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## Top Story

### ***Autodesk Agrees to Acquire Blue Ridge Numerics, Inc.***

17 February 2011

Autodesk, Inc. announced that it has signed a definitive agreement to acquire Blue Ridge Numerics,

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Inc., a leading provider of simulation software, for approximately \$39 million in cash. The transaction is subject to customary closing conditions and is expected to close in Autodesk's first quarter of fiscal 2012 (which ends on April 30, 2011).

Charlottesville, Virginia-based Blue Ridge Numerics' CFdesign technology will be an important addition to the Autodesk simulation software portfolio for manufacturers, which currently includes [Autodesk Inventor](#), [Autodesk Algor Simulation](#) and [Autodesk Moldflow](#). It will broaden the Autodesk solution for [Digital Prototyping](#) to provide customers with a spectrum of computational fluid dynamics (CFD) capabilities that help automate fluid flow and thermal simulation decision-making for designs, while eliminating costly physical prototyping cycles.

"Simulation represents a significant growth area for Autodesk, and we are focused on strengthening our portfolio in this area both organically and through acquisitions," said Robert "Buzz" Kross, senior vice president of the Manufacturing Industry Group at Autodesk. "The acquisition of Blue Ridge Numerics will add important new simulation capabilities to virtually test and predict how a product or building design will work, allowing our customers to compete more effectively at every step of the design process."

"Since 1992, Blue Ridge Numerics' comprehensive CFD tools have helped engineers improve quality, accelerate time-to-market and drive profitability," said Ed Williams, president and co-founder of Blue Ridge Numerics. "Autodesk is a valued business partner, and the combination of both companies' proven Digital Prototyping technologies will help customers worldwide tackle complex engineering challenges and ultimately be more successful with their designs."

## **Proposed Integration**

Blue Ridge Numerics' CFdesign software allows mechanical and building system engineers to virtually test and predict real-world behavior of new and existing designs and eliminate expensive physical prototyping cycles in the lab. Its CFD software allows engineers to make informed, up-front decisions about air flow, fluid flow or electronics cooling to help design and manufacture safer, quality products or construct more energy efficient buildings.

Blue Ridge Numerics has successfully broken down technological barriers that previously prevented the integration of CFD within the mainstream product development process. The company's robust, general-purpose analytical engine produces accurate simulations set up within a range of CAD systems with little human time or simulation experience required.

Upon completion of the acquisition, Autodesk's intent is to integrate Blue Ridge Numerics into its Manufacturing Industry Group and to continue developing and selling Blue Ridge Numerics CFdesign products, supporting Blue Ridge Numerics customers and integrating them into the Autodesk Manufacturing Community. Autodesk is also committed to continue developing the Blue Ridge Numerics products with a multi-CAD approach, allowing direct data exchange between CFdesign products and multiple computer aided design software offerings.

## **Business Outlook**

This transaction is expected to decrease Autodesk's GAAP diluted earnings per share in its fiscal first quarter of fiscal 2012 by approximately \$0.01 and non-GAAP diluted earnings per share by approximately \$0.01. For the full year fiscal 2012, this transaction is expected to decrease Autodesk's GAAP diluted earnings per share by approximately \$0.02-\$0.03 and non-GAAP diluted earnings per share by approximately \$0.01-\$0.02. Non-GAAP diluted earnings per share exclude \$0.01 for

amortization of acquisition related intangibles, net of tax.

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## Acquisitions

### ***OpenText Completes Acquisition of BPM Leader Metastorm Inc.***

18 February 2011

OpenText said today it has completed its acquisition of global Business Process Management (BPM) leader Metastorm, adding complementary software solutions in the BPM market. Metastorm is a key addition to OpenText's Microsoft partner strategy and will help the company create a new generation of process improvement solutions that demand a combination of content and process management capabilities.

"With Metastorm, OpenText moves into the BPM market allowing customers to purchase leading solutions in Enterprise Content Management (ECM) and BPM from a single vendor which ultimately helps them improve their business in the most comprehensive way," said John Shackleton, Chief Executive Officer at OpenText. "We see a lot of customer demand for solutions involving content and process improvement and Metastorm is the perfect fit, presenting a tremendous opportunity for OpenText."

Baltimore, Maryland-based Metastorm is known for its leadership in BPM, but also provides Business Process Analysis (BPA) and Enterprise Architecture (EA) software—all will play a role in OpenText's product plans. Just like BPM, Metastorm's BPA and EA capabilities are complementary to OpenText's and bring together comprehensive views of an organization—from the strategy and goals that drive the business, to the day-to-day systems, processes and people that run it, to the content needed to make the best business decisions.

Many processes involve content and thus require content management. With Metastorm, OpenText can now address any type of business process, whether the focus is content-centricity or process centricity. OpenText's strategy is to add to existing solutions with new, powerful case management solutions used in areas such as customer on-boarding or claims processing, where the effective delivery of knowledge and content are a critical part of the overall business process.

"The demands for these solutions are in major industries such as financial services and insurance, energy, government, life sciences and healthcare, and that's where we see the opportunity," said Shackleton. "Metastorm brings an experienced team of employees and a global footprint to help us deliver solutions worldwide."

### **Strategic Fit with Microsoft**

A key strategic benefit of the acquisition is that Metastorm's BPM solutions integrate with the Microsoft environment and in particular with Microsoft SharePoint. OpenText is a leader today in providing ECM solutions that integrate with SharePoint and Microsoft Office. For SharePoint, OpenText offers compliance and content lifecycle management solutions that help customers centralize the management of their SharePoint sites across the enterprise. Together, the combined companies can provide a mix of process and content management solutions that integrate with Microsoft, continuing to add to OpenText's position as a leading Microsoft partner and a key provider of solutions that support and extend SharePoint.

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Metastorm is the third major announcement in the last few months that shows OpenText is making major strides in its ecosystem strategy to build strong partner relationships with the three largest enterprise software vendors—Microsoft, Oracle, and SAP. The goal is to deliver solutions that help customers manage content across all their key enterprise systems. In October, OpenText acquired StreamServe, a provider of customer communications solutions and a major partner to SAP (<http://www.opentext.com/2/global/press-release-details.html?id=2422>). In November, Oracle and OpenText announced an agreement in which OpenText will create archiving, compliance and eDiscovery solutions for Oracle technology (<http://www.opentext.com/2/global/press-release-details.html?id=2426>).

To find out more, listen to an [OpenText News Podcast](#) about the acquisition released today.

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## Company News

### ***Actify Announces Actify Europe GmbH***

17 February 2011

Actify Inc. announced the opening of a new office in Munich, Germany. This signifies another milestone in the company's growth following a record high sales period. Actify continues to lay down the foundations for further expansion.

"We found that our principal reseller in Germany was not capable of developing the market and supporting our customers in the way we required," said Chris Jones, Actify President. "It was for this reason we decided the best policy was to open an office in Germany so that we could better support our installed base directly" continued Jones. "This is part of a greater expansion program across the organisation, both in the field and in R&D, maintaining our mission to provide the best support and solutions to our ever expanding customer base. These are very exciting times at Actify."

This expansion of a direct presence in Germany is part of a major new phase of growth and investment in the region. The office at Otto-Hahn-Str. 13b, 85521 Riemerling/Ottobrunn, will be headed by our long time Actify Regional Sales Manager for the DACH region, David Campbell. David has been with Actify for over 9 years and will be joined initially by a team of 5 including a key former member of the aforementioned reseller. The inclusion of the former head of technical support person from the reseller will ensure a smooth transition for our current customers in the region, as well as providing additional experienced technical support for new customers. Actify has over 2000 customers in Germany and with the decision to cancel contracts with its principal distributor and reseller last September, Actify is excited to be able to directly support and grow not only our existing customers, but our new customers as well.

For more information on the transition, visit

[http://www.actify.com/GmbHannounce\\_english/](http://www.actify.com/GmbHannounce_english/)

[http://www.actify.com/GmbHannounce\\_german/](http://www.actify.com/GmbHannounce_german/)

To view this press release in German, visit <http://www.actifyeurope.de>

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## *Autodesk Launches Clean Tech Partner Program in Japan*

15 February 2011

Autodesk, Inc. announced the expansion of its Clean Tech Partner Program to Japan. The Japan program marks the first step in a planned expansion into Asia Pacific. The Autodesk Clean Tech Partner Program provides [Digital Prototyping](#) software to clean technology companies, with the goal of accelerating innovation and addressing some of the world's most pressing environmental challenges.

The program is open to all early-stage clean tech companies in Japan and has an initial focus on the electric vehicle market, in which Japan is a leader. SIM-Drive and Nano-Optonics Energy are the first Japanese companies to have joined the Autodesk Clean Tech Partner Program. SIM-Drive develops in-wheel motors for electric vehicles. Nano-Optonics Energy is a nanotechnology, environment and energy research and development company.

Autodesk defines the clean tech industry as companies engaged in developing products or services to address the causes of environmental problems through technology and related business models. Launched in July 2009, the Autodesk Clean Tech Partner Program has provided design software to hundreds of clean technology entrepreneurs in North America and Europe, including:

KOR EcoLogic, who designed the first prototype car with a body created using a 3D printer and that uses a hybrid electric/gasoline engine;

Springboard Biodiesel, a producer of processors that turn vegetable oil into biodiesel; and

[Pyrum Innovations](#), a start-up working on a new recycling process for used tires.

Morio Kizawa, president of Autodesk Japan, said, "As the world's fifth largest emitter of greenhouse gases, Japan is committed to being a part of the solution to this global challenge. Japanese companies are redefining themselves through environmental leadership. For example, Japan accounts for 70 percent of the electric vehicle patents filed globally. The Autodesk Clean Tech Partner Program aims to help Japanese clean tech entrepreneurs create a more sustainable world. It enables companies to accelerate innovation and bring their unique technologies to the global market, while reducing costs and development time."

Autodesk software helps customers design, visualize and simulate their projects before they are built, rather than using physical prototypes. Since as much as 80 percent of a product's environmental impact is determined by decisions in the design phase, the potential impact of this shift is profound. In the automotive industry, Autodesk software enables companies to optimize car design, while enabling faster and more numerous iterations without the need for more costly physical prototypes.

Blaine McFarlane, mechanical engineer, KOR EcoLogic, said, "Being part of the Autodesk Clean Tech Partner Program has allowed us to build our start-up company with a solid software foundation that will easily scale as we grow; from prototype design to mass production. We are using Autodesk software to design our prototype vehicle, simulate its performance, and produce stunning digital renderings. Partnering with Autodesk has brought us one step closer to our goal of building Urbee, the greenest car on the planet."

"The Autodesk Clean Tech Partner Program is a great opportunity for SIM-Drive," said Hiroshi Shimizu, president of SIM-Drive. "Using software such as Autodesk Alias, we're benefiting from Digital Prototyping. We hope that the Autodesk Clean Tech Partner Program encourages more clean tech start-ups to deploy their concepts."

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Hiroshi Fujiwara, president of Nano-Optonics Energy, said, “The cost of design software can be a burden on small and early-stage companies. Taking part in the Autodesk Clean Tech Partner Program has given us access to optimal design and engineering software. We believe the Autodesk Clean Tech Partner Program is an effective initiative to help clean tech companies grow and bring their ideas to fruition.”

## **About the Clean Tech Partner Program**

Each Autodesk Clean Tech Partner in Japan will receive up to 22 million JPY of design software for only 10,500 JPY. Access to a collection of industry leading Autodesk software applications includes up to five licenses of:

[AutoCAD Inventor Professional Suite](#)

[Autodesk Showcase](#)

[Autodesk Vault Professional](#)

[Autodesk Navisworks Manage](#)

[Autodesk Revit Architecture](#)

[Autodesk Alias Design](#)

For complete program information, including application process details for the Clean Tech software grant in Japan, visit <http://www.autodesk.co.jp/cleantech>.

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## ***Autodesk Names Steve Blum to Lead Worldwide Sales and Services Organization***

14 February 2011

Autodesk, Inc. announced the appointment of Steve Blum to senior vice president, worldwide sales and services, for Autodesk. Reporting to the company’s President and CEO, Carl Bass, Blum will be responsible for the execution of sales and services of Autodesk’s entire portfolio of [3D design](#), engineering and entertainment software.

Blum has been with Autodesk for eight years, heading up Autodesk’s Americas Sales organization. In that capacity he has been responsible for driving sales, channel strategy, sales execution and field marketing throughout the Americas. Under Blum’s leadership, the Americas revenues more than doubled. He also spearheaded the [Autodesk Assistance Program](#), which has provided tens of thousands of out-of-work architects and engineers with free\* software and training to maintain their skills in a down economy. Prior to Autodesk, Blum was executive vice president of sales and account management for Parago, Inc.

Free products are subject to the terms and conditions of the end-user license agreement that accompanies download of the software.

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## ***Bentley Launches STUDENTserver Providing Students and Faculty Easy, Self-Serve Access to Bentley Software and Training***

15 February 2011

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Bentley Systems, Incorporated announced the launch of [STUDENTserver](#). This intuitive website offering is available at no charge to schools participating in the [Be Careers Network Academic SELECT Subscription](#) program. STUDENTserver provides all students and faculty at these schools with self-serve access to the same commercial-grade software used by leading architects, engineers, and owner-operators to design, build, and operate the world's infrastructure. It includes access to unlimited training, learning transcripts, professional networking opportunities on Be Communities, and more. Featuring automatic fulfillment, STUDENTserver is easy for schools to administer. It registers students for services from Bentley, distributes software for home use, provides licenses to students and faculty, and maintains the software licenses and training. This means schools can now provide students and faculty with the more than 50 software products and unlimited training available through Academic SELECT without adding to their administrators' workloads. STUDENTserver's extensive resources help students acquire in-depth knowledge of advanced design and engineering software and hone their skills in applying this technology – enabling them to become job ready upon graduation.

Commenting on the new service, Claude Junkins, instructor for the School of Engineering Technology and coordinator of Engineering Support Services, University of Maine, said, “The new STUDENTserver streamlines the process of accessing Bentley's expanding library of learning resources and software. At the same time, it relieves the burden that our campus administrators typically face in responding to multiple, urgent requests for software from students and faculty. It's a win for everyone.”

Scott Lofgren, global director of the Be Careers Network, said, “The powerful combination of STUDENTserver and Bentley's Academic SELECT Subscription enables educators to conveniently and cost-effectively provide students hands-on experience with professional-grade software for sustaining infrastructure, giving them a substantial competitive edge in the jobs market. Our research shows that STUDENTserver will reduce the burden of software administration and distribution to students and faculty by as much as 90 percent, and we are pleased to offer this valuable addition to our Be Careers program at no charge.”

Getting the new STUDENTserver up and running at schools is quick and easy. Administrators secure a single school code, email it to faculty and students, and the system is ready to fulfill requests for all the architectural, engineering, construction, and geospatial software and training needed to support classroom work. Faculty and students then access the STUDENTserver by entering the code.

For additional information about Bentley's STUDENTserver, visit [www.bentley.com/students](http://www.bentley.com/students).

For additional information about Bentley's academic subscriptions, visit [www.bentley.com/academicsubscriptions](http://www.bentley.com/academicsubscriptions).

For additional information about Be Careers Network, visit [www.becareers.org](http://www.becareers.org).

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## ***Blue Ridge Numerics Issues 26-Page eZine Focused on Upfront CFD for the Built Environment***

17 February 2011

Blue Ridge Numerics, Inc. announced the availability of “[Upfront CFD for the Built Environment](#),” an in-depth new eZine that provides real-world case studies and critical design information for Architecture, Engineering, and Construction (AEC) and Mechanical, Engineering, and Plumbing (MEP) professionals. The eZine looks at how AEC/MEP firms of all sizes can integrate computational fluid dynamics (CFD) analysis upfront in the design and engineering process to more efficiently and cost-

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effectively achieve sustainability objectives, meet government certifications, and increase [human comfort](#) in new and existing building designs.

[Upfront CFD software](#) provides [architectural designers](#) and [MEP engineers](#) with an easy to use 3D simulation environment that enables validation and optimization of design issues such as thermal comfort, energy savings, occupant safety, and air quality using data directly from leading building information modeling (BIM) software systems. The new eZine provides a collection of articles that help AEC/MEP professionals address these issues, while saving clients significant amounts of time and money and providing a more accurate picture of the ongoing operating costs.

Key topics discussed in “Upfront CFD for the Built Environment”

- Case studies based on recent real-world applications of upfront CFD simulation
  - Interview with Jason Sambolt, LEED AP of SmithGroup, on use of Upfront CFD for Sustainability
  - DP Architects and UNStudio collaborate using BIM and upfront CFD in green practice
  - AlaJor Engineering improves client’s air quality and saves \$100,000
  - Genesys Engineering brings more comfort and fewer contaminants to Yale Medical Lab
  - Morson Projects ensures safe airflow in parking garage design
- Critical issues facing AEC/MEP firms
  - LEED Certification: CFD Brings Sustainability Upfront in the Design Process
  - Data Center Cooling: Controlling the data center’s unquenchable energy thirst
  - ASHRAE Standards: ASHRAE sets down challenge to model a sustainable world
  - BIM Software: BIM-driven design simulation: an idea whose time has come
- Exploring CFD
  - 5 Vanishing CFD Myths
  - What to look for in an Upfront CFD software package

Jason Sambolt, LEED AP of SmithGroup, a national architectural, engineering, and interiors planning firm, interviewed in the eZine says, “Upfront CFD software has allowed SmithGroup to confidently implement new technology and ideas through proof of concept verification. For example, a room with a chilled beam system can be modeled quickly and easily during the design process to ensure thermal comfort will be maintained. Additionally, CFD can be used to determine the feasibility of a natural ventilation design for a retrofit of an existing building.”

Historically, CFD software has been viewed as a highly specialized application that required years of expertise. Now Upfront CFD enables architects, designers, and engineers to leverage CFD software right out of the box with very little training to simulate such needs as data center cooling, solar loading, smoke visualization, external wind loading, and energy audits.

“Upfront CFD can be applied to almost any architectural project, ranging from component-level studies to wind/wake studies on the scale of a city block and can be leveraged by both large and small AEC and MEP firms,” says Parker Wright, AEC segment manager for Blue Ridge Numerics. “Integrating CFD into the design process is helping firms increase agility, differentiate themselves from the competition, mitigate risk, and positively impact the bottom line.”

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## Where to Obtain A Copy of “Upfront CFD for the Built Environment” eZine

The eZine is free and available for immediate download by visiting the following link:

<http://info.cfdesign.com/aec-ezine.html>

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## ***Catalog Data Solutions Provides Online Catalog and PTC Creo Elements/Pro Models for 2011 FIRST® Robotics High School Teams***

15 February 2011

[Catalog Data Solutions Inc.](#) (CDS) announced the availability of [online CAD libraries](#) of PTC® Creo™ Elements/Pro™ (formerly called Pro/ENGINEER®) models for the FIRST® (For Inspiration and Recognition of Science and Technology) 2010-2011 high school programs: FIRST® Robotics Competition (FRC®) and FIRST® Tech Challenge (FTC®). Creo Elements/Pro is PTC's 3D parametric CAD/CAM/CAE software. PTC has modeled the FRC and FTC's Kit of Parts and, with CDS, made it available to the competing teams through an online CDS catalog for drag and drop download directly into Creo Elements/Pro.

