasks of test creation and execution, as well as document creation," said Greg Sikes, Executive Vice President, Modeling Solutions, Telelogic, An IBM Company. "With Rhapsody, engineers immediately gain a better understanding of their software and systems architecture and functionality, while operating in a more open and flexible environment with improved team communication."

Systems Engineering Advancements

With the enhancements announced today, Rhapsody is the first Systems Modeling Language™

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(SysML™) solution that will provide systems engineers with virtual prototyping capabilities using integrated graphical panels to visualize and validate a user mock-up early in the development cycle. Additionally, the graphical panels will allow engineers to modify, monitor and analyze data during simulation making it easier to ensure the design is correct. Rhapsody 7.2 also offers SysML Requirements Tables, Allocation Tables, and N-2 matrices, enabling large quantities of information to be organized, customized, and viewed. Improved model consistency and checking functionality further allows software developers to create their own and domain-specific checks, improving design quality and integrity.

Rhapsody 7.2 will be available in April, 2008. The Rhapsody Eclipse Plug-in and graphical panels will be available in Summer 2008.

For more information, visit <http://www-306.ibm.com/software/rational/welcome/telelogic/>



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## ***The MathWorks Automotive Advisory Board Updates Modeling Style Guidelines***

14 April 2008

[The MathWorks](#) announced version 2.0 of [Control Algorithm Modeling Guidelines Using MATLAB, Simulink, and Stateflow](#).

These style guidelines were developed by The MathWorks Automotive Advisory Board (MAAB), a group of major automotive OEMs and suppliers dedicated to strengthening industry collaboration and facilitating the use of MathWorks tools and [Model-Based Design](#) within the automotive industry.

For this latest version of *Control Algorithm Modeling Guidelines*, Japanese, European, and North American MAAB members collaborated to develop nearly 30 new guidelines for design with [MATLAB](#), [Simulink](#), and [Stateflow](#).

“For over 15 years, the world’s leading automotive companies have employed Model-Based Design with MATLAB, Simulink, and Stateflow to solve development and testing challenges in the areas of engineering analysis, modeling and simulation, rapid prototyping, automatic code generation, and system verification and validation,” said Jon Friedman, automotive industry marketing manager at The MathWorks. “The willingness of the automotive industry to join forces in extending the MAAB guidelines is a testament to the powerful and diverse benefits realized with Model-Based Design, including faster time to market, greater design predictability, improved communication with development partners, and overall cost efficiency.”

By leveraging these guidelines and extending them with company- or project-specific rules, automotive engineering teams can build and manage models for specification exchange, simulation, automatic code generation, documentation, and test definition. In addition, teams can generate designs that are reusable, easy to integrate, and consistent with proprietary or industry-standard guidelines.

### **Pricing and Availability**

Version 2.0 of Control Algorithm Modeling Guidelines Using MATLAB, Simulink, and Stateflow is available now on the Web at <http://www.mathworks.com/industries/auto/maab.html/>

### **About MAAB**

The MathWorks Automotive Advisory Board (MAAB) was established to coordinate feature requests

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from several significant users in the automotive industry. The inaugural meeting took place in July 1998 and involved Ford, Daimler Benz (now Daimler), and Toyota. Today's meetings include over 45 major automotive OEMs and suppliers and focus on MathWorks controls, simulation, and code generation products, including Simulink, Stateflow, and Real-Time Workshop.

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## ***The MathWorks Provides Automated Model-Checking Support for Safety-Critical Systems***

14 April 2008

[The MathWorks](#) announced that its [Simulink Verification and Validation](#) software automatically evaluates and verifies system models for compliance with DO-178B and IEC-61508 standards and [MAAB modeling guidelines](#), which have been extensively adopted by international aerospace, automotive, and industrial equipment markets, among others. The new model-checking features for these important safety-critical standards extend the existing support available within Simulink Verification and Validation for customer-developed modeling guidelines.

As embedded system designs grow more complex, with models expanding to tens of thousands of blocks, engineering organizations have used modeling guidelines as a best practice to improve readability, increase maintainability, and encourage reuse, while guarding against modeling errors. Typically, modeling guidelines are verified through visual inspection of models and related documentation during design reviews. However, an increasing number of organizations have reduced or eliminated such time-consuming and error-prone manual verification efforts by using Simulink Verification and Validation to capture their internal guidelines and automatically check their models.