FIRST strives to engage students in grades K-12 in exciting and innovative programs designed around the use of robotics to develop science and technology skills and motivate students to pursue careers in science, technology and engineering. PTC is a sponsor and the highest level supplier - Crown level - of the FIRST Robotics Competition. PTC is also the CAD and Collaboration sponsor for FTC. In addition to Creo Elements/Pro, all participating teams have the opportunity to use Windchill®, PTC's PLM software for team collaboration, Mathcad® for creating and sharing engineering calculations, and Creo Elements/View™ (formerly called Productview®) for visual collaboration.

“The annual FIRST competition encourages both practical collaboration and product design skill development in designers of the future. It has also proven to be an inspiring experience for all the students, coaches, mentors, volunteers and sponsors,” said John Major, CEO of Catalog Data Solutions. “At CDS we're delighted to continue our support of PTC's sponsorship by enabling the online CAD model libraries are for the use of all competing teams with our [CDS Catalog](#) and [CDS ModelServer](#) technology.”

According to Robin Saitz, PTC senior vice president and executive sponsor for PTC's partnership with FIRST, "FIRST teams have six weeks to design, build and ship their robots to regional competitions. The only way to make this deadline is with strong teamwork, an efficient build process, and access to the FRC and FTC Kit-of-Parts CAD Libraries through CDS. Using Creo Elements/Pro, FIRST students and mentors can quickly begin to design a robot rather than spending valuable time modeling its standard components. It's an exciting time for these teams, and we are proud to offer this capability with CDS to FIRST teams worldwide.”

To learn more about FIRST, go to <http://www.usfirst.org>.

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## ***Cimatron Expands Presence in India with Aditya Infotech Limited***

14 February 2011

Cimatron Limited announced the partnership with Aditya Infotech Limited to increase CimatronE's

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reach and coverage in India.

Aditya Infotech Ltd. (AIL), the flagship company of Aditya Group, offers a wide range of technological solutions to the Indian Market, through its 25 Branches Network across the country.

The partnership will establish new CimatronE sales and support centers run by Aditya Infotech Ltd. to cover the entire Indian Territory. The move is intended to boost sales and support services to customers in every region of India. Cimatron India will work very closely with the new distributor and will also continue to serve existing customers.

"Aditya's achievements in the field of technology in India are vast and impressive," said Kobi Rosenwasser, Cimatron's Vice-President for Asia Pacific. "Aditya's dedication to service and professionalism has been a key factor in selecting it to be our distributor, and I am confident that this partnership will add significant value to CimatronE's market share in India."

CimatronE is an integrated CAD/CAM solution for toolmakers and manufacturers of discrete parts, which provides full associativity across the manufacturing process from quoting, through design and up to delivery. Products include: Mold Design, Electrode Design, Die Design, 2.5 to 5 Axis NC Programming and 5-Axis Discrete Part Production. Cimatron's fully integrated CAD/CAM solutions use the most advanced technology available to increase productivity and shorten delivery times.

"Aditya Infotech's distribution of CimatronE's solutions enables Indian manufactures to improve their businesses by shortening delivery times, reducing costs and increasing quality," said Aditya Infotech's Director, Mr. Rishi Khemka "AIL's 25 branch offices with sales and support manpower and network of channel partners across the entire country, will help tooling manufacturers to use the power of CimatronE at an affordable cost."

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## ***EDS Technologies Receives Sales Achievement Award from Dassault Systèmes***

January 2011

[EDS Technologies](#) received a Sales Achievement Award for recognition of outstanding efforts in achieving and exceeding sales figures for the year 2010 during the recent annual Dassault Systèmes sales kick off meet in Bangkok, Thailand.

"This is the 10th time we are receiving this recognition which is a matter of great pride for us. I thank all our customers for their business and all our employees for their sincere and dedicated effort which led to this achievement" says S. Senthil- President EDS Technologies.

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## ***Equalis Appoints AEC srl Consulting as its Reseller and Scilab On-line Support Partner for Italy***

16 February 2011

Equalis announced that it has appointed AEC srl Consulting as its partner for Italy and Ticino, Switzerland. AEC srl Consulting, a value added reseller of complex CAE, CAD, CAM and PLM software solutions, headed by industry veteran Michele Suriani, has strong experience in process improvement and working with major Italian industrial companies and education institutions. Through this partnership, Equalis and AEC Consulting will drive adoption of the Scilab open source math application by providing customers direct access to a local, dedicated team of applications specialists to

solve challenges fast.

[Equalis](#) enables the free flow of ideas, cutting-edge research, open source technology, problem solving, and job opportunities for individuals and organizations with a common interest in math and math-centric endeavors. Equalis is a member of the Scilab Consortium, and exclusive worldwide Scilab On-line Support (SOS) partner of Scilab Enterprises, the development and service company for Scilab, the leading Open Source numerical computation platform. The SOS program provides Scilab users a full range of premium benefits, including; advanced user documentation, email support, video tutorials, priority bug fixes, and real-time support via chat, phone, and desktop connect. Equalis also provides support migrating Matlab users to the Scilab application.

AEC Consulting, founded in 1995, provides a range of software solutions and support services to Italian engineering and manufacturing companies. AEC Consulting also has extensive expertise in providing training and deploying complex software solutions.

"We are delighted to expand our coverage for our Italian customer base through this partnership with AEC srl Consulting and providing continued benefits with strong local support", said Neil Mitchell, COO and Co-founder, Equalis. "We look forward to continuing to grow the adoption of Scilab in Italy".

"We are excited to join the Equalis team and support their global operations", said Michele Suriani, Managing Director of AEC srl Consulting, "We look forward to bringing our expertise to bear in acquiring and supporting more customer Scilab programs".

About AEC srl Consulting

Formed in 1995, AEC srl Consulting provides a complete range of services tailored to the needs of its engineering and manufacturing customers. From its initial mission of providing rich and complex CAE, CAD, CAM solutions by distributing and supporting 3D modeling software for process plants it has evolved to be a leading VAR of PLM for a broad range of industries, and providing process improvement skills and a deep domain knowledge to address all of its customer needs for success. For more information: <http://www.aec-consulting.it>

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## ***Geometric Joins ProSTEP iViP Association***

February 2011

Geometric is now a member of ProSTEP iViP association. With more than two decades of significant contribution in PLM, CAD and related interoperability technologies delivered to organizations across industries, Geometric appreciates the vision of ProSTEP iViP and will be an active contributor through various forums.

Geometric is looking forward to making a significant contribution to standards like JT and STEP, leveraging its expertise and competencies in the domain. Their strong alliances with PLM leaders such as Dassault Systèmes, Siemens PLM Software, and others, and customer relationships with the leaders in the respective industries, who are also active member of ProSTEP iViP, enables Geometric to be very well positioned to contribute towards these open standards in the PLM domain.

For more details on ProSTEP iViP please visit: <http://www.prostep.org>

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# CIMdata PLM Industry Summary

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## ***Iowa Western Community College Receives In-Kind Software Grant From Siemens PLM Software Valued at \$65.2 Million***

16 February 2011

Siemens PLM Software and Iowa Western Community College (IWCC) announced the largest in-kind corporate contribution ever received by the college. The in-kind software grant from Siemens PLM Software, with a commercial value of \$65.2 million, was presented today at a recognition ceremony held at the college in the presence of Iowa Gov. Terry Branstad.

The in-kind software grant made through Siemens PLM Software's [GO PLM™ initiative](#), which includes training and specialized software certification programs, will enable IWCC to begin a design technology program to help meet the growing demand for a well trained, well qualified workforce. The design technology program will prepare graduates to enter the workforce in a high-demand career field or transfer to a four-year institution to complete a bachelor's degree.

This unique, first-of-its-kind program brings together industry and academia to define program requirements that will help meet the needs of the marketplace. IWCC created an industry advisory board which, in addition to Siemens PLM Software, includes management team members from a variety of global manufacturers that call Iowa and Nebraska home, including Rockwell Collins, Inc. The input received from the industry advisory board was used by IWCC in conjunction with representatives of Iowa's regent institutions to create a curriculum to provide advanced hands-on training that will help enable students to effectively enter the workforce following graduation. The new program will be offered at Cass County Center in Atlantic, Iowa, following renovations.

"The design technology program being developed by Iowa Western Community College is important to industry because of the emerging importance of PLM in managing the overall design process from concept, to manufacture, to product support, to product retirement," said Dale Wulf, Manager, Mechanical Design Support, Rockwell Collins, Inc. "This is becoming a critical skill as products increase in complexity and design cycles continue to compress. With the implementation of this program by IWCC, employers will have another resource to draw qualified employees, who are familiar with PLM to fill a potential skill gap, which is projected to be increasing with the pending retirement of the baby boom generation."

The new software, which will be incorporated into the curricula, will introduce students to product design and development technology used by many of the world's leading manufacturing, architectural and construction companies. The coursework will help prepare students to develop technical drawings and plans to build everything from microchips to skyscrapers.

The range of software includes Siemens PLM Software's [Teamcenter®](#) software,; [NX™](#) software, a comprehensive digital product development solution; and [Solid Edge®](#) software, the core CAD component of the Velocity Series™ portfolio, a comprehensive family of solutions addressing PLM needs of the mid-market.

### GO PLM Program

Siemens PLM Software's [Global Opportunities in Product Lifecycle Management](#) (GO PLM™) initiative leads the industry in the commercial value of the in-kind grants it provides and brings together four complementary community involvement programs focused on academic partnership, regional productivity, youth and displaced worker development and the PACE (Partners for the Advancement of Collaborative Engineering Education) program. GO PLM provides PLM technology to more than one

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million students yearly at nearly 10,800 global institutions, where it is used at every academic level – from grade schools to graduate engineering research programs. For more information on GO PLM and the partners and programs it supports visit <http://www.siemens.com/partners/goplms>.

## About Iowa Western Community College

Iowa Western Community College is accredited by The Higher Learning Commission and offers two-year college transfer programs and more than 80 career programs to residents in a seven-county merged area. The college's main campuses are located in Council Bluffs and Clarinda with other centers situated in Atlantic, Harlan, and Shenandoah. Degrees granted include the Associate of Arts, Associate of Applied Science, and Associate of Science. A diploma or certificate is granted upon the completion of selected programs. Full-time equivalent enrollment in 2010-2011 was 6,800. Adult and continuing education enrollments exceeded 40,000 during the same period.

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## ***Lectra Appoints Adriana Vono Papavero as Managing Director for South America to Maintain Excellent Momentum***

15 February 2011

Lectra announced the appointment of Adriana Vono Papavero as Managing Director of Lectra South America.

Based in São Paulo, Brazil, Adriana Vono Papavero will report directly to Daniel Harari, Lectra CEO. She replaces Edouard Macquin, who was recently promoted to Worldwide Director of Sales for Lectra.

Lectra started operations in Brazil in the late 1980s. Now, twenty years later, the company has offices in Brazil (São Paulo and Blumenau) and Chile (Santiago), as well as a network of agents across South America. The Brazilian subsidiary counts over 1,200 customers and experienced an impressive growth rate that prevailed even through the 2008–2009 worldwide financial crisis.

“A decade ago you could say there was a huge technological gap between South American companies and those based in Europe and the U.S. Today, this gap still exists, but it is much smaller. And we have examples of companies in our region that, with the help of state-of-the-art solutions, are actually leading their industries. As competitiveness peaks, those companies will feel the need to invest more not only in new cutting systems and software solutions, but also in the expertise and services necessary to guarantee maximization of their existing resources. Very high quality solutions and a team of experts with in-depth knowledge of industry best practices are Lectra's keys for providing top quality professional services that highly improve customer processes,” said Adriana Vono Papavero.

“Adriana's background and experience will help Lectra's South American subsidiary leverage its impressive pool of knowledge and offer strong support to an increasing range of companies in South America. Lectra's team is enjoying unprecedented activity in the entire region, but particularly in Brazil and Argentina. Our potential in South America today is higher than ever,” said Daniel Harari, Lectra CEO.

“Being part of [Lectra](#) at this crucial time is both exciting and challenging,” added Adriana Vono Papavero. “The new developments in design, product engineering, and manufacturing solutions we are about to launch only add to that. In the coming years, we will strive for even stronger relationships with our customers as we assume our role as committed partner supporting growth, improving quality, and delivering value.”

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Adriana Vono Papavero holds an MBA in Marketing from ESPM, Brazil's foremost marketing school. She worked previously for Lectra from 2000 to 2007, acting as Marketing Manager and Sales Account Manager. Before returning to Lectra, Adriana was Sales Director for South America at WGSN, the online trend and research analysis provider. Adriana has more than 10 years' experience with fashion and design-oriented companies and now returns to Lectra at a particularly successful moment for the company. Recovery from the global crisis has exceeded expectations and proven once again the strength of Lectra's business model, which has enabled the group as a whole to emerge stronger than ever from recent worldwide financial difficulties.

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## ***Pro Technologies Expands its Presence with the Launch of Pro Technologies Engineering in the United States***

14 February 2011

Pro Technologies, a leading engineering consulting company, CAD/CAM/CAE/PDM/PLM software provider and system integrator of a full range of PLM solutions for industrial enterprises, announced the expansion of its Moscow based corporation with the launch of its U.S. office in Bloomington, Minnesota.

The U.S. expansion, announced by Mark Garbuz, President of Pro Technologies Engineering, will advance Pro Technologies' capabilities to provide engineering and technical services in a more strategic location for its American based clientele. "Pro Technologies' expansion into the U.S., with the opening of Pro Technologies Engineering, is a very exciting venture and comes at a perfect time for our company," said Mr. Garbuz. "In the past year we have seen a rapid growth in our business and this expansion will enable Pro Technologies to better service its industrial design and manufacturing customers that are based within the United States."

Pro Technologies is comprised of a team of design and engineering professionals and is one of the fastest growing companies in the Russian PLM market today. With offices throughout Eastern Europe and now the United States – by launching Pro Technologies Engineering – Pro Technologies, is serving organizations in industries such as consumer goods, heavy machinery, automotive, telecommunications, electrical, electronics, aircraft, aerospace, plastics and other market segments.

Pro Technologies Engineering design-service centers will benefit the U.S. customers by helping them reduce costs, improve their bottom-line and bring their products to market faster. Company services include concept design, product design, 3D modeling, 2D drawing, data migration, reverse engineering, tooling design, tool-path programming and post-processor programming for any complexity CNC machines (3 to 5-axis milling, multi-axis turning, turn-mill and wire EDM), stress analysis using finite element analysis, engineering simulation, thermal and fluid flow analysis and computational fluid dynamics. Learn more about Pro Technologies Engineering at <http://www.e-protech.com>

### **Contacts**

Pro Technologies Engineering

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## ***PTC's PLM Momentum Accelerates as Automotive Industry Evolves***

14 February 2011

PTC® announced plans to establish a Research and Development Center of Excellence focused on the specific [PLM requirements of the automotive industry](#), including the requirement for globalization, the desire for an open PLM platform, the opportunity to optimize service operations, and the need for tighter integration between CAD, BOM and the Digital Mock-Up for rapidly changing vehicle configurations. The R&D center is located in Korea.

"Automotive OEMs and supply chain participants are facing an expanding set of business and technical complexities that include evolving supply chain relationships, increasingly complex vehicles with more electronics and software; rapidly developing regulatory compliance-related requirements, and increasing consumer quality, functional and time-to-market demands," said Peter Bilello, President of [CIMdata](#), a leading global PLM management consulting and research firm. "The good news is that PLM-enabling solutions are seen by many in the global automotive industry as critical to addressing these issues."

Jim Heppelmann, President and CEO of PTC, commented "We are seeing a significant amount of generational turnover of [PLM technology](#) in the automotive industry. Over the past 12 months, PTC has partnered with leading passenger and heavy vehicle OEMs such as Hyundai Motor Company and Kia Motors Corporation, and Volvo Group, as well as major automotive suppliers such as Continental, Schaeffler, HARMAN Automotive, and Cummins to help them implement their next-generation product development systems. Each of these companies intends to leverage our core [Windchill®](#) PLM software as the backbone of their product development technology platform. These partnerships have contributed greatly to our momentum in the automotive vertical, characterized by more than 70% Windchill revenue growth and four 'domino' wins in the last year."

"We believe that automotive companies who are selecting Windchill are choosing to leapfrog their competition in terms of PLM technology and product development process sophistication," continued Heppelmann. "Windchill is the fastest growing PLM product in the market, and equally important, PTC has the [professional services](#) scale and expertise to help companies implement and extract the most value from their PLM technology. PTC is committed to helping automotive companies as they refresh and expand their PLM technology solutions into enterprise-class business solutions focused on enabling thousands of users across the value chain to collaborate and more effectively participate in the product development process. We believe our new Automotive PLM R&D Center of Excellence will continue to enhance our presence and momentum in the automotive vertical."

PTC's enterprise 3D design, product data management and collaboration solutions customers in the automotive industry include 8 of the top 10 powertrain suppliers and 3 of the top 5 automotive OEMs.

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## ***PTC Reinforces Commitment to Enterprise Customers ITC Infotech now Strategic Services Partner for Enterprise Business Market in India***

9 February 2011

PTC announced that it has selected ITC Infotech, a global IT services company and a fully owned subsidiary of USD 6 bn+ ITC Ltd., as a Strategic Services Partner (SSP) for PTC's enterprise business market in India. ITC Infotech has partnered with PTC for over 8 years.

Mr. Rafiq Somani, Area Vice President, PTC said, "ITC Infotech has been delivering end-to-end IT

# CIMdata PLM Industry Summary

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solutions and services across industry verticals with world-class technology and state-of-the-art infrastructure. With a proven track record of sales, service and support, ITC Infotech was a partner of choice to help PTC expand their service and solution arm in India.”

With the expansion of this partnership, ITC Infotech will now support PTC in delivering their solutions and services to Aerospace, Retail, Footwear and Apparel, Government and Defence customers in India.

Speaking on the partnership, Mr. Ashwani Maheshwari, CEO, India and APAC business said, “With this strategic partnership, we look forward to leveraging emerging market opportunities. Companies are increasingly seeking ways to achieve efficient product realization, and together with PTC, we can add significant value with our end-to-end capabilities.” He further added, “Over the years, we have established a close working relationship with PTC. We have created an exclusive PTC India Solution Centre which focuses on enhanced value delivery to PTC customers.”

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## ***Resource Group Joins Siemens Solution Partner Program as a Value-added Reseller***

14 February 2011

Resource Group has joined the Siemens Solution Partner Program as a value-added reseller for Siemens PLM Software. As a result of this agreement, Resource Group will establish itself as a leading UK business in the supply and installation of Siemens PLM Software’s suite of product lifecycle management (PLM) software. In addition to the software, Resource Group will offer additional support services including implementation, integration with customer’s enterprise applications, product maintenance and frontline customer support.

As a focused provider of engineering support to the Aerospace and Aviation markets Resource Group is superbly positioned to partner with Siemens PLM Software on specific industry-related products such as Teamcenter® software for maintenance, repair and overhaul (MRO) by utilising existing core skills and facilities for MRO training. Resource Group will work in partnership with Siemens PLM Software to deliver Teamcenter for MRO to the European Airline MRO market.

“2011 is going to be an exciting year for Resource Group,” said John Larkin, Managing Director of Resource Group comments. “There is increased recognition in the value of PLM in improving companies and the UK Aerospace supply chain is an excellent focus for Resource Group’s PLM services. The nature of the industry requires large amounts of data managed globally across multiple suppliers within different tiers of the supply chain. This includes design data, manufacturing data, bill of materials, quality documentation, supplier information, the list is endless. Teamcenter provides a single source of data and knowledge that connects all teams and individuals in the work place at all times and we can see this being invaluable to the global aerospace supply base. We are confident that this partnership will benefit our existing customers and provide synergies with our engineering divisions.”

“This agreement with Resource Group adds further value to our portfolio of products and services, and ensures that customers will receive efficient delivery they have come to expect from Siemens PLM Software,” said Martin Hasenstrauch, channel marketing manager Northern Europe, Siemens PLM Software. “Resource Group’s experience in a niche sector will prove very valuable to us in improving our skill set and overall capabilities. The Resource Group’s long heritage in the aviation industry ensures we can increase our market knowledge, in turn aiding our expansion in this market sector.”

Resource Group will offer the full range of software including Siemens PLM Software’s [Teamcenter](#)

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software, [NX™](#) software, a comprehensive digital product development solution; and [Solid Edge®](#) software for computer-aided design (CAD), part of the [Velocity Series™](#) portfolio for the mainstream PLM market.

Resource Group will be launching PLM services in early 2011 and will be looking to add to the existing PLM team based at Worcester to support this activity.

Resource Group is an international supplier of scarce skills to Aerospace, Aviation & Defence sectors providing engineering, recruitment and training solutions.

Resource Group has established a leading position within the market working with large aircraft manufacturers and tier 1 suppliers to support the following programmes: A380, A400M & A350XWB.

Engineering divisions provide outsourced capabilities for real time embedded safety critical software and DMU, CAD, CAM, PLM & PDM support for mechanical engineering.

Manpower supply includes aircrew, professional licensed engineers, production & maintenance technicians and other specialist staff. Today Resource Holding AG has in excess of 1100 people on contracts across the globe.

Our Joint Venture with Lufthansa Technical Training supports our 'Recruit, Train & Deploy' concept. Lufthansa Resource Technical Training (LRTT) is an EASA Part 147 Approved Basic training Organization providing maintenance training for engineers.

Specialist divisions support business aviation, fixed price work, international payroll solutions and aircraft ferrying & positioning services.

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## ***The Dawn of a New Era; Planit's new Global Human Resources Director***

16 February 2011

Planit Software Group's recently promoted Global Human Resources Director sees the focus of her new role as providing staff with opportunities to learn and progress.

Dawn House says she will ensure that wherever staff are based around the world, the only thing holding them back will be their own drive.

In her new role she is responsible for HR requirements for all Planit's 300 staff around the world. "A company's greatest resource is its employees," she says. "Without good employees even the best business plans may fail. By focusing on Planit's employees and partnering with managers to help them develop their staff, HR can help everyone stay focused on their jobs, ultimately making the business more efficient. Employees can either make a company great, or they can break it."

While addressing the general differences in each country's employment laws, specifically between America and the United Kingdom, she says Planit's staff are remarkably similar, no matter where they live and work. "While different motivators may drive them to be their best, everyone just wants to be an integral part of Planit's success.

"I'm intending to build a Human Resources department that focuses on 'Doing The Right Thing' for our staff, our external customers and our business. We'll be bringing the right people together across the business to solve problems, while consistently working to break down any barriers."

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Based at Planit's Tuscaloosa office in the United States, Dawn House has worked for the company for ten years, and was previously U.S. Director of Human Resources. After gaining a Bachelor of Science degree in Business Studies, she has clocked up 20 years experience in accounting, payroll and Human Resources.

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## Events News

### *ASCON Launches a New Series of FREE Computer-Aided-Design Webinars*

16 February 2011

ASCON Group, developer and integrator of professional CAD solutions, is glad to present a new on-line training session based on its easy to learn and cost-effective solution - **KOMPAS-3D V12**. All are welcome to join the webinars to benefit from CAD familiarization, as well as to get support and advice in any questions regarding all the main features of the 3D and 2D modelling software, collaboration abilities, surface modelling, different add-ons for KOMPAS-3D and many others absolutely for free.

Here is the schedule of the upcoming webinars:

№	Theme	Date
1	<b>KOMPAS-3D V12 Key features.</b>	22.02.2011
2	<b>Collaboration functionality:</b> Overview of Import and export possibilities.	15.03.2011
3	<b>Part modeling:</b> Part creation functional overview, Multibody interface, Boolean features, using parameterization, variables.	29.03.2011
4	<b>Surface modelling:</b> Advanced surface and complex shape features and functionality overview.	13.04.2011
5	<b>Assembly creation:</b> Assembly modelling and main functionality. BOM lists.	27.04.2011
6	<b>Steel Structures 3D</b> - Steel structures design in KOMPAS-3D.	04.05.2011
7	<b>Pipelines 3D:</b> Examples of pipelines design with Pipelines 3D.	18.05.2011

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No	Theme	Date
8	<b>Parametrisation in KOMPAS-3D:</b> Parametrization functionality overview.	01.06.2011
9	<b>Multibody interface and boolean features:</b> Tutorial how to work with multibody and boolean features functional.	15.06.2011
10	<b>2D in KOMPAS-Graphic:</b> During this seminar we will demonstrate all process of drawing creation: from creation of the new 2D-document and getting drawing from 3D models till printing.	29.06.2011
11	<b>Sheet metal:</b> Review techniques of sheet metal functional of KOMPAS-3D.	13.07.2011
12	<b>CAE analysis in KOMPAS-3D:</b> Examples of working with application APM Studio FEM and Universal mechanism express.	27.07.2011

To register for webinars or get additional information about KOMPAS solutions, please email [contact@ascon.net](mailto:contact@ascon.net).

The number of participants is limited so register now.

Prepare for webinars and download KOMPAS-3D V12 30-Days full-functional Trial at [ascon.net/download/kompas/](http://ascon.net/download/kompas/).

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## ***Bluebeam Software to Help Ecobuild Attendees Implement Sustainable Communication Processes***

15 February 2011

In two weeks [Bluebeam® Software](#) is heading to London to help project teams leverage the power of PDF to implement sustainable communication processes. Bluebeam will be demonstrating how PDF editor [Bluebeam PDF Revu®](#) digitizes project communication from design, through bid, and build at the upcoming [Ecobuild](#) conference and exhibition.

“Bluebeam enables project teams across the globe to go paperless by sharing, reviewing, annotating and editing PDF copies of drawings and other design documents rather than printing and shipping paper,” said Stephani Haynes, Bluebeam Software Director of Worldwide Marketing. “Revu has been proven to make project communication more sustainable by reducing paper usage by up to 85% and improving productivity up to 60%.”

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Bluebeam delivers these incredible results by stopping paper trails before they start. The software includes plugins to AutoCAD®, Revit® and MS® Office for one-button PDF creation. Next, Revu offers industry-standard annotations for electronically commenting on PDF drawings and documents including text, highlights, shapes with hatch patterns, CAD symbols, clouds and measurements. Custom markups may be saved in Bluebeam's exclusive Tool Chest for easy reuse. Advanced features include automatic drawing comparisons, integrated markup tracking, tablet PC compatibility and Bluebeam Studio™ for real-time collaboration.

Ecobuild is taking place March 1st – 3rd at the ExCeL Centre in London. All attendees interested in reducing paper usage, increasing productivity and communicating more effectively are encouraged to visit Bluebeam Software in **stand S1221** for a product demonstration, consultation with a Bluebeam representative and free 30-day trial CD.

Bluebeam Software products are available in Europe through a network of authorized resellers. Visit [www.bluebeam.com](http://www.bluebeam.com) for more details.

## About Ecobuild

Ecobuild is the world's biggest event for sustainable design and construction and the UK's largest construction event of any kind. The conference and exhibition is taking place March 1st – 3rd at the ExCeL Centre. For more information, go to [www.ecobuild.co.uk](http://www.ecobuild.co.uk).

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## ***CGTech Announces 22 North American VERICUT Users' Exchange Events***

15 February 2011

Each year, CGTech hosts many VERICUT Users' Exchange (VUE) events around the world. In 2010, over 1,000 VERICUT users attended more than 40 VUE events in 14 countries. CGTech has already announced 22 North American VUE locations scheduled in 2011 and the first will be held on Monday, March 7th in Irvine near the company headquarters. Attendees will learn about new software features, tips & tricks for improving manufacturing efficiency, and will have the opportunity to express ideas about the future direction of the software. There is no charge to attend.

VERICUT Users' Exchange

Monday, March 7, 2011

8:00 a.m. – 3:00 p.m.

Hyatt Regency Irvine

Irvine, CA

All of the tips & tricks on the agenda are customer-driven. In addition to tips & tricks, the agenda will include a review of enhancements added in VERICUT 7.1, released in early February. Version 7.1 contains over 400 customer requests and further improvements to VERICUT's user interaction, simulation capabilities, analysis tools, cutting tool creation, and CAD/CAM integration. CGTech will also briefly demonstrate recent advancements in VERICUT Composite Applications, simulating 6-axis robotics, and programming and simulating automated fastener machines.

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To register for an event, call (949) 753-1050 or visit [cgtech.com](http://cgtech.com) . For a list of all currently scheduled VUE events, please visit: <http://cgtech.com/usa/cgtech/vue/>. Additional locations are being added regularly.

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## ***CGTech to Show New Fiber Placement Programming Software Features***

18 February 2011

At the 2011 JEC Composites show, March 29-31, 2011 at the Paris Expo, Porte de Versailles, CGTech will be demonstrating the process of programming automated composite machinery.

Visitors to CGTech's stand, X46, will have the opportunity to receive a thorough overview of the steps needed to get from a CAD designed composite part to CNC programs that drive an Automated Fiber Placement (AFP) machine. There will be updated information on projects presented at past JEC events, as well as information on new projects that highlight the implementation and use of machine independent off-line NC programming software for AFP machines. Current customer projects to be highlighted include: a large one-piece fuselage barrel on an Electroimpact multi-machine AFP fabrication cell; an aircraft inlet duct on a Cincinnati Viper 1200 AFP machine; the challenges encountered supporting a flexible AFP gantry machine; layup of a U-channel structure on a 7-axis mTorres AFP machine; and aircraft skin panels and experiments using an AFP head mounted on a 6-axis robot.

“Manufacturers of AFP machinery typically supply in-house developed off-line NC programming software with their machine, forcing companies to inconveniently adopt multiple software applications for multiple brands of machines,” said CGTech Product Marketing Manager Bill Hasenjaeger. “But to survive in this industry, a company must be able select the best machine for the job, without the cost and risk associated with being locked to a single machine supplier.”

Throughout the show, CGTech will be demonstrating VERICUT Composite Applications: VERICUT Composite Programming (VCP) & VERICUT Composite Simulation (VCS).

VCP reads CATIA V5 or ACIS surface models, and external ply geometry and information from FiberSim or CATIA V5. VCP then adds material to fill the plies according to user-specified manufacturing standards and requirements. Layup paths are linked together to form specific layup sequences and are output as NC programs for the automated layup machine.

VCS reads CAD models and NC programs, either from VCP or other composite layup path-generation applications, and simulates the sequence of NC programs on a virtual machine. Material is applied to the layup form via NC program instructions in a virtual CNC simulation environment. The simulated material applied to the form can be measured and inspected to ensure the NC program follows manufacturing standards and requirements. A report showing simulation results and statistical information can be automatically created.

[CGTech](#) will also be exhibiting its latest version of VERICUT CNC machine simulation and optimization software. VERICUT is CNC machine simulation, verification and optimization software that enables users to eliminate the process of manually proving-out NC programs. VERICUT simulates all types of CNC machining, including drilling and trimming of composite parts, water jet, riveting, robotics, mill/turn and parallel kinematics. VERICUT runs standalone, but can also be integrated with leading CAM systems.

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## ***CNC Software, Inc. Showcases Mastercam® X5, Unveils New Swiss Software at PMTS 2011***

February 2011

Precision Machining Technology Show 2011 will feature the latest in the line of Mastercam machining software. Stop by **booth # 1212** at the Greater Columbus Convention Center, Columbus, OH, April 19-21, for a look at the latest release, Mastercam X5, and a preview of the upcoming Mastercam Swiss Expert.

### **Be the First to See Mastercam Swiss Expert**

CNC Software has acquired well-respected Swiss machining software SylvieXpert. Developed in Switzerland for Swiss machines by experts in the Jura region of Switzerland where these machines were invented, we've been refining and adapting it. We will be previewing the 2011 release of Mastercam Swiss Expert at this show.

### **Mastercam Mill X5 – Built for Speed**

We'll also be spotlighting the newly released Mastercam X5, including:

- Fast, aggressive, intelligent roughing

Mastercam's new 3D surface high speed OptiRough toolpath is a new technique designed to remove large amounts of material quickly using its successful dynamic milling motion. Large, aggressive cuts are followed by fast, smaller up-cuts, safely delivering a fully roughed part faster than ever.

- Smart Hybrid Finishing

Hybrid finishing intelligently blends two efficient cutting techniques in a single toolpath. This new toolpath evaluates the model shape and smoothly switches between Constant Z cutting and Constant Scallop machining. The result is a dramatically finer finish with less work.

- Streamlined multiaxis machining

Mastercam's multiaxis suite has new machining techniques and a new, easy, workflow-oriented interface. Mastercam lets you choose the basic type of work you're doing using clear illustrations, and then gives you a clear, step-by-step process for defining how you'll cut the part. Mastercam's multiaxis machining also includes a new highly specialized interface for smooth, gouge-free engine head porting.

- New Dynamic Milling Techniques

Dynamic milling constantly adjusts the toolpath to ensure the most efficient cut possible and allows use of the entire tool flute length, often eliminating the need for multiple depth cuts. New dynamic milling techniques include Dynamic Rest Mill and Dynamic Contour. Dynamic Rest Mill helps ensure maximum tool efficiency during cleanup routines. Dynamic Contour uses an intelligent, efficient high speed contouring strategy to remove material along walls. It supports multi-passes and can optionally include finishing passes.

For more information on Mastercam X5, and to view videos on the new software features, please visit <http://www.mastercam.com>.

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## *Delcam to Preview New Orthotics CAD/CAM Software at Five March Events*

14 February 2011

Delcam will preview new versions of its OrthoModel and OrthoMill software for, respectively, the design and manufacture of custom orthotic insoles at five events in March. The company will exhibit at the Mid-West Podiatry Conference in Chicago from 3rd to 6th March, the BAPO Conference in Harrogate from 4th to 6th March, the Podiatry Managers' Conference in Northampton from 7th to 9th March, Salon de la Podologie in Paris on 11th and 12th March and the American Academy of Orthotists & Prosthetists in Orlando from 16th to 19th March.

The main focus in both new programs will be on increasing the productivity that is possible with the Delcam systems, especially for companies making soft insoles from EVA. Other enhancements in OrthoModel include improved methods for the development of foot-positive designs, while the new OrthoMill program makes it easier for users to import custom insoles from other design packages. To find out more, please visit [www.delcam-healthcare.com](http://www.delcam-healthcare.com).

As with all new releases of the software, the enhancements to the latest versions have been developed in association with Delcam customers from laboratories, podiatrists and orthotists around the world, coupled with Delcam's knowledge of footwear design and manufacture gained from its relationships with leading brands such as Nike and Reebok. This combination of expertise has been a key part of the success of the software. Sales tripled from 2009 to 2010, making orthotics the fastest-growing area of Delcam's business.

"Typical users with OrthoModel and OrthoMill have been able to increase their output from 200 pairs to 1,000 pairs per month by replacing the expensive, slow and messy casting process with our simple, non-contact digital solution," claimed Chris Lawrie, Delcam's Healthcare Business Development Manager. "Now those companies want even faster solutions so that they can move up to 2,000 pairs each month, while our largest customers need to produce hundreds of thousands of units per year."

The most important enhancement to OrthoModel is the ability to create a library of 3D met pads and met dome models that can be wrapped onto the foot orthotic to complete the design. This will make the design of soft orthotics much faster since it is quicker to add these elements from a library than to create a new shape for every patient. Delcam will supply an initial library with the software, and the user can then edit and add to this range with their own designs.

In a related development, the editing of curves that define areas for cut-outs has been improved to allow quicker and easier modification.

The other significant improvement has been to extend the ability to manufacture foot-positive patterns to cover all types of functional and accommodative orthotic designs. The patterns can be used to produce insoles from materials that are difficult to machine, such as carbon fibre-reinforced plastics.

The ability of OrthoMill to handle high volumes of orders has been increased by allowing the software to program multiple blocks of material for cutting on a larger machine in a single project. This will again be important for manufacturers using EVA or polyurethane that want to cut orthotics from materials of differing densities in one operation. Previously, the toolpaths for each block would need to be calculated separately, which would take much longer.

Another enhancement in the new release is the possibility for users to model their own blocks of material, including the placement of drill holes, the creation of boundaries for part-used blocks and the specification of areas of different densities. Orthotics can now be oriented to their lowest height profile.

# CIMdata PLM Industry Summary

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This allows tall items to be fitted into thinner blocks and so improves material utilisation. Finally, the orthotic can be machined with a support strip around its full circumference, to maintain its position during machining prior to the final cutting out operation. This approach is more suitable than using tabs when cutting more flexible materials

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## ***Delcam to Promote Healthcare Division at UKTI's Life Sciences IBIZ 2011***

18 February 2011

CAD/CAM developer Delcam will promote the latest developments from its Healthcare Division at the UKTI Life Sciences International Business Zone to be held on 9th and 10th March within the Healthcare Innovation Expo in London. The company established its dedicated Healthcare Division in 2009 to provide a greater focus on this increasingly important part of its business. The Division helps companies across the medical, dental and associated industries to take advantage of the latest computer-based design and manufacturing techniques.

“Sales of our healthcare systems have more than trebled since we launched the Healthcare Division,” claimed Business Development Manager, Chris Lawrie. “However, most of this growth has come from business in Europe, the USA and Australia. We expect IBIZ to help us to identify new markets in a wider range of countries, especially in Asia.”

Companies in the healthcare industry face the same demands from their patients that Delcam's traditional engineering clients see from their customers for faster delivery of better and cheaper products. Patients want to receive higher quality products and services, and they want to complete their treatment in the shortest-possible time. At the same time, healthcare companies are under pressure to provide this higher quality at lower cost and to increase their productivity to meet the growing demand. Delcam believes that these requirements can only be met through the application of more advanced and more automated technology.