Simulink Verification and Validation includes modeling-standards checks for DO-178B, IEC-61508, and MAAB modeling standards that are applied by the Model Advisor feature in [Simulink](#). The Model Advisor also checks for other attributes, such as model consistency and code-generation compatibility. In addition, engineers can use the customization application programming interface (API) in Simulink Verification and Validation to develop their own modeling checks, using familiar [MATLAB](#) scripts, and register them with Model Advisor for automatic execution.

“In working with aerospace, automotive, industrial equipment, and others who build safety-critical systems, The MathWorks recognized that modeling-standards compliance is crucial to the overall development process,” said Jon Friedman, aerospace, defense, and automotive marketing manager at The MathWorks. “Many users already employ Simulink Verification and Validation to check their designs against their own modeling guidelines as a core part of their development process. Now, engineers can use the same tools to ensure that their models meet the DO-178B, IEC-61508, and MAAB standards for data types, diagnostics, code generation, and safety, without having to spend critical staff-hours on repetitive manual review work.”

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## ***Valor Releases vPlan Version 1.2***

15 April 2008

Valor Computerized Systems Ltd announced a new release (v1.2) of vPlan - Valor's enterprise-level process engineering software solution for electronics assembly. The new version introduces many innovative features intended to enhance the ability of manufacturers to transfer production between lines

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and factories even when CAD and AVL data is not available, and create highly efficient Manufacturing Process Definitions (MPDs) even when incoming data is of poor intelligence-level. In addition, vPlan v1.2 adds coverage for additional machine models, further extending its vendor-neutrality and flexibility. Among the new features included in vPlan version 1.2 are:

## 1. Re-optimization of legacy NC programs

Version 1.2 provides the ability to import existing machine programs even when no CAD or BOM data is available, and turn them into optimized product models. Grouping can also be applied, and the resulting model can be restored back to the original line or transferred to any other line. This allows for easy integration of AVL information and ECO implementation even when no CAD or BOM data is available.

## 2. Re-engineering of Gerber data

Version 1.2 allows extraction of footprint data and component list (if exists) from Gerber and provides enhanced ability to align CPL data with Gerber data.

## 3. Bottom-Up Auto Generation

Version 1.2 enables import of legacy parts data and their conversion into vShapes – Valor’s intelligent shape data. This method of machine part auto generation can be used even when no AVL is available.

## 4. Alternate IPN Support

Version 1.2 provides the ability to store alternate IPNs in the database and at the absence of AVL information, generate output for feeder set-up based on the alternative parts.

## 5. Move to Line

Version 1.2 allows moving BOMs from one line to another with a single click and can also move parts data automatically.

## 6. Workflows

Version 1.2 enables administrators to create standard workflows that can later be followed by other users when using the tool.

## 7. Enhanced vLibrary

10,000 vShapes have been added to vPlan’s built-in shape library, and full JEDEC trays have been added to the supply form library. Enhanced filtering capabilities have been added as well. . PRESS RELEASE - Page 2 of 2 -

Commenting on the new version, Julian Coates, Valor’s VP Assembly Market, said “as leading solution providers we are committed to deliver new levels of innovation and added value to the PCB assembly market. Version 1.2 of vPlan reinforces that commitment with new and improved functionalities that will further assist our customers in streamlining their production processes, and extended coverage of machine models, reinforcing our position as vendor-neutral engineering platform providers.” vPlan is a revolutionary solution for synchronized process engineering in an easy to use package. It is a single solution that delivers a complete, seamless engineering process from CAD to machine, covering SMT, Through Hole Technology and manual assembly. It also delivers complete comprehensive and synchronized Manufacturing Process Definitions (MPD) to the production floor, and automatically generates machine specific libraries on demand (registered patent). About Valor

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Valor is a global provider of productivity improvement software solutions for the printed circuit board, or PCB, manufacturing supply chain. PCBs are the principal electronic interconnect technology used in the vast majority of electronic products sold today. Valor's solutions target three key segments in the PCB manufacturing market: design of the physical layout of the PCB, fabrication of the bare PCB, and assembly of PCB components. Valor is listed on the Prime Standard of the Frankfurt Stock Exchange [WKN 928731]. More information about Valor can be found on <http://www.valor.com>.

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