Delcam's increased emphasis on the healthcare industry comes at a time when the sector is expanding rapidly and when it is much more receptive to computer-based technology. The aging population in industrialised countries and the growing affluence of the emerging economies mean that the healthcare industry is seeing global growth. Through its existing engineering business, Delcam is established in more than 80 countries worldwide and so can provide international support to larger healthcare providers and original equipment manufacturers.

Equally, Delcam's focus on the toolmaking and subcontracting industries means that the company's staff are used to dealing with smaller companies on a local level. All Delcam offices, whether wholly-owned subsidiaries, joint ventures or independent resellers, are renowned for the high level of support they provide to all their customers.

Delcam has, of course, been active in many areas of the healthcare business for several years. Its design, reverse engineering, machining and inspection software are used in a wide range of applications from the production of prostheses, through to the manufacture of surgical instruments and all types of medical packaging. This is especially true for the PartMaker machining system for turn-mill equipment and Swiss-type lathes. These machines are used extensively for the manufacture of medical and dental components, to the extent that around 70% of PartMaker sales already come from the healthcare industry.

# CIMdata PLM Industry Summary

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More recently, Delcam has introduced several specific products for the healthcare market. These include the DentCAD and DentMILL programs for the design and manufacture of dental restorations, which were awarded the Queen's Award for Enterprise in the Innovation category, and the OrthoModel and OrthoMill software for the development of orthotics. The company also offers special versions of its CRISPIN range of footwear design and manufacturing software for the production of orthopaedic footwear.

The common theme with all these products is that they take existing Delcam technology and add a dedicated interface that uses imagery and terminology from the healthcare sector. This makes the software easy to learn and quick to use for healthcare professionals, even those that are not familiar with using computer-based design and manufacturing. Furthermore, all of this dedicated software has been developed in association with leading practitioners in the various areas of the healthcare industry. Support and advice from these experts continues to guide the further development of Delcam's programs.

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## ***EUROSTEP Announces the Share-A-space Forum 2011, May 19-20 in Stockholm***

February 2011

The Forum is for those who are using or considering using Share-A-space. It is also for Share-A-space partners.

Eurostep and Partners will present why Share-A-space is a leading PLM Collaboration Software.

By attending you will learn how Share-A-space can help you in your business, the features with Release 7 and the power of Standards based PLM. The Forum is an excellent opportunity for networking with Share-A-space users, Eurostep staff and with Share-A-space partners.

Share-A-space has been called "Game Changing" and Eurostep has received awards from Microsoft as well as Logica for the Innovative approach with Share-A-space.

### **Agenda (preliminary)**

#### **May 18**

18.00 – 21.00

Pre meeting Welcome reception at Eurostep's office

#### **May 19**

09.00 – 10.00

Registration

10.00 – 12.00

Eurostep and Share-A-space Update

Delivering benefits

12.00 – 13.00

Lunch

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13.00 – 15.00

Customer Projects with Share-A-space

15.00 – 15.30

Break

15.30 – 17.30

Interacting with Share-A-space

- End user interaction
- System interaction

17.30 – 19.00

Visit the exhibition, drinks and snacks

19.00 – social event, boat tour at Lake Mälaren in Stockholm

## **May 20**

09.00 – 10.00

Microsoft and Logica – Share-A-space business opportunities

10.00 – 12.00

Breakout sessions

- Systems Engineering
- Product Support
- BIM
- SharePoint/Share-A-space

12.00 – 13.00

Lunch

13.00 – 13.45

The plan ahead for Share-A-space

13.45 - 14.00

Summary and closure

14.00 – 16.00

Individual meetings per request at conference centre or office

<http://events.linkedin.com/Share-space-Forum-May-19-20-2011/pub/553882>

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***48th Design Automation Conference Creates “Cool WIP” Initiative***

16 February 2011

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[The Design Automation Conference](#) (DAC) has created a Work-in-Progress (WIP) interactive track at DAC 2011 to allow participants an opportunity to present and discuss current work and early results. Accepted WIP submissions will be presented at an interactive poster session open to the DAC community. The 48th DAC will be held at the San Diego Convention Center in San Diego, California, from June 5-10, 2011.

A WIP submission must clearly specify a technical problem, outline a solution, and provide some early results. WIP submissions will be reviewed by DAC's prestigious Technical Program Committee, consisting of 80 academic and industry experts in the field. Authors of accepted WIP submissions will have the option of placing a 100-word summary on the DAC web site. DAC organizers have dubbed this initiative "Cool WIP."

"Cool WIP provides researchers an opportunity to present work in the early formative stages," said Soha Hassoun, DAC's technical program co-chair. "Our aim with this new track is to give authors a chance for early feedback on their work from other members of the DAC community, and to provide the community with an interactive event that facilitates networking among attendees."

WIP submissions must be received no later than 5 PM, MST, Friday, March 1, 2011. The WIP submission form and guidelines are available at <http://www.dac.com>.

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## ***Intergraph® CADWorx® P&ID Professional Data Import and Export Using PIDMO to Be Discussed in February 18th ECE Design Webinar***

14 February 2011

Intergraph CADWorx P&ID Professional data import and export using the PIDMO database interface will be discussed in a webinar on February 18, 2011, scheduled for 11:45 a.m. - 12:15 p.m. CST and presented by ECE Design, an Intergraph CADWorx & Analysis Global Network Partner. During the webinar, the leader will demonstrate how PIDMO allows project managers, engineers, purchasing managers, and other non-CAD users to import and export data from their project databases to and from Microsoft Excel so that they can access valuable information stored in their process and instrument diagrams (P&ID). Developed by ECE, the PIDMO tool allows them to access component information, filter for bills of materials (BOM), compile cost estimates, create project management worksheets and instrument and equipment datasheets, and more.

To register on this webinar, visit <https://www1.gotomeeting.com/register/769730920>.

For more information on Intergraph CADWorx, visit <http://www.intergraph.com/products/ppm/cadworx/>. For information on Intergraph's analysis products visit <http://www.intergraph.com/ppm/analysis.aspx>. For information on ECE Design, visit <http://www.ecedesign.com>.

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## ***MESA International North America & European Conferences Call for Speakers Deadline Extended***

February 2011

Abstract Deadline **EXTENDED** to: **Friday, February 25, 2011**

Have you made an extraordinary change or impact in your business or industry?

# CIMdata PLM Industry Summary

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Have you taken a risk and saw benefit in the results?

[Share YOUR story with MESA.](#)

## **Conference Goal for Presentations and Speakers**

Our goal is to deliver the best practices that can positively yield best-in-class learning experiences for our conference attendees. Presentations should be given by those who have actually achieved results, inspire attendees and help them clear the clutter and achieve real-time operations excellence.

## **Selection Criteria**

Preferences will be given to those companies whose topics support the vision, strategic initiatives and theme of the conference (see below). To be considered, presenters must complete the [online submission form](#) in its entirety.

## **Presentations will be selected according to the following criteria:**

Appropriateness and alignment of the topic with the conference vision, MESA Strategic Initiatives and theme (see below).

Focus on how your operations management/plant-wide IT systems support implementation of one or more key initiatives. Subject matter may range from planning and implementation to challenges and results.

Ability to show operational metrics and/or financial metrics.

Features Manufacturer/Producer presenters or a joint presentation between a Manufacturer/Producer and Vendor/Consultant.

## **MESA Model and Strategic Initiatives**

Cloud Computing

Lean

Quality & Compliance

Safety

Interoperability

Real-Time Enterprise

SOA in Manufacturing

Sustainability

Asset Performance Management (APM)

Continuous Process Improvement

Industrial Business Process Modeling

Product Lifecycle Management (PLM)

For more information on MESA's model and strategic initiatives, visit <http://www.mesa.org>

***2011 Theme for both North America and European Conferences***

***Cloudy with a Chance for Profits***

## North American Conference

September 19-21 in Orlando, Florida

## European Conference

November 8-10 in Utrecht, The Netherlands

How to Submit – Deadline Extended!

Please review all information included on this page before submitting. [Click here](#) to complete your submission form.

Submissions must be received no later than Friday February 25, 2011, at 5pm ET. Please note that submissions are NOT reviewed or accepted until after this date and submission does not guarantee inclusion in the conference agenda.

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## ***PROSTEP PDF Generator 3D Webinars 2011, February 18 & March 3***

February 2011

**What:** PROSTEP presents PDF Generator 3D

**When:** 18 February 2011, 11 a.m. EST (UTC -5) (New York)

### **Details:**

PROSTEP PDF Generator 3D for Adobe® LiveCycle® ES

Create a single, dynamic PDF document that meets all your needs.

Combine and share it with anyone beyond the firewall using free Adobe® Reader® software.

- 3D CAD data
- metadata from existing backend systems
- almost any file
- and interactivity
- improve communication
- make decisions faster
- reduce design errors
- improve quality
- increase productivity

### **Topics**

- PDF Generator 3D

- Functionality

- Architecture and licensing

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- Application areas
- Collaboration between PROSTEP and Adobe
- Contents
- Aims

**Webinar language:** English

**Duration:** approx. 30 min.

**Registration:** <http://www.pdfgenerator3d.com/en/events/all-webinars/registration-us-webinar-1.html>

**What:** The whole world of Engineering in PDF

**When:** 3 March 2011, 11 a.m. EST (UTC -5) (New York)

**Topics:**

- Engineering data in PDF – an overview
- Creating, distributing and protecting the PDF documents
- Using PROSTEP PDF Generator 3D and Adobe LiveCycle in business processes

**Webinar language:** English

**Duration:** approx. 30 min.

**Registration:** <http://www.pdfgenerator3d.com/en/events/all-webinars/registration-us-webinar-2.html>

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## ***Sconce Solutions Presents Free Seminar, “Using Geometric Search to Enhance Automatic Classification and Design Re-Use”, March 24 in Troy Michigan***

18 February 2011

Join Sconce Solutions and CIMdata on March 24 at the Troy Marriott for this informative seminar featuring CIMdata’s John MacKrell on the benefits of using Geometric search and Sconce Solutions’ Alexander Kimmel introducing Sconce’s new solution BINGO!, an innovative component search solution for the engineering world using 2D/3D shapes as input.

**When:** March 24, 2011 from 9:00 am-12:30 pm in meeting room AB

**Where:** Troy Marriott, 200 West Big Beaver, Troy, MI 48084

**Keynote speakers:**

- John Mackrell, Vice President, CIMdata
- Alexander Kimmel – Regional Director, Sconce Solutions

**Agenda:**

- **9:00 – 9:10**  
Introduction –
- **9:10 – 9:40**

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CIMdata Presentation on the need for and benefits derived from Geometric Search

- **9.40 – 9.55**

How Bingo! – Geometric search software from Sconce saves money for the organization by removing duplicates, classifying data and enhancing Design Reuse

- **9:55 – 10:00**

Break

- **10:00– 11.30**

Live Bingo! Demonstration –

- **11.30 – 11.45**

Q@A –

- **11.45 – 12.30**

Lunch

## Registration:

<http://www.sconcesolutions.com/> - Upcoming Events

## Contact for more information:

Name: Alexander Kimmel

Phone number: 416-569-7228

Email: [alex@sconcesolutions.com](mailto:alex@sconcesolutions.com)

Learn more about Bingo! (CIMdata Commentary: “[Geometric Search Enhances Product Development](#)”)

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## ***ShipConstructor Showcases New Software at Seatec Italy***

11 February 2011

[ShipConstructor Software Inc.](#) will showcase the latest version of its shipbuilding CAD/CAM application at Seatec Italy, February 16-18, Carrara Italy, Stand D28 857, and also will highlight the new features available in the next version scheduled to be released in March.

Several new European clients have recently signed up specifically to take advantage of the program’s new features which improve the ease of editing, increase speed and improve functionality.

Nick Danese, ShipConstructor Senior Partner EMEA says, “We have seen a number of new European clients in the mega-yacht and ship industries come on-board recently due to their excitement about the new features. ShipConstructor Software Inc.’s dedication to development based on end-users’ requirements played a recognizable role in tipping the balance in our favor.”

## **ShipConstructor 2011 New Features**

•**Enhanced support for Multiple Product Hierarchies** – Allows multiple build or product breakdown strategies to be defined and to drive production from a single project.

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- **Enhanced Revisions Management** – More revision types and improved user interface for revision search and review. Revisions can also be exported for review in a web browser or Excel.

- **Project Split & Merge Performance Improvements** – Partition split, merge, or refresh files into manageable chunks for simpler transmission.

- **Unique identifier in AutoCAD OPM and COM interfaces** – Part GUID information is more easily accessible for simpler integration with other software.

- **Negative X Coordinate in Profile Endcut Definitions** – Enhanced parametric endcuts that support negative X origin coordinates.

## ShipConstructor 2011 R2 New Features

- **Project Equipment List** – Manage and reconcile the project master equipment list to the 3D model in ShipConstructor.

- **Automatic Production Drawing Update** – Increase user efficiency by updating of multiple production drawings in a single operation.

- **Improvements in Assembly and Arrangement Drawing Update Performance** – Less time spent waiting with assembly and arrangement drawing creation and updating performance improved by 10% to 50%.

- **Updatable Twisted Stiffeners** – Shrink the design spiral between Hull and Structure Update twisted stiffeners in structure drawings with changes from hull drawings without having to re-export the part.

- **Reports by Model Drawing** – Easier work-in-progress reports by generating reports for content within individual model drawings.

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## *Thermoplastics Composites Technology Meeting at Delcam*

17 February 2011

A dissemination meeting to report the results of the ADCOMP project on Thermoplastic Composites Technology and Business is to be held at Delcam's Birmingham headquarters on Wednesday 17th March.

Sponsored by Advantage West Midlands and the National Composites Network, the ADCOMP project aims to raise awareness of potential business growth in thermoplastic composites and to develop the supply chain for products made from the materials in the West Midlands. Potential applications include aerospace and automotive components, sports equipment and even furniture.

The dissemination event is aimed at designers and engineers that are experienced with the use of composites and those that are considering using thermoplastic composites for the first time. The programme for the meeting will cover materials and processing developments, as well as the business opportunities offered by thermoplastic composites.

Details will be given on the two demonstrator manufacturing exercises undertaken within the project to assess the technical and financial performance of thermoplastics in aerospace and engineering applications. These were a leading edge concept design for GKN Aerosystems and a replacement for the front fender support on the JCB Fastrac.

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To register online, please go to <https://www.eventsforce.net/tctb>

For further information on the meeting, please contact Kinnary Doshi at TWI, either by email to [kinnary.doshi@twi.co.uk](mailto:kinnary.doshi@twi.co.uk) or by phone on 01223899365

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## Financial News

### ***Mentor Graphics Corporation to Release Fiscal Q4 2011 Financial Results on February 24, 2011***

18 February 2011

Mentor Graphics Corp. announced that the company will release financial results for the fiscal fourth quarter, ended January 31, 2011, on Thursday, February 24, 2011 at approximately 4:15 p.m. Eastern time. A conference call with investors to discuss the financial results is scheduled for 5:00 p.m. Eastern time.

The company today affirmed that it expects to meet or exceed its outlook for the fiscal fourth quarter and full fiscal year 2011, as provided on November 19, 2010. This guidance was for revenue of about \$293 million, non-GAAP earnings per share of approximately \$0.46, and GAAP earnings per share of about \$0.40 for the fourth quarter, up from reported revenues of \$237.1 million, non-GAAP earnings per share of \$0.30, and GAAP earnings per share of \$0.39 for the fourth quarter of the preceding fiscal year. For the full fiscal year ending January 31, 2011, the company expected revenue in the range of \$900 million, non-GAAP earnings per share of about \$0.67, and GAAP earnings per share of approximately \$0.19, as compared to reported revenues of \$802.7 million, non-GAAP earnings per share of \$0.47, and a GAAP loss per share of \$0.23 for the preceding fiscal year. For a reconciliation of GAAP to non-GAAP guidance, see “Discussion of Non-GAAP Financial Measures” below.

Mentor Graphics’ board and management team are focused on delivering shareholder value. The company’s share price has grown by more than 70% over the last year and it also grew by more than 70% during the prior year period, for a two year growth of approximately 200%, significantly outperforming its peer group and the market.

#### **Webcast Participation**

- Live audio webcast at [http://www.mentor.com/company/investor\\_relations](http://www.mentor.com/company/investor_relations). Please register at this website prior to the scheduled call time of 5:00 p.m. Eastern time.
- Conference call replay: Begins February 24, 2011 (7:00 p.m. Eastern time); Ends March 4, 2011 (3:00 a.m. Eastern time). USA 800-475-6701; International 320-365-3844; Access code: 192453

#### **Fiscal Year Definition**

Mentor Graphics fiscal year runs from February 1 to January 31. The fiscal year is dated by the calendar year in which the fiscal year ends. As a result, the first three fiscal quarters of any fiscal year will be dated with the next calendar year, rather than the current calendar year.

#### **Discussion of Non-GAAP Financial Measures**

Mentor Graphics management evaluates and makes operating decisions using various performance measures. In addition to our GAAP results, we also consider adjusted gross margin, operating margin, net income (loss), and earnings (loss) per share which we refer to as non-GAAP gross margin, operating

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margin, net income (loss), and earnings (loss) per share, respectively. These non-GAAP measures are derived from the revenues of our product, maintenance, and services business operations and the costs directly related to the generation of those revenues, such as cost of revenue, research and development, sales and marketing, and general and administrative expenses, that management considers in evaluating our ongoing core operating performance. These non-GAAP measures exclude amortization of intangible assets, special charges, equity plan-related compensation expenses and charges, interest expense attributable to net retirement premiums or discounts on the early retirement of debt and associated debt issuance costs, interest expense associated with the amortization of debt discount and premium on convertible debt, impairment of long-lived assets, impairment of cost method investments, and the equity in income or losses of unconsolidated entities, which management does not consider reflective of our core operating business.

Identified intangible assets consist primarily of purchased technology, backlog, trade names, customer relationships, and employment agreements. Special charges primarily consist of costs incurred for employee terminations due to a reduction of personnel resources driven by modifications of business strategy or business emphasis. Special charges may also include expenses incurred related to potential acquisitions, abandonment of in-process research and development, excess facility costs, asset-related charges, post-acquisition rebalance costs and restructuring costs, including severance and benefits. Equity plan-related compensation expenses represent the fair value of all share-based payments to employees, including grants of employee stock options. For purposes of comparability across other periods and against other companies in our industry, non-GAAP net income (loss) is adjusted by the amount of additional tax expense or benefit that we would accrue using a normalized effective tax rate applied to the non-GAAP results.

Management excludes from our non-GAAP measures certain recurring items to facilitate its review of the comparability of our core operating performance on a period-to-period basis because such items are not related to our ongoing core operating performance as viewed by management. Management considers our core operating performance to be that which can be affected by our managers in any particular period through their management of the resources that affect our underlying revenue and profit generating operations during that period. Management uses this view of our operating performance for purposes of comparison with our business plan and individual operating budgets and allocation of resources. Additionally, when evaluating potential acquisitions, management excludes the items described above from its consideration of target performance and valuation. More specifically, management adjusts for the excluded items for the following reasons:

- Amortization charges for our intangible assets are excluded as they are inconsistent in amount and frequency and are significantly impacted by the timing and magnitude of our acquisition transactions. We therefore consider our operating results without these charges when evaluating our core performance. Generally, the most significant impact to inter-period comparability of our net income (loss) is in the first twelve months following an acquisition.
- Special charges are incurred based on the particular facts and circumstances of acquisition and restructuring decisions and can vary in size and frequency. These charges are excluded as they are not ordinarily included in our annual operating plan and related budget due to the unpredictability of economic trends and the rapidly changing technology and competitive environment in our industry. We therefore exclude them when evaluating our managers' performance internally.
- We view equity plan-related compensation as a key element of our employee retention and long-term incentives, not as an expense that we use in evaluating core operations in any given period.

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•Interest expense attributable to net retirement premiums or discounts on the early retirement of debt, the write-off of associated debt issuance costs and the amortization of the debt discount and premium on convertible debt are excluded. Management does not consider these charges as a part of our core operating performance. The early retirement of debt and the associated debt issuance costs are not included in our annual operating plan and related budget due to unpredictability of market conditions which could facilitate an early retirement of debt. We do not consider the amortization of the debt discount and premium on convertible debt to be a direct cost of operations.

•Impairment of cost method investments can occur when the fair value of the investment is less than its cost. This can occur when there is a significant deterioration in the investee's earnings performance, significant adverse changes in the general market conditions of the industry in which the investee operates, or indications that the investee may no longer be able to conduct business. These charges are inconsistent in amount and frequency. We therefore consider our operating results without these charges when evaluating our core performance.

•Equity in earnings or losses of unconsolidated subsidiaries, with the exception of our investment in Frontline P.C.B. Solutions Limited Partnership (Frontline), represents the net income (losses) in an investment accounted for under the equity method. The amounts represent our equity in the net income (losses) of a common stock investment. The carrying amount of our investment is adjusted for our share of earnings or losses of the investee. The amounts are excluded as we do not control the results of operations for these investments, we do not participate in regular and periodic operating activities and management does not consider these businesses a part of our core operating performance.

•In connection with the Company's acquisition of Valor on March 18, 2010, we also acquired Valor's 50% interest in a joint venture, Frontline P.C.B. Solutions Limited Partnership ("Frontline"). We report our equity in the earnings or losses of Frontline within operating income. We actively participate in regular and periodic activities such as budgeting, business planning, marketing and direction of research and development projects. Accordingly, we do not exclude our share of Frontline's earnings or losses from our non-GAAP results as management considers the joint venture to be core to our operating performance.

•Income tax expense (benefit) is adjusted by the amount of additional tax expense or benefit that we would accrue if we used non-GAAP results instead of GAAP results in the calculation of our tax liability, taking into consideration our long-term tax structure. We use a normalized effective tax rate of 17%, which reflects the weighted average tax rate applicable under the various jurisdictions in which we operate. This non-GAAP tax rate eliminates the effects of non-recurring and period specific items which are often attributable to acquisition decisions and can vary in size and frequency and considers our US loss carry forwards that have not been previously benefited. This rate is subject to change over time for various reasons, including changes in the geographic business mix and changes in statutory tax rates. The GAAP tax rate considers certain mandatory and other non-scalable tax costs which may adversely or beneficially affect our tax rate depending upon our level of profitability in various jurisdictions.

In certain instances our GAAP results of operations may not be profitable when our corresponding non-GAAP results are profitable or vice versa. The number of shares on which our non-GAAP earnings per share is calculated may therefore differ from the GAAP presentation due to the anti-dilutive effect of stock options in a loss situation.

Non-GAAP gross margin, operating margin, and net income (loss) are supplemental measures of our performance that are not required by, or presented in accordance with, GAAP. Moreover, they should not be considered as an alternative to any performance measure derived in accordance with GAAP, or as

## CIMdata PLM Industry Summary

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an alternative to cash flow from operating activities as a measure of our liquidity. We present non-GAAP gross margin, operating margin, and net income (loss) because we consider them to be important supplemental measures of our operating performance and profitability trends, and because we believe they give investors useful information on period-to-period performance as evaluated by management. Non-GAAP net income (loss) also facilitates comparison with other companies in our industry, which use similar financial measures to supplement their GAAP results. Non-GAAP net income (loss) has limitations as an analytical tool, and therefore should not be considered in isolation or as a substitute for analysis of our results as reported under GAAP. In the future we expect to continue to incur expenses similar to the non-GAAP adjustments described above and exclusion of these items in our non-GAAP presentation should not be construed as an inference that these costs are unusual, infrequent or non-recurring. Some of the limitations in relying on non-GAAP net income (loss) are:

- Amortization of intangibles represents the loss in value as the technology in our industry evolves, is advanced, or is replaced over time. The expense associated with this loss in value is not included in the non-GAAP net income (loss) presentation and therefore does not reflect the full economic effect of the ongoing cost of maintaining our current technological position in our competitive industry, which is addressed through our research and development program.
- We regularly engage in acquisition and assimilation activities as part of our ongoing business and regularly evaluate our businesses to determine whether any operations should be eliminated or curtailed. We therefore will continue to experience special charges on a regular basis. These costs also directly impact our available funds.
- We perform impairment analyses on cost method investments when triggering events occur and adjust the carrying value of assets when we determine it to be necessary. Impairment charges could therefore be incurred in any period.
- Our stock option and stock purchase plans are important components of our incentive compensation arrangements and will be reflected as expenses in our GAAP results.
- Our income tax expense (benefit) will be ultimately based on our GAAP taxable income and actual tax rates in effect, which often differ significantly from the 17% rate assumed in our non-GAAP presentation. In addition, if we have a GAAP loss and non-GAAP net income, our non-GAAP results will not reflect any projected GAAP tax benefits. Similarly, in the event we were to have GAAP net income and a non-GAAP loss, our GAAP tax expense would be replaced by a credit in our non-GAAP presentation.
- Other companies, including other companies in our industry, calculate non-GAAP net income (loss) differently than we do, limiting its usefulness as a comparative measure.

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### ***Nemetschek Achieves Record Result***

17 February 2011

Nemetschek AG increased revenues by 10 percent to 150 million euros in 2010, thus achieving the same revenue level as 2008 again. The operating result (EBITDA) increased to a record high: according to preliminary figures, the operating result amounts 37 million euros, an increase of 22 percent over the previous year. The EBITDA margin was 25 percent. The group thus exceeded its record result, which was set in 2007 (EBITDA of 34 million euros). Net income (group shares) rose by 55 percent to 19

# CIMdata PLM Industry Summary

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million euros while the cash flow from operating activities increased by 37 percent to more than 32 million euros.

## Significant increase in revenues from license sales and maintenance contracts

In 2010 the group largely managed to make up for the slump in license sales in the crisis year 2009. The revenues from license sales increased by 16 percent to 75 million euros. The revenues from long-term maintenance contracts have been increasing constantly for years and at an increasingly dynamic pace: in 2010 they increased by a total of 8 percent to 67 million euros. The group's foreign markets recovered above all in the past fiscal year: with a 15 percent increase in revenues to 89 million euros. Revenues in Germany rose by 5 percent to 61 million euros.

The Nemetschek Group managed to grow above all in the Design and Multimedia business units. In the Design unit, revenues increased by 11 percent to 122 million euros, the EBITDA margin in this segment was 22 percent, up from 20 percent in the previous year. In the Multimedia business unit, the revenues even increased by 37 percent to 11 million euros and, at 38 percent, the margin was at a record level (previous year: 29 percent). In the Build segment, revenues remained largely stable at 14 million euros and with a steady, high EBITDA margin of 39 percent. In the Manage business unit, revenues remained almost stable with roughly 4 million euros, the EBITDA margin was 9 percent (previous year: 17 percent).

## Earnings per share up by more than 50 percent

As a result of the considerable growth coupled with a fundamentally stable cost structure, the Nemetschek group achieved an EBITDA of 37 million euros in 2010 (previous year: 30 million euros). At 118 million euros the operating costs were up by 9 percent from the previous year. However, this was largely attributable to revenue-dependent cost items such as dealer commissions and bonuses as well as higher expenses for the market launch of new product versions. Besides there were higher costs for external personnel due to the company-wide implementation of a new ERP-System. At 1,076 (previous year: 1,064) the workforce remained largely unchanged.

According to the preliminary figures, the operating profit (EBIT) increased by 32 percent to 28 million euros. At 19 million euros, the net income (group shares) increased disproportionately by 55 percent. This includes a one-off effect of 1.6 million euros as part of an investment reduction. The earnings per share (group shares, basic) are 1.96 euros, up from 1.27 euros in the previous year.

The strong operating result is also reflected in the cash flow: the cash flow from operating activities increased year-on-year by 37 percent to 32 million euros. The cash flow from investment activities was - 4 million euros. The free cash flow thus amounted to more than 28 million euros.

Compared to December 31, 2009, cash and cash equivalents increased by 34 percent to 31 million euros and exceeded the remaining loans from the Graphisoft acquisition (20 million euros) by 11 million euros. The Nemetschek group has an equity ratio of 56 percent (December 31, 2009: 50 percent).

The complete annual report 2010 will be presented on March 28, 2011.

## Significant growth planned in 2011

After spending 2010 successfully making up for the ground lost in 2009, Nemetschek plans to grow significantly in the current fiscal year: organic revenue growth of around 10 percent resulting in overall revenues of around 165 million euros is planned.

"To achieve our ambitious growth targets we have to invest in our product and service offerings as well

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as in our market presence," emphasized Ernst Homolka, CEO, Nemetschek AG. Nemetschek wants to drive forward with its internationalization activities in 2011; among other things, the company plans to establish a wholly-owned subsidiary in Brazil. In 2010, the group invested almost 24 percent of its revenues in research and development; furthermore, both the group's subsidiary companies and the Nemetschek holding company have planned additional investments in 2011 to make the software solutions web-capable and to be able to offer new services over the Internet in the future.

"We will consistently harness new growth opportunities that arise as a result of the general trend toward cloud computing," explained Homolka. In some areas this includes a moderate expansion of the work force.

Against this background, Nemetschek will achieve an operating result (EBITDA) of around 37 to 39 million euros in 2011 as a whole, which would correspond to an EBITDA margin of around 23 percent. After depreciation and amortization (including PPA) of around 10 million euros the EBIT will amount to between 27 and 29 million euros.

Nemetschek is known for the fact that the strong operating result is also reflected in the operating cash flow. Thus, in the current fiscal year, the company will succeed in almost completely repaying the loan taken to finance the acquisition of Graphisoft. The interest charges will be reduced further as a result. For 2011, the management expects to achieve net income of around 19 to 21 million euros.

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### ***Rand Worldwide Reports Second Quarter Fiscal 2011 Earnings***

14 February 2011

Rand Worldwide, Inc. announced financial results for the three and six months ended December 31, 2010.

Reporting earnings for the first time under new ticker symbol RWWI, the Company reported total consolidated second quarter revenues of \$21.7 million for the three months ending December 31, 2010 as compared with \$11.4 million for the same period in the prior fiscal year. The prior year amounts reflect only the pre-merger revenues of Rand Worldwide. Revenues for the six months ended December 31, 2010 and 2009 were \$38.5 million and \$25 million, respectively. The overall gross margin percentage reported for the quarter was 50.5% which is significantly higher than the 42.8% reported last quarter. This increase is the result of a good revenue mix and a high proportion of commission revenues due to an increase in year-end subscription renewals.

For its second fiscal quarter, the Company realized net income of approximately \$1.3 million, or \$0.02 per share, compared with a loss of \$(0.10) in the same period in the prior year. Year to date, the company recognized a net loss from continuing operations of \$899,000, or loss of \$(0.03) per share, compared with a loss of \$3.2 million, or \$(0.13) for the same period in the prior year.

"We are very pleased to see the realization of the expected benefits of the Avatech Solutions and Rand Worldwide merger positively impact this quarter's results. Our strong sales this quarter, coupled with our lowered expense base resulting from our consolidation efforts, produced outstanding returns validating the reasons for putting these two great companies together," commented Lawrence Rychlak, President and Chief Financial Officer of Rand Worldwide. "In line with previous operating history, the high volume of December subscription renewals significantly contributed to our positive results, but we also saw good revenue growth in our product sales and services business as well. The strong earnings,

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coupled with our combined credit facility, have significantly increased our liquidity and strengthened our balance sheet, nicely positioning us to take advantage of the continued economic recovery,” added Mr. Rychlak.

Company CEO Marc Dulude added, “I am very pleased with this quarter’s results and I am particularly encouraged to see that almost all of our business units, across all geographies, reported increased revenue this quarter. Our teams are intently focused on identifying and capitalizing on opportunities in our new, expanded market and the results are reflecting that commitment.” Mr. Dulude continued, “The fact that this growth is across multiple industries - architectural, engineering and civil, manufacturing, government and education – is indicative that companies and institutions are again investing in technology solutions and services to enable integration of these solutions into existing business processes, as well as training for their employees and tomorrow’s workforce.”

## Conference Call Information

[Rand Worldwide](#) will hold a conference call to discuss its second quarter results at 11:00 am ET on February 14, 2011. The dial-in numbers for the conference call are 1 (800) 510-9834 (domestic) or 1 (617) 614-3669 (International), and enter the passcode (25205828). A live, listen-only Webcast of the conference call will be available to all investors in the Investor Relations section of the Company's Web site.

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

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## ***Synopsys Posts Financial Results for First Quarter Fiscal Year 2011***

16 February 2011

Synopsys, Inc. reported results for its first quarter of fiscal year 2011.

For the first quarter of fiscal year 2011, Synopsys reported revenue of \$364.6 million, compared to \$330.2 million for the first quarter of fiscal 2010, an increase of 10.4%.

"Synopsys began fiscal 2011 with a strong first quarter, putting us well on-track towards meeting our objectives for the year," said Aart de Geus, chairman and CEO of Synopsys. "With a backdrop of a healthy semiconductor industry, we continue to deliver strong technology with our traditional EDA solutions, while achieving meaningful scale with our solutions in higher-growth adjacencies."

## **GAAP Results**

On a generally accepted accounting principles (GAAP) basis, net income for the first quarter of fiscal 2011 was \$48.2 million, or \$0.31 per share, compared to \$132.8 million, or \$0.88 per share, for the first quarter of fiscal 2010. Net income for the first quarter of fiscal 2010 included a one-time \$91.6 million, or \$0.61 per share, tax benefit associated with the IRS settlement for fiscal years 2002-2004, announced on January 12, 2010.

## **Non-GAAP Results**

On a non-GAAP basis, net income for the first quarter of fiscal 2011 was \$68.3 million, or \$0.44 per share, compared to non-GAAP net income of \$62.4 million, or \$0.41 per share, for the first quarter of fiscal 2010. Reconciliation between GAAP and non-GAAP results is provided at the end of this press release.

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## Financial Targets

Synopsys also provided its financial targets for the second quarter and full fiscal year 2011. These targets do not include future acquisition-related expenses that may be incurred in fiscal 2011. These targets constitute forward-looking information and are based on current expectations.

### Second Quarter of Fiscal Year 2011 Targets:

Revenue: \$386 million - \$394 million

GAAP expenses: \$319 million - \$338 million

Non-GAAP expenses: \$292 million - \$302 million

Other income and expense: \$0 - \$2 million

Tax rate applied in non-GAAP net income calculations: 26 - 27 percent

Fully diluted outstanding shares: 150 million - 155 million

GAAP earnings per share: \$0.26 - \$0.31

Non-GAAP earnings per share: \$0.43 - \$0.45

Revenue from backlog: greater than 90 percent

### Full Fiscal Year 2011 Targets:

Revenue: \$1.5 billion - \$1.525 billion

Other income and expense: \$1 million - \$5 million

Tax rate applied in non-GAAP net income calculations: 25 - 26 percent

Fully diluted outstanding shares: 149 million - 154 million

GAAP earnings per share: \$1.03 - \$1.20

Non-GAAP earnings per share: \$1.67 - \$1.77

Cash flow from operations: approximately \$230 million - \$250 million

## GAAP Reconciliation

Synopsys continues to provide all information required in accordance with GAAP, but believes evaluating its ongoing operating results may not be as useful if an investor is limited to reviewing only GAAP financial measures. Accordingly, Synopsys presents non-GAAP financial measures in reporting its financial results to provide investors with an additional tool to evaluate Synopsys' operating results in a manner that focuses on what Synopsys believes to be its ongoing business operations and what Synopsys uses to evaluate its ongoing operations and for internal planning and forecasting purposes. Synopsys' management does not itself, nor does it suggest that investors should, consider such non-GAAP financial measures in isolation from, or as a substitute for, financial information prepared in accordance with GAAP. Synopsys' management believes it is useful for itself and investors to review, as applicable, both GAAP information that includes: (i) the amortization of acquired intangible assets, (ii) the impact of stock compensation, (iii) acquisition-related costs, (iv) other significant items, including the effect of a tax benefit from a settlement with the Internal Revenue Service, and (v) the income tax effect of non-GAAP pre-tax adjustments from the provision for income taxes; and the non-GAAP measures that exclude such information in order to assess the performance of Synopsys' business and for

planning and forecasting in subsequent periods. Whenever Synopsys uses a non-GAAP financial measure, it provides a reconciliation of the non-GAAP financial measure to the most closely applicable GAAP financial measure. Investors are encouraged to review the related GAAP financial measures and the reconciliation of these non-GAAP financial measures to their most directly comparable GAAP financial measure.

To access the unabridged press release with financial tables please click [HERE](#).

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## Implementation Investments

### *Aras Enables Fox Electronics to Speed Time to Market*

16 February 2011

Aras® announced that Fox Electronics, a global leader in frequency control products, has expanded its deployment of Aras to become the company's end-to-end PLM backbone, including concept development and engineering with CAD management and change management, through enterprise quality management, compliance and closed-loop shipping and tracking.

Fox Electronics provides a diverse line of high precision, high quality frequency control products to the worldwide electronics markets with some of the shortest lead times in the industry. The company continually strives to make dramatic cycle time improvements for ever-faster delivery. In product development, Fox rolled out Aras for better collaboration and control with document and CAD file management, Bill of Materials management and online engineering change workflows to speed time to market. For example, the Fox Electronics XpressO product line has redefined industry lead times from more than 10 weeks to 10 days or less, for both standard and custom frequency oscillators.

Fox has also extended Aras to manage the complexity of international shipping processes with a sophisticated solution that integrates directly to the cloud-based online systems of leading carriers including FedEx, UPS and DHL. Aras includes the pre-cartonning and permit processes required by the U.S. Government for exporting goods, as well as customer-specific barcodes, labeling and shipping requirements on a country-by-country basis.

Aras is also integrated with the company's ERP system from Infor to enable full traceability and tracking from product order and inventory selection, to global delivery. Aras automates quality assurance processes across the company to provide a single version of the truth for continuous improvement and ISO 9001 compliance.

“The global electronics market is highly competitive and Aras is critical to the development of quality products and our ability to achieve on-time delivery within the increasingly complex requirements of Customs and other International regulatory agencies,” said Gene Trefethen, CEO of Fox Electronics. “Aras enables us to seamlessly integrate numerous internal and external systems to improve productivity and meet the unique needs of each customer around the world.”

“Fox Electronics is an excellent example of how PLM can deliver value across the enterprise to compete more effectively,” said Peter Schroer, President of Aras. “Too many companies get bogged down on PDM CAD management and never get to the PLM processes in global product development, quality, manufacturing and the supply chain, where real business results are achieved. Aras changes that dynamic.”

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## **Avira GmbH Selects Accept360™ Product Innovation Software**

15 January 2011

Avira GmbH is a leading German software vendor offering antivirus and security management solutions for workstations, file, mail and web servers, PDAs, smartphones and embedded devices.

Avira GmbH selected Accept Corporation's Accept360 SaaS solution as the standard for product portfolio and execution management to provide product requirements prioritization, traceability, organizational flexibility and visibility.

Accept360, by Accept Corporation, is the only end-to-end product portfolio management and execution solution that tightly links company and product strategy with execution to deliver the right products to the right customers at the right time.

Avira GmbH selected Accept360 to capture enhancement requests and ideas from multiple internal and external constituents, prioritize product requirements, provide full traceability of features to ensure contract compliance, and enable cross-organization visibility into common processes for product, portfolio and development management.

Accept360's common repository and best practices process flow enable product managers, business analysts, customers and partners to have access to critical end-to-end information and to adopt a broader solution perspective to Avira's product offerings.

Avira GmbH joins more than 80 leading companies around the world who use Accept Corporation's solutions to drive faster-time-to-revenue and increase product development profitability by linking product development with company strategy through market-based portfolio analysis, requirements prioritization, cross-organizational collaboration, executive visibility, and real-time analytics, including firms such as Oracle, Cadence Design Systems, Activant, Ultimate Software, Iron Mountain and Alcatel-Lucent among others.

### **Supporting Quotes**

"Successfully protecting our more than 100 million business and consumer customers against ever-changing and sophisticated security threats is a hallmark of Avira and the reason for over twenty years of consecutive growth," said Jeroen Oostendorp, Chief Strategic Operations Officer, Avira GmbH.

"Accept360 will help us to bring innovative solutions for all types of computing platforms and environments to market faster and more profitably."

"The fast paced market of packaged security and anti-virus solutions demands continuous product innovation and the ability to efficiently bring new products and features to market," said Bryan Plug, President and CEO, Accept Corporation. "Avira recognized early on that end-to-end product portfolio management was the fastest, most efficient way to drive the product ideation and requirements management process to meet market share objectives."

### **Supporting Resources**

Avira GmbH products and information at <http://www.avira.com/en/company-about-avira>

Accept Corporation information at <http://www.accept360.com>

Accept360 product information at <http://www.accept360.com/solutions>

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## ***'Black Ops Brothers' Create Jaw-Dropping Vehicles with SolidWorks***

15 February 2011

At eight years old, they built a log cabin with a new hatchet. At 10 years, a robotic arm from bike parts. At 27 years, the world's fastest robotic tank and, now, the smallest all-terrain armored vehicle.

Today, with the help of [SolidWorks® software](#), the Howe twins, Geoff and Mike, are able to invent extreme "[Mad Max](#)"-style vehicles with astonishing capabilities. Known in Defense Department R&D circles as the "The Wright brothers of the military," the prime defense contractors also star in Discovery Channel's "[Black Ops Brothers, Howe & Howe Tech](#)" show.

Through their main business, [Howe and Howe Technologies Inc.](#), of Waterboro, Maine, the brothers have produced:

The [Ripsaw](#)® high-speed tank, dubbed "the future of combat" by Popular Science, capable of 80 mph and zero to 50 in 5 seconds;

The [Mini Rip](#) ATV for consumers who want to be unstoppable in the woods;

The [PAV1](#), which is the world's smallest tank, for police and SWAT teams;

The [Subterranean Rover](#), a rugged mining personnel transport vehicle; and

The [Thermite](#) unmanned firefighting vehicle.

"With everything we build, we take the top technologies available and push them to the limits," said President Michael Howe. "We take the same approach when choosing design and fabrication tools. We want the best software and hardware that we can find, so we can test the boundaries of what is possible."

After trying other software, Howe and Howe settled on SolidWorks because it's easy to use and compatible with other tools. "SolidWorks is definitely on the cutting edge of interface design," Howe said. "It has a short learning curve, and our new engineers pick it up in about a week. We can also output different CAD formats, because SolidWorks plays well with others. This makes us compatible with a wide range of customers."

Adopting SolidWorks has streamlined development. The Howe and Howe team makes extensive use of tools for efficient design of weldments, and 3D models drive plasma torch and CNC cutters. Roll-cage fabrication now takes one-tenth the time, and scrap costs are down by 85 percent.

The success of Howe and Howe Technologies has also attracted the interest of Hollywood. The company recently created a highly modified version of the Ripsaw for use as a prop in an upcoming Hollywood film.

"The efficiencies that we've instituted using SolidWorks allow us to compete successfully against the big defense contractors," Howe notes. "We've gone from two guys working off hours to a multi-million dollar research and development company."

Howe and Howe relies on authorized SolidWorks reseller [CADD Edge Inc.](#) for ongoing software training, implementation, and support.

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## *Edgcam Helps UK Space Team Reach for the Stars*

18 February 2011

“The UK Space Modelling Team could not manage without [Edgcam](#) – it has been so useful in helping us become real contenders on the world stage.” Those are the words of former World Champion space model flyer Mike Francies who uses the CNC machining software to make moulds for all the UK team’s models.

As Chairman of FAIR, the organisation responsible for selecting the individual members of the Space Modelling team representing the UK at World Championships and other international events, Mike Francies produces most of the components for the team’s rocket craft.

The retired Design Technology teacher’s long-standing passion for composite materials and CNC technology resulted in him building his own CNC mill/router in his home workshop at Ormskirk in Lancashire. With space model competitions having eight flying categories, each requiring different types of rocket-powered craft, he now produces a wide variety of aluminium moulds on his CNC machine which are then used to manufacture the components out of materials such as carbon and glass fibre .

FAIR, -- Fédération Aéronautique Internationale, Rocketry -- holds a number of trials around the country to determine the team of five or six seniors and three juniors to compete in the world and European championships in alternate years. 2011 sees the European Championships in Romania, followed by the 2012 World Championships in Slovakia.

A former World Champion himself in 2004 in the radio controlled glider category, Mike Francies came to the sport through normal radio controlled model gliding. The difference being that in space modelling his glider is launched vertically with a 40 Newton-second rocket motor, reaching speeds of up to 150 mph. The motor stops after about ten seconds and the radio control then adjusts flaps, ailerons, air brakes, elevators and rudders. The glider has to be in the air for a total of precisely six minutes before making a precision landing in a target area. Points are deducted for every second under or over six minutes that the craft is in flight. One hundred bonus points are gained for landing within a metre of the target, but reduce the further away the glider lands.

Other categories include: altitude; parachute duration where a rocket has to descend for five minutes by parachute; small free flight glider which has to stay airborne for three minutes; streamer duration, where a banner is ejected as the rocket reaches its apex and trails behind the craft for as long as possible; and a category for true scale large models up to 2.5 metres tall, which is not currently flown by UK competitors at European or World Championships.

Edgcam sponsors the UK Space Modelling Team and provides software for Mike Francies’s home-made CNC machine. He says: “I’m probably only tickling the surface of Edgcam’s capabilities, but what it does for me has made the UK real contenders on the world stage in this sport.”

Designs created on Pro/DESKTOP and other CAD systems are readily imported into Edgcam, which then generates the toolpaths for his moulds. “It takes as little as an hour to produce some of these – but it would be impossible to do it any other way. With several thousand lines of code required for each mould I just sit back and marvel at the phenomenal number crunching that must be going on inside Edgcam while it produces the code for me. Then a few moments later I’ve got my toolpath.”

“We don’t build the lightest models, but we build the most efficient because many of the parts are interchangeable.” As an example, he cites an international meeting where one of the UK team made it through to the fly-off for the title, but his craft had been badly damaged. “We managed to cobble another

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model together by adding components from one of mine to his undamaged parts and some of his spares. He went into the fly-off without having tested it...and won silver! It worked because everything was jiggled and moulded, so it fit together perfectly.”

He says the standard of their models is making them the envy of many other teams around the world, and he puts it all down to Edgecam producing shapes such as elliptical wings, that could not be manufactured by hand. “The wings are moulded from carbon fibre with a rohacell acrylic foam core , and the standard way of cutting foam gives a straight taper. To produce elliptical wings for my glider would be impossible without Edgecam. And all our fins have proper aerofoil shapes, which other teams just can’t produce. Edgecam is making our models more efficient all the time.”

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### ***IFS and Mälarenergi Develop Mobile Solution for Asset Intensive Industry***

16 February 2011

IFS and Swedish utilities group Mälarenergi have signed an agreement concerning the delivery of a mobile solution for maintenance-oriented industries. The solution has been developed in accordance with IFS’s agile methodology, whereby customers are involved early in the development project in order to ensure usability and quality.

IFS focuses on close cooperation with customers in order to ensure a product development which is in line with the customers’ industry-specific needs. In this context, Mälarenergi employees have participated in formulating requirement specifications as well as testing and verification of functionality in a live production environment. The solution facilitates a high level of integration and automation, and eliminates previously manual work processes.

“[Mälarenergi](#) has opted for a holistic approach to the field maintenance process, including planning, documentation, spare part handling, costs, measurement value collection, and reporting. Consequently, high demands are placed on the usability and stability of the portable devices. In our experience, the usability has improved by establishing requirement specifications in cooperation with IFS, and by performing extensive and iteration-based verification and test activities”, says Hans Granlund, Project Manager, Mälarenergi. The solution is based on IFS Applications including Enterprise Explorer, which have been implemented at Mälarenergi during the autumn of 2010.

“Mobility is of great importance for us and field maintenance is a logical area for this. We expect that the new mobility solution will produce real business value in the form of simplified and more efficient routines in our daily work processes. This is a prerequisite for achieving improved management and control, which means that we expect more efficient use of our resources and assets,” says Hans Granlund.

The asset intensive and energy industries are both focused industry segments where IFS has a large number of customers worldwide.

“IFS has a long-standing tradition of collaboration with our customers, and we are very proud of our methodology which lets us develop our product offering to our customers within asset intensive industry. We are deeply committed and we make continuous investments in order to maintain our advanced position, making it possible for us to offer added value to the efficiency of our customers’ constant maintenance processes,” says Thomas Säld, VP Research & Development, IFS World Operations AB.

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The mobility solution will be generally available in the latest version of IFS Applications.

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## ***ITC Infotech, in Cooperation with SAP Consulting, Announces Successful Implementation of SAP® BusinessObjects™ Supply Chain Performance Management at Coca-Cola***

16 February 2011

ITC Infotech announced the successful “go-live” implementation by Coca-Cola North America of the SAP® BusinessObjects™ Supply Chain Performance Management application. The implementation – completed in cooperation with SAP Consulting – has been rolled out to multiple users across the North American region and is a key milestone for the Coca-Cola Company, allowing it to effectively align supply chain goals with business goals, providing visibility into end-to-end supply chain processes that will help drive process consistency.

"We certainly like what we have seen so far," said Russ Rodal, Metrics Program Manager, Coca-Cola Company. "SAP BusinessObjects Supply Chain Performance Management aligns very well with the guiding principles of our project: focusing on metrics that need little manual intervention, focusing on metrics that help drive process consistency, and focusing on metrics that are in line with industry standards. The application tightly follows the Supply Chain Council's SCORTM model, and while it allows for customizing the metrics, we are trying not to. And because the SAP NetWeaver® Business Warehouse captures significant details about business transactions, we can aggregate the data on the fly in the application and not be bound by a static data model. So when the business re-organizes, we change dashboards, not solution configuration."

Coca-Cola's global supply chain is one of the most complex networks of plants, bottlers, warehouses and customers. Due to the existence of multiple product lines following multiple supply chains with differing supply chain objectives, Coca-Cola has been facing challenges of bringing in consistency of reporting and having real-time information on which to base tactical and strategic decision making.

ITC Infotech, together with SAP Consulting, has successfully implemented for Coca-Cola North America, SAP BusinessObjects Supply Chain Performance Management. Coca-Cola is now planning a global rollout of the application in the bottler's network, which will help it map, manage and monitor supply chain strategy, having consistent definition and common data sources for metrics across the organization. The implementation of the application is part of Coca Cola's post-merger integration, helping empower its supply chain strategy and tactical decision making through fast and real-time access to critical information and metrics.

"With globally extended and complex supply chains, it's critical for companies to enable actionable insight that supports continuous improvement with an end-to-end view of performance and root-cause analysis," said Thad Dungan, vice president, Solution Management at SAP. "Aligning supply chain strategy with corporate objectives across key lines of business in a timely and cost-effective manner can make all the difference in achieving superior supply chain performance. The SAP BusinessObjects Supply Chain Performance Management application helps address the challenges of growth and profitability by leveraging leading industry-standard content that is supported by a flexible framework to add and modify key performance indicators."

The implementation of SAP BusinessObjects Supply Chain Performance Management was begun by ITC Infotech in July 2010. A project team of 12 experts was involved in the implementation, focusing on supply chain, business warehouse, enterprise portal, delivery and project management. After multiple

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rounds of tests and architectural reviews, the application today reports the supply chain performance for the areas of demand planning, production and customer service. The performance scores are available on a real-time basis and users have the flexibility to create their own reports and dashboards based on their areas of interest and priority.

“By implementing SAP BusinessObjects Supply Chain Performance Management for one of the world’s largest beverage companies with global operations, we are further establishing our leadership and domain expertise in transformation initiatives that take a measurement-driven approach to improving operational and supply chain processes and effectiveness,” said L N Balaji, president, U.S. Operations, ITC Infotech. “We understand the growing complexity of global supply chains and are working with companies to help them leverage performance insights to drive growth and profitability by aligning operations strategy with enterprise objectives.”

ITC Infotech, a participant in the SAP Co-Innovation Lab and the SAP Consulting Partner Program, North America, provides industry-specific accelerators and solution kits, pre-configured business intelligence (BI) content and implementation methodologies to help customers achieve faster time to value.

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### ***MediaTek Adopts Mentor Graphics Calibre PERC as Its ESD and Circuit Reliability Verification Solution***

11 February 2011

Mentor Graphics Corporation announced that MediaTek, Inc., a leading fabless semiconductor company for wireless communications and digital multimedia solutions, has adopted the [Calibre® PERC](#) product as its solution for [electrical rule checking](#) (ERC) to help ensure comprehensive electrostatic discharge (ESD) protection and increase overall product reliability. The Calibre PERC solution increases the level of automation and accuracy of circuit verification, and reduces the number of false errors compared to MediaTek's prior approach.

MediaTek is seeing significant benefits from Mentor's advanced ERC technology and support. Because Calibre PERC is purpose-built for electrical rule checking, it handles MediaTek's specific ERC challenges more comprehensively and accurately with less manual intervention. It also provides MediaTek with more data to diagnose the root cause of ESD failures and other reliability issues.

In addition to checking the existence and proper connectivity of ESD protection devices, MediaTek is also using the Calibre PERC product to measure and verify parasitic resistance between power clamping cells and power/ground bumps along potential ESD paths. They also use the tool to verify correct placement of on-chip ESD components within multiple voltage domains, and maximum geometrical distance between ESD diodes and receiver gate NMOS/PMOS devices.

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### ***Mitsuba Accelerates Electric Controlled Motor System Development Time with MATLAB and Simulink***

17 February 2011

[MathWorks](#) announced that [Mitsuba](#), manufacturer of wiper motors, used [MATLAB](#) and [Simulink](#) to

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develop the controller of the innovative reversing wiper and deliver a complete system in 81% less time than estimated. By adopting [Model-Based Design](#), including automatic production code generation, Mitsuba reduced their project development time from 16 weeks to 3 weeks.

Due to its complex controls, a reversing wiper system is more challenging to design than a conventional system. Additionally, the development process required rework because the previous process relied on paper-based requirements specifications and handwritten code. As a result, the team found most errors in the later stages of development, when fixing them was more time-consuming and expensive.

In order to solve this problem, Mitsuba used Model-Based Design with MathWorks products for control modeling, simulation, verification, and automatic production code generation. The team used Simulink to model control structures, control functions, and test harnesses based on the specification. With Simulink and [SimMechanics](#), they created a plant model including the windshield wiper link mechanism, wiper arm, and body mount. By debugging and testing throughout simulation, before the hardware prototyping stage, Mitsuba developed, verified, and tested in a shorter timeframe. Furthermore, by using models created by Simulink and [Stateflow](#) as a system specification, Mitsuba completed the design review process in 10% of the original design review time and reduced paperwork required at the review stage by 90%.

“Even though both Model-Based Design and MathWorks products were new to us, we saw clear improvements in development speed and product quality,” said Takao Arai, engineer in the Electric Engineering Department at Mitsuba. “Model-Based Design enabled us to identify and solve problems at the stage of requirements specification and early designs instead of late in development using final hardware. By employing Model-Based Design, our design reviews are now quicker, and we can identify defects and problems within the requirements specification more efficiently. We reduced rework and were able to develop a high-quality controller in just 20% of the time it took us previously.”

“We are extremely encouraged to learn that Mitsuba drastically accelerated development time of the reversing wiper system by using MATLAB and Simulink for Model-Based Design,” said Takaaki Shigemitsu, senior industry marketing manager at MathWorks Japan. “Their accelerated development and design reviews and reduction in paperwork demonstrate the extraordinary effects of Model-Based Design.”

The reversing wiper system is currently in production, with monthly shipments of 20,000 – 30,000 units. Mitsuba is reusing components of the wiper system and the plant model on current projects. The company has standardized on Model-Based Design for all new projects including motor control products for hybrid and electric vehicles.

For further details please visit [www.mathworks.com/automotive/userstories.html?file=52391](http://www.mathworks.com/automotive/userstories.html?file=52391)

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### ***Polaris Makes 4 Year Commitment to aPriori Product Cost Management***

16 February 2011

aPriori announced that [Polaris Industries Inc.](#) has renewed its commitment to the company’s [Product Cost Management](#) software platform for another 4 years. Polaris designs, engineers, manufactures and markets off-road vehicles (ORVs), including all-terrain vehicles (ATVs) and the Polaris RANGER™, snowmobiles and Victory motorcycles for recreational and utility use. Polaris recently introduced a new on-road electric powered neighborhood vehicle.

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“Polaris made its first major investment in aPriori in 2007,” said Stephanie Feraday, aPriori’s President and Chief Executive Officer. “Over the past 4 years, Polaris has gained a great deal of experience with our product. They have used nearly every single [manufacturing process cost model](#) we have ever developed, across a wide variety of product lines. This experience has proven, beyond a shadow of a doubt, that providing engineers with real-time visibility to cost delivers significant financial and strategic advantages for their company. This new 4 year subscription commitment is evidence of that fact. We are looking forward to continuing our successful partnership with Polaris far into the future.”

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## ***Valley Manufacturing Goes Live on NGC’s ERP System to Streamline Expanding Manufacturing Business***

16 February 2011

NGC® announced that Valley Manufacturing, a full-package manufacturer of high-quality sportswear and sleepwear for U.S. brands, has implemented NGC's Enterprise Resource Planning (ERP) software to bring new efficiency and productivity to the company’s expanding business. Located in El Salvador, Valley Manufacturing has been managing its supply chain with NGC solutions since 2003. The company wanted to increase operational efficiency throughout its organization, and selected NGC's apparel ERP system to help integrate and consolidate all company departments into a single solution.

NGC's ERP software provides Valley Manufacturing with many significant benefits, including better work flow, higher profitability, reduced costs, superior customer service, improved inventory turns and visibility into the entire enterprise. NGC’s ERP software includes a customizable, configurable EDI system, sophisticated financial accounting, flexible reporting features and other highlights such as:

- Flexible Customer Order Processing: NGC’s ERP enables users to spotlight and report on key indicators specific to any business and project profitability.
- Purchasing: Time-phased raw material requirements lets Valley Manufacturing's users purchase what they need, when they need it.
- Manufacturing/Contractor Management: This feature allows Valley Manufacturing to manage the entire manufacturing process from capacity planning, work order entry and release to factory to inventory control, quality and inbound shipment management and receiving.
- Import Management: With a workflow calendar embedded throughout the system, NGC's ERP helps ensure timely deliveries to Valley Manufacturing's customers while maximizing efficiency and profits.
- Inventory Control: NGC's software allows users to easily see how current inventory and work-in-process will satisfy open orders within specific delivery windows.
- Allocation: Advanced allocation allows users to segregate inventory by warehouse, customer and/or style.

“NGC’s excellent customer service and knowledgeable implementation teams made our decision to move forward with NGC’s new ERP system simple,” said Salvador Llorca, executive vice president, Valley Manufacturing. “In working with NGC for over seven years, NGC has proven to be a reliable, highly professional partner, and we look forward to our expanded relationship.”

"Valley Manufacturing has a solid reputation for quality products, and the company has been a loyal customer and friend to NGC for many years," said Mark Burstein, president of sales and marketing,

[NGC](#). "We are excited to continue working with Valley Manufacturing to ensure that they take full advantage of all the benefits of NGC's ERP system."

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## Product News

### ***Achronix and Mentor Graphics Provide State of the Art Physical Synthesis Support for Speedster22i FPGAs***

15 February 2011

[Achronix Semiconductor Corporation](#) announced the closing of a formal agreement with Mentor Graphics Corporation to provide advanced synthesis support for Achronix Semiconductor's Speedster22i Field Programmable Gate Arrays (FPGAs). Based on Intel's 22nm process technology, Achronix Speedster22i shatters the limitations of current FPGAs by offering cost-effective production of high performance, high density, IP-rich FPGAs. In addition to providing logic synthesis for the 22nm Speedster22i FPGA platform, Mentor Graphics Precision Advanced RTL Achronix Edition includes state-of-the-art physical synthesis to implement complex designs with superior quality of results.

Mentor is the first EDA provider to offer physical synthesis support for Speedster22i devices. Working in conjunction with the 4th generation Achronix CAD Environment (ACE 4.0) tool set, the push-button physical synthesis capability provides mixed language (VHDL and Verilog) as well as SystemVerilog support. Automatic incremental synthesis further reduces the design cycle time, yielding time to market advantages for design teams.

Designers with applications demanding the highest levels of assurance and reliability will now be able to take full advantage of the "assured synthesis mode" and "safer finite state machine" (FSM) capabilities that Precision Advanced RTL Achronix Edition provides when targeting the Speedster22i devices. The safer FSM mode automatically infers a fault tolerant implementation, where a single event upset (SEU) will not interrupt FSM operation. The "assured synthesis mode", available in Precision Advanced RTL Achronix Edition for Speedster22i devices, ensures the synthesized design can be formally verified as is commonly required in safety compliance standards (e.g., DO-254).

"We work closely with the team at Achronix to ensure fully-optimized physical synthesis support for their recently announced 22nm FPGAs," said Daniel Platzker, FPGA synthesis product line director at Mentor. "The combination of Achronix FPGAs and their access to Intel's 22nm process technology was a compelling reason to partner with Achronix."

"Although we are breaking new ground in FPGA performance, density, cost, and features with our Speedster22i family, we are excited to continue to support traditional design methodologies and familiar tools for Speedster22i," said Yousef Khalilollahi, vice president of marketing at Achronix Semiconductor. "This agreement with Mentor arms designers of the world's most advanced FPGAs with state of the art tools."

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### ***Agentrics Launches New Product Lifecycle Management Software***

31 January 2011

## CIMdata PLM Industry Summary

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Agentrics announced the launch of new Product Lifecycle Management (PLM) software to help retailers and manufacturers overcome the complexity of managing an increasing number of product launches and own-label products.

The Agentrics software, PLM Active, will allow retailers to adopt IT best-practices and processes, which will simplify and increase the speed of new product launches. Currently, product launches can take anywhere between 20 and 80 weeks to prepare because of the vast quantities of information and numerous suppliers involved. PLM software helps everyone in an organization, from the design stage right through to production, marketing, packaging and the supply chain, align themselves by accessing a single, reliable source of data.

“Quite a few of our larger, supermarket customers are already benefiting from our enterprise solutions to help run very successful private-label businesses,” says Jeremy Whinnett, Director PLM at Agentrics. “But as the private label market expands and gets more and more complex to manage, many other retailers and manufacturers want to get in on the action.”

Increased consumer demand for products which are more sustainable and competitively priced is putting greater pressure on retailers to compete head on with national brands – fuelled in part by the economic recession and rising prices. New regulatory requirements and food safety standards are also paving the way for retailers to quickly and efficiently ensure that any products in the supply chain are backed up with sound, accurate information. For instance, a food company might have to substantiate claims that a product definitely contains no nuts and was ‘Made in the UK’, as stipulated on the label; while a hard goods retailer might have to suddenly dispel media claims that items were unethically sourced using sweatshops in the Far East. Even during the recent contaminated German egg food scare, supermarkets had to be able to quickly identify and point out that no products were at risk, or otherwise be seen to remove any tainted products immediately from the shelves.

Whinnett says that the ‘out-of-the-box’ pre-configured PLM Active solution, available via the internet on a reduced-cost subscription basis (Software as a Service), will be ideally suited for smaller to mid-sized retail businesses with a growing proportion of own-label products. The software includes tools to assist with the collaborative development of products and a single supplier database, ensuring a single version of the truth and less exposure to manual data-entry errors. Using PLM Active, retailers can provide details on everything that goes into a product, from the idea stage right through to the shelf.

“Many retailers and manufacturers are put off by the perceived scale and upfront costs of a big IT implementation, concerned that benefits often take too long to materialize,” says Whinnett. “Yet the flip side of not having any PLM systems in place and using nothing but basic spreadsheets to manage thousands of products, with sometimes hundreds of suppliers and varying product attributes, is far more daunting. So we’re seeing more and more retailers looking for a quick fix and scalable IT solution for the future.”

A leading health and beauty ‘drugstore’ retailer in the US has just completed a successful trial of the Agentrics PLM Active software, taking just three months to fully implement the solution.

“PLM Active gives the ability to control the launch of individual products, much more quickly,” he says. “It also allows retailers to substantiate any claims made, whether it’s to verify products’ ingredients, labeling or supply chain details. Everything becomes so much more transparent and easier to use with a centralized database of pertinent information at your fingertips. With a single glimpse, retailers get a holistic view of all products throughout their entire life, giving rise to considerable cost savings and faster time to market.”

## About Agentrics

Agentrics is a global provider of retail and supply chain solutions for clients including ASDA, Carrefour, Auchan, Marks & Spencer, PepsiCo, Casino, Walgreens, Coles and Best Buy.

Its business solutions enable leading retailers, brand manufacturers and suppliers launch more products faster, by fostering a collaborative supply chain with accurate, timely and automated data sharing. This leads to significant efficiencies, lower costs and faster time to market, while benchmarking performance against the world's best.

The company was founded over a decade ago by the world's top retail players as one of the industry's first ever online exchange platforms in order to increase competitive advantage and profitability through the joint development of best practices. Today, Agentrics offers solutions covering spend management, product sourcing, supply chain planning and replenishment, retail intelligence, online collaboration and communication, as well as product lifecycle management.

Agentrics employs more than 600 people working in 14 languages across 34 countries. Its customers represent more than \$1.5 trillion in consumer spending.

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## ***Agilent Technologies' Latest 3-D EM Simulation Platform Provides Faster, More Accurate Modeling of RF, High-Speed Components***

16 February 2011

Agilent Technologies Inc. announced Electromagnetic Professional 2011.02, a new release of its 3-D electromagnetic modeling and simulation platform for creating 3-D models and analyzing the electrical performance of packages, connectors, antennas, and other RF components.

Known as EMPro, the platform is tightly integrated with Agilent's Advanced Design System for the design of RF and high-speed circuits, modules and PC boards. The new release features significant improvements in both accuracy and speed for modeling RF and high-speed components.

EMPro 2011.02 delivers new meshing technologies for both its time- and frequency-domain electromagnetic solvers. Meshing is the first step in an electromagnetic simulation and occurs when a 3-D model is segmented into tiny mesh cells.

For the finite-difference time-domain solver, EMPro 2011.02 adds a new meshing option that creates mesh cells that more closely conform to curved surfaces and non-orthogonal edges. Using this option, engineers can now realize more accurate results with fewer mesh cells required, while also reducing memory consumption and simulation time.

For the finite element-method frequency-domain solver, EMPro 2011.02 delivers several new meshing options that allow engineers to more precisely specify the desired mesh structure along conductor edges, surfaces and vertices. Doing so reduces the time it takes for the meshing algorithms to converge on a final, accurate mesh while increasing its accuracy. Additional meshing options improve simulation accuracy across the entire frequency band of the device by automatically refining the mesh at critical resonant frequencies.

EMPro 2011.02 also incorporates several new features that improve the tool's performance and ease of use.

## Availability and Other Details

Agilent's EMPro 2011.02 is now available for download at <http://www.agilent.com/find/eesof-empro2011>.

For more information about Agilent's EMPro 2011.02, go to <http://www.agilent.com/find/eesof-empro2011>.

See Agilent's newest design and test innovations for advanced RF and microwave research, development and manufacturing at the 2011 IEEE MTT-S International Microwave Symposium (IMS), June 7-9, at the Baltimore Convention Center, **Booth 813**. And join Agilent and its solution partners on Agilent Avenue to connect expert to expert with leaders in the industry.

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## ***BETA CAE Systems S.A. Announces the Release of ANSA v13.1.2 with New Features and Important Code Corrections for CFD Users***

11 February 2011

### **ANSA v13.1.2 for CFD**

The official software release is comprised by the latest ansa\_v13.1.2 files that reside in the server at the time of this announcement. These replace any pre-releases and files downloaded prior to this date (i.e. February 11th, 2011).

### **Starting ANSA for CFD:**

To get optimum functionality for CFD pre-processing start ANSA in the recommended CFD-tuned mode either by:

```
[installation_path]/ansa_v13.1.2/ansa64.sh
```

which opens the ANSA Launcher window where you can select the CFD mode,

or directly (if the launcher does not appear due to installation issues) by using the extra argument - gui CFD:

```
[installation_path]/ansa_v13.1.2/ansa64.sh -gui CFD
```

### **Main new features introduced**

#### **General**

- New function FOCUS>NEAR in order to bring to visible entities by a user specified proximity distance
- Support I/O of OpenFOAM binary files
- Support I/O of SETs for OpenFOAM

#### **Meshing**

- Surface Wrapping - significant acceleration of the contact prevention and self-proximity refinement algorithms
- Improved accuracy of Size Box refinement imprint

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- New quality criteria definitions: Growth rate (shells and solids) and OpeFOAM Non-orthogonality and Warping (Face Flatness)
- HEXABLOCK mesh can now be morphed as all Morphing functions can be applied on HEXABLOCK boxes

## **Morphing**

- New function CONTROLS>SENSITIVITY that can be used to apply morphing based on calculated sensitivity values from the solver

For more details about the new software features, enhancements and corrections please, refer to the Release Notes document.

## **Known issues resolved**

- Fix bug of error in reading STL ascii files of more than 2Gb size
- Fix wrong focus behaviour of entering values in fields of cards on Windows platform
- Fix wrong calculation of Fluent Squish for polyhedral elements
- Fix bug of not taking into account the target length value of Wrap scenarios in Batch Mesh
- Fix bugs in associations and nodal biasings in HEXABLOCK menu
- Fix in input problems of large OpenFOAM files in specific cases
- MRF and Porous zones are not output in OpenFOAM deck if not defined

For more details about the new software features, enhancements and corrections please, refer to the Release Notes document.

## **Compatibility**

ANSA files saved by version 13.1.2 can be opened by versions 13.1.1 and 13.1.0 but not by earlier versions.

## **Documentation**

### **Release Notes**

For more details about the new software features, enhancements and corrections please, refer to the "ansa\_v13.1.2\_release\_notes" pdf document, that can be downloaded separately. This can be also reached by the "Help>Ansa documentation index" accessed by top menu bar within ANSA.

### **Updated documentation**

- Updated ANSA v13.1.2 User's Guide
- Updated CAD data translators documentation
- Updated CFD Project Practices document
- New tutorials for:
  - Hexablock Meshing
  - NASTRAN SOL 600
- Scripting language functions guide

## **Download**

### **Where to download from**

Customers who are served directly by BETA CAE Systems SA. may download the new software, examples and documentation from their account in our server. They can access their account through the user login link at our web site <http://www.beta-cae.gr>

Contact us if you miss your account details. The [ Public ] link will give you access to the public downloads area.

Customers who are served by a local business agent should contact the local support channel for software distribution details.

### **What to download**

For the installation of the software on each platform type the following are needed:

1. the tar file with the respective platform name (e.g. Linux, IBM-AIX etc.), or the respective zip file for Windows and
2. the "common" .tar or .zip file
3. the "tutorials and examples" .tar or .zip file

Previous software releases can be found in the sub-directory called "old".

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## ***Comarch Rebuilds its BSS Around Central Product***

15 February 2011

In answering the crucial requirements of modern communication service providers, Comarch has rebuilt the architecture of its flagship product suite - Comarch BSS - to support operators in optimizing IT architectures and cost savings, unlimited innovation, acceleration of business and shortening of time-to-market.

The BSS Suite is designed to support the core B2C business of mobile, fixed and cable operators. However, it also enables entering new markets such as B2B and M2M and allows for increasing the revenue in these areas, which is very important.

Comarch BSS Suite consists of a set of products which support various domains: marketing/sales, product management, billing, supplier/partner management, service control and application integration infrastructure. An important fact is that it has been prepared with integration of OSS in mind. Together with Comarch OSS or an existing OSS system, it can provide for unique BSS/OSS convergence.

Krzysztof Kwiatkowski, BSS Product Manager, at Comarch's Telecommunications Business Unit, said: "From the IT perspective the optimal architecture is very important. And that's why our entire BSS architecture is modular and perfectly integrated. BSS is developed as a consistent product but all its components are open for integration with other systems. For example, the crucial component - Central Product Manager - is an integral part of the architecture. It enables managing offers, specifications, and product lifecycle in one place and is perfectly integrated with all other BSS modules as well as with the OSS service catalog. However it provides many open interfaces which can be used for integration with legacy systems. It is the same with other components such as Convergent Billing or CRM. This

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approach allows us to deploy only products which are needed by the customer and integrate them with existing infrastructure, while still keeping the architecture very consistent." Products within the Comarch BSS Suite have been designed and developed in-house, meaning that CSPs can count on shorter delivery times, as well as better quality and more secure deployment, as compared to suites from large vendors that arose as a result of mergers and acquisitions. All BSS products are based on a unified data model for reference data and product catalog. This provides a short time to market, while facilitating system management and configuration. Mass and real-time, rule-based data processing is the core of Comarch's competences. This includes service-agnostic and multi-industry rating, charging and billing.

Business process orientation based on TMForum eTOM means that there are no limits to workflows and business processes, as they are delivered out-of-the-box or configured during the implementation process. It is always possible to reconfigure business processes and workflows to suit particular needs of the customer.

Comarch BSS Suite is already implemented at KPN - Netherlands, Auchan SA - France, Bite Latvia and Lithuania, OnePhone - Germany, DTMS - Germany, Belize Telemedia Limited - Belize, Cable Onda - Panama and many others. In 2010 the following operators also decided to use Comarch BSS Suite: GTS Poland, Fring, OXYCOM and five others including Tier-1.

More information can be found at: <http://www.comarch.com>.

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## ***Infolytica Corporation Releases MotorSolve v2.5***

15 February 2011

Infolytica Corporation announced the latest release of MotorSolve, the company's electric machine design software, is now available. MotorSolve v2.5 has numerous improvements to the template modeling engine, results charts, and the user interface in general. A new online documentation resource is also available with this release.

The improvements to the template library include a new interior/exterior wound rotor template. The template modeling engine used in MotorSolve has also been fine tuned, allowing for a more intuitive experience. All of the changes result in users being able to perform even more detailed analysis of their machine design.

Coinciding with this release of MotorSolve is the launch of [LiveDocs for MotorSolve](#). In addition to the basic and general information available in the MotorSolve Help, the MotorSolve Live Docs provide in-depth information allowing one to gain better control and understanding of many MotorSolve's advanced features, such as

- The Variation Geometry engine

- Sizing feature

- Stator windings

- Lumped parameter

- Fields and Fields Charts sample results

- Specific motor concepts - ex: general PWM & cogging torque

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Infolytica will be holding a free web seminar on February 24th, 2011 to demonstrate the newest features available in MotorSolve v2.5. To register, visit the [Machine Design with MotorSolve v2.5 registration](#) page.

## **Pricing and Availability**

MotorSolve v2.5 is now available for PC's running Microsoft Windows XP, Vista and 7. For information regarding pricing or to request an evaluation, [please contact an Infolytica Corporation representative nearest you.](#)

Maintained clients can visit [support.infolytica.com](http://support.infolytica.com) to download this update, access the new [MotorSolve LiveDocs](#) or read the [Release Notes](#) for full details.

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## ***Lawson Software Introduces Cloud-Based Fashion PLM Solution***

14 February 2011

Lawson Software announced the general availability of Lawson Fashion PLM on the Cloud, which offers fashion companies a lower entry cost to product lifecycle management software. Lawson Fashion PLM is a collaborative, web-based solution that helps support the design and development of fashion products from concept to sourcing. Specific software modules include Line Optimizer, Storyboard, Fabric & Trim, Product Manager, Workflow and Source.

Because it is deployed via the Amazon EC2 cloud infrastructure, Lawson Fashion PLM on the Cloud helps make it easier for fashion companies to extend or reduce their use of the application and computer processing power as their business and requirements change. Deployment on Amazon's EC2 global infrastructure helps reduce an organization's own technology infrastructure needs and helps deliver business benefits more rapidly because cloud deployment helps support faster implementation.

Lawson is offering Fashion PLM customers greater choice in deployment options, including traditional on-premise deployment or the new cloud-based delivery option. Customers also have greater choice in how they pay for the software, with subscription-based pricing or traditional perpetual licensing available. Subscription based licensing offers a lower upfront investment, which can help companies allocate working capital to other projects. In addition, Lawson customers that choose subscription-based pricing can have the option to convert to a perpetual license at a later date.

"Lawson Fashion PLM on the Cloud helps simplify software ownership because customers do not need to worry about the hardware and system management – Lawson takes care of that for them through the Amazon infrastructure," said Frédéric Champalbert, general manager of Fashion for Lawson. "Customers deploying Fashion PLM on the Cloud also benefit because they access their applications via a stable and secure Amazon platform with flexible computing power and 99.95% uptime."

The Lawson Fashion PLM on the Cloud subscription-based service includes license, maintenance, support and managed services. As part of the Fashion PLM on the Cloud subscription package, Lawson Cloud Services deploys fix packs, service packs and upgrades, helping fashion companies focus their time and energy on developing new apparel products and accessories.

"Lawson Fashion PLM on the Cloud demonstrates we are listening to the market and delivering innovative solution to help fashion companies," added Champalbert. "Lawson Fashion PLM on the Cloud offers advantages over a traditional SaaS or hosted solution and is simpler to own, implement and

use.”

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## ***Moldex3D Has Released a New Interface for Moldex3D/eDesign: eDesignSYNC for SolidWorks***

15 February 2011

CoreTech System Co., Ltd. (Moldex3D) has released a new interface for SolidWorks® software, the flagship digital product design software from Dassault Systemes SolidWorks Corp. Moldex3D eDesignSYNC for SolidWorks serves as the bridge allowing designers to synchronize design changes with the great analysis power of Moldex3D/eDesign in the familiar environment. This partnership and integration between SolidWorks and Moldex3D creates value for both users of two world-class products.

“Moldex3D eDesignSYNC is developed to bring True 3D plastic injection molding simulation to the desktop of every industrial engineer,” said Dr. Venny Yang, President of CoreTech System. “As the market is demanding high-function designs with a variety of features, complete molding solutions have become more essential than ever.”

Moldex3D/eDesign is a suite of advanced injection molding simulation software for plastic part validation and mold optimization. It offers complete analysis functions such as filling, packing, cooling, warpage, fiber orientation, insert molding, etc. With Moldex3D eDesignSYNC, designers are able to take advantage of these professional capabilities for digitally verifying design changes and solving manufacturing difficulties more effectively and more efficiently. It also seeks to provide a user-friendly interface for every user to access to Moldex3D simulation more easily. The release of Moldex3D eDesignSYNC for SolidWorks will benefit the mutual users of SolidWorks and Moldex3D with a more flexible simulation-driven design platform.

Moldex3D eDesignSYNC is now available for SolidWorks. For pricing and detailed product information, please contact our local offices and resellers. Further technical information also can be found at <http://www.moldex3d.com>.

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## ***NovaQuest Launches First Release of PLM Productivity Packs***

17 February 2011

NovaQuest LLC announced the first release of “NovaQuest Productivity Packs.” These solutions are add-on components and applications that are targeted specifically to improve the end-user experience and productivity of companies that are using Dassault Systemes’ ENOVIA products. The NovaQuest Productivity Packs offering consists of two types of solutions - “Automation Components” and “Application Extensions.”

The “Automation Components” are a bundled package of components that provide improvements to commonly used ENOVIA functions. Example Components include: In-Line Query, Email-Enabled Task Approval and Document Management, Ad-hoc Process Tasks, and more! The Automation Components are delivered in a single package, site licensed, and priced through an annual subscription model.

The “Application Extensions” are a series of application products - each of which provides extended functionality for specific, targeted, applications within the ENOVIA platform. The first six applications

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are: MobilePLM, 3D Dashboards, Protocol Reports for Compliance, ENOVIA Collaborative Integration, View and Print Client, and Invention Machine Goldfire Integration. Each solution is individually priced. Please contact a NovaQuest representative for more information on pricing.

“As an authorized VAR (Value Added Reseller) for Dassault Systemes, our focus is all about the ‘Value Added’ aspect. The NovaQuest Productivity Packs are based on our experience over the last 2 years of working with customers of the ENOVIA solution portfolio, focusing on helping them gain the most return on their investment in PLM. Our first release delivers solutions to some of the most sought-after enhancements,” said Joel Lemke, President and CEO of NovaQuest.

For more information on each component and application, please visit our website at <http://www.NovaQuestSolutions.com>. The NovaQuest Productivity Packs will be available March 1, 2011.

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## ***Optimus Rev 10 Available***

6 February 2011

Noesis Solutions released Optimus Rev 10, offering process integration and bundling more modules and features in its Base configuration. Translating designers’ ideas and goals into an Optimus optimization process flow has never been more intuitive and straightforward. Optimus’ enhanced software environment informs engineering specialists about the ongoing optimization, and guides them in steering the process based on their extensive experience. It’s all about getting better feedback faster, also by applying the full strength of Optimus’ enhanced methods and algorithms for multi-objective optimization. No matter how complex the product or how far the ambitions reach, Optimus identifies the optimum design in record time.

With Optimus’ reshuffled Base / Standard / Premium versions, a lot of optional modules are now available as part of the default Rev 10 software configuration. This increases the return on investment for new customers and also rewards loyal users; two advantages that result from pushing optimization technology towards commodity use.

Optimus is renowned for capturing and automating the most complex simulation process workflows without any programming skills. Perfect examples in this regard are user customizable actions and interfaces (UCAs and UCIs), which can simply be plugged in any workflow. Numerous improvements in Optimus Rev 10 build in even more flexibility in design optimization definition and execution. Using Reject Rules, users can simply bypass expensive calculations when it’s known they will fail. And by choosing the start population of Genetic Optimization algorithms, fewer design optimization iteration steps are needed altogether, saving simulation time and expenditure. The default No Stop condition makes sure that Optimus completes design optimization in full and collects a complete set of result data under any external circumstances.

Talking about methods. Rev 10 incorporates a second-order Adaptive Region Method (ARM) algorithm extension. Optimus applies a smart set of panning and zooming techniques to hunt the location of the optimal point. Based on successive approximation of the quadratic response surface, Optimus accurately captures non-linearities using fewer iteration steps.

Noesis Solutions also made available the first in a series of plug-in methods in partnership with eArtius, combining the best of gradient-based techniques and genetic algorithms. Using this multi-objective

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optimization plug-in, Optimus only requires 2 to 5 model evaluations to identify each Pareto optimal design. This speeds up the process considerably, irrespective of simulation model complexity.

The introduction of partner technology plug-ins fits in Noesis Solutions' strategy to maximize the openness of the Optimus design optimization and process integration software platform. Rev 10 of Optimus presents an impressive series of new UCIs that drive rapid design software packages such as CoCreate, SpaceClaim and SFE Concept as well as simulation software solutions including MoldFlow and Abaqus 6.10.

Optimus Rev 10 supports critical decision making by introducing new plot types, populated by means of multi-disciplinary data mining performed in real time. Some plots serve the identification of trust regions between disciplines in the solution spaces, others are helpful with filtering combinations of designs to limit the solution corridor. Another purpose is generating new design of experiment samples on the basis of data mining results.

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## ***Oracle Announces Oracle Application Integration Architecture Release 3.1***

15 February 2011

### **News Facts**

Oracle announced Oracle Application Integration Architecture (AIA) Release 3.1, a comprehensive update with the first releases of AIA pre-built integrations based on and certified for industry-leading Oracle Fusion Middleware 11g.

Oracle AIA Release 3.1 includes nine cross-industry Process Integration Packs (PIP), eight vertical PIPs, and two direct integrations certified for Oracle Fusion Middleware 11g.

Debuting in Oracle AIA Release 3.1 are three new PIPs including Agile PLM for Process and Oracle Process Manufacturing, as well as Health Sciences industry specific PIPs: Oracle Clinical Trial Payments and Oracle Serialization and Tracking.

Oracle AIA Release 3.1 speeds time to value of the development of loosely coupled process integrations by harnessing the combined power of predefined application integration and Oracle Fusion Middleware 11g.

With AIA Release 3.1, Oracle continues to deliver on its promise of providing a predefined architecture that helps reduce complexity, accelerating delivery of enterprise-class integration solutions, and offering pre-built integrations across all major Oracle applications, including support for newer versions of these applications.

### **Oracle AIA Release 3.1 -- Pre-built integration Highlights Include:**

The Oracle Serialization and Tracking Integration Pack combine the product serialization and pedigree management capabilities of Oracle Pedigree and Serialization Manager with the Oracle E-Business Suite's inventory, manufacturing and order management applications. This pre-built integration includes all required business process models, thereby lowering risk and complexity and shortening implementation timeframes for mass-serialization projects.

The Oracle Design-to-Release Integration Pack for Agile Product Lifecycle Management for Process and Oracle Process Manufacturing is a pre-built, best practice integration process that is configurable

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and extensible to meet your unique process needs. Based upon open standards-based Service-Oriented Architecture (SOA), it is designed to enable seamless synchronization of your enterprise product record and recipes across your supply chain and extended product network. The pre-built integration accelerator supports enterprise processes that connect the PLM product record and recipes in Oracle Agile Product Lifecycle Management for Process with the Oracle E-Business Suite Process Manufacturing.

Clinical Trial Payments Integration Pack for Siebel Clinical is a partial integration utilizing SOA technology providing the first building blocks to automate the clinical trial payment process. Payment request information from Siebel Clinical is plugged into a SOA-based integration that can be utilized by any other system in the payments process. Once the payment has been made the payment details from any system can also be inserted into the integration and received back into the Siebel Clinical system so the clinical team is aware that the payment has been made.

The Oracle Value Chain Planning Integration Base Pack, which previously delivered pre-built integration from JD Edwards EnterpriseOne to Value Chain Planning and Demantra Demand Management solutions, has now been extended to include integration with PeopleSoft Enterprise Supply Chain Management to Demantra Demand Management.

## **Oracle Application Integration Architecture**

Oracle AIA provides an open, standards-based approach for organizations to integrate cross-application business processes, leveraging a broad range of custom, Oracle or third-party applications, while providing a jump start to integration projects, reducing integration risk and lowering integration costs.

Oracle AIA Foundation Pack enables companies to standardize enterprise integration efforts around a common framework and methodology, improving development productivity, service portfolio management, and SOA governance for faster delivery of lower cost, sustainable business processes.

## **Supporting Quotes**

"Oracle Application Integration Architecture (AIA) has made a huge positive impact on our business. We could not scale the business nor provide the level of service without the seamless integration of the Oracle E-Business Suite and Oracle's Agile Product Lifecycle Management," said Michael Higgins, Senior Vice President, Advanced Innovations. "The introduction of AIA Process Integration Packs (PIPs) certified for Oracle Fusion Middleware 11g in the new Oracle AIA release 3.1 will make our lives even easier as we continue to deploy Oracle's business applications and middleware technologies as our IT platform."

"Again proving our commitment to integration cost reduction for all Oracle customers, Oracle Application Integration Architecture Release 3.1 supplies an entirely new opportunity for Oracle Fusion Middleware 11g customers to discover further value," Michael Weingartner, Vice President of Product Development at Oracle. "As we continue to innovate across the board, the core focus of Oracle AIA remains constant by enabling organizations to do more with their existing IT investments, provide business and IT agility and lower the total cost of ownership."

## **Supporting Resources**

[Oracle Application Integration Architecture](#)

[Oracle Fusion Middleware 11g](#)

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## ***Planisware, Inc. Announces Planisware Version 5.2 Release***

18 February 2011

Planisware, a leading global provider of world-class project and portfolio management (PPM) solutions recently announced the release of Planisware 5.2. Available immediately, Planisware 5.2 is the organization's most ambitious release to date and features more enhancements and upgrades than any previous Planisware version.

Showcased in this release is a comprehensive Product Portfolio Management module that enables Planisware users to actively manage the full product lifecycle. Planisware's Product Portfolio Management module encompasses functionality that goes beyond that offered by standard Product Lifecycle Management (PLM) tools which focus solely on processes and data; it is the first of its kind to target business strategy decision by decision. Utilizing this new module, users can manage their product pipeline lifecycles, monitor strategy alignment, control resource allocations, continually monitor product health and adjust priorities based on market, regulatory and business changes.

"Our new Product Portfolio Management module provides something completely new to the market by addressing the need to integrate Business Intelligence and Decision Support into Product Lifecycle Management," said Planisware CEO and co-founder Pierre Demonsant. "We have already received an enthusiastic response from our customers and prospects who desire a system that can help them better manage and streamline the product development process. Planisware is thrilled to present an innovation that marks an evolution in our industry."

Customers can also benefit from a host of other system enhancements which includes new interfaces to Microsoft SharePoint® and Oracle® Primavera, a new configurable dashboard, an augmented Idea Management module and several upgrades to the system's spreadsheet capabilities. The solution's Microsoft Office® integration features also come with several enhancements, such as improved Excel® exchange, PowerPoint® generation and structured Word® document import.

Planisware will feature its product at a number of venues and tradeshow, and is available for viewing through one-on-one demonstrations. For more information, please visit <http://www.planisware.com> or call 1-888-752-6479 to reach a member of their global team.

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## ***SAP® StreamWork™ Integrates Popular Applications with Support for OpenSocial***

16 February 2011

Broadening the range of tools and functionality available to users of the [SAP® StreamWork™](#) application, [SAP AG](#) is introducing support for [OpenSocial](#), a common set of programming standards used by many social web applications.

Developers of applications using the popular OpenSocial API (application programming interface) can now register their tools with SAP StreamWork and make them available to users via the "Tools Catalog" in SAP StreamWork.

Several companies have already taken advantage of this new development, including the following:

[Atlassian](#) is offering issue tracking, collaboration and software development tools to help teams of SAP StreamWork users conceive, plan, build and launch great products.

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[CS Odessa](#) is offering [ConceptDraw MindWave](#), a visual mind-mapping collaboration tool. The application supports team content generation during Web-conducted meetings and allows users to quickly construct interactive maps representing current or future projects and tasks.

[Doodle](#) will help SAP StreamWork users save time and simplify the coordination of appointments with its online scheduling service.

[Google](#) is offering the [Google Translate](#) gadget to translate between common languages in the world.

[GotDecisions](#), the leader in tradeoff-based decisions, is working within the SAP StreamWork collaborative framework to help colleagues make decisions using an approach that emulates the way the human brain works during decision-making.

[MindMeister](#) is providing SAP StreamWork users with a brainstorming tool that uses a scientifically proven mind-mapping technique. The tool will help users review ideas and map out decisions.

"Our customers need ways to work quickly, flexibly and fluidly across a broad range of applications and capabilities, including what they already use today," said Holly Simmons, senior director, On Demand Marketing, SAP. "With OpenSocial, we're pleased to be able to rapidly extend SAP StreamWork with solutions from leading organizations to deliver a productive user experience."

Follow SAP on Twitter at [@sapnews](#). Follow SAP BusinessObjects at [@businessobjects](#)

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## ***Si2's Low Power Coalition Releases Common Power Format Standard Version 2.0***

15 February 2011

Today the Silicon Integration Initiative (Si2) announced release of the Common Power Format (CPF) Version 2.0, incorporating major enhancements to the widely adopted low-power intent

The enhancements and new capabilities in CPF 2.0 consist of two major categories. Guided by the Si2 Interoperability Guide for Power Format Standards released in March 2010, the release of CPF 2.0 includes the following features to improve interoperability with IEEE 1801-2009: the new concept of generic mode to model either a power mode or a functional mode; the improved hierarchical flow to support output and bi-directional virtual ports; the support of pg\_type in supply net connection; more flexibility in modeling different types of isolation, level shifter and retention logic. In addition, based on contributions from member companies and collaboration with the LPC Modeling Working Group, the following extensions are included in the CPF 2.0 release: the new concept of power design to further improve hierarchical low-power design flow; the improvements in macro-modeling of mixed-signal IP with low power features; simplified modeling methodology for I/O pads with complex power management logic; added flexibility to control the corruption semantics for power aware RTL simulation; and extensions to model new low power standard cells such as multi-bit isolation and level-shifter cells, multi-stage level-shifters, etc.

"Interoperability between power-intent file format commands and concepts is important for end user and tool developers alike. Power affects the entire verification and design flow. IBM and our OEM customers use a myriad of EDA tools in these flows for their design and verification. Easy translation between power formats eases the burden of parsing and modeling the information. Designers can more easily convert from one format to the other to run tools that support one of the formats," says Leon Stok, Vice President, Electronic Design Automation Technologies, IBM Systems and Technology Group.

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“Along with the practical additions to the language based on four years of use in the industry, another important addition to CPF 2.0 is the combination of functional modes with power modes of a design,” continues Stok. “This allows a designer to consider power management as an integral part of the function. Modeling these two pieces of information together as a single concept allows a design tool to understand the tradeoffs between power and function - something that design teams struggle with today.”

“The Cadence CPF-based low-power solution — with technologies spanning across our System Realization, SoC Realization and Silicon Realization product lines — delivers the most mature flow to address the challenges of modern advanced low-power designs,” said Charlie Huang, senior vice president and chief strategy officer at Cadence Design Systems. “Si2’s continuous advancements of CPF enable Cadence to develop new capabilities in our low-power solution to help our customers meet the requirements for future advanced low-power designs.”

“Improvement of interoperability between CPF and IEEE 1801 stands out in CPF 2.0,” says Prabhu Krishnamurthy, Senior Director, Design Implementation, LSI. “Semantic equivalence to the 1801 standard is achieved by adding new options to commands to specify isolation, level shifter and retention rules. Significantly, the addition of generic mode in CPF makes it compatible with power states in 1801. These changes will help ASIC companies like LSI to more easily use mixed flows with best-in-class tools from different vendors thus enabling better quality and turnaround times.”

CPF 2.0 is available for download at: <http://www.si2.org/?page=811>.

## Background

CPF is a Tcl-based format used to capture the power intent of a design. CPF complements the RTL and/or netlist description of the design allowing existing golden RTL/netlist blocks to be used without modification. CPF has achieved wide acceptance in EDA tools in end-user tool flows, and enjoys a record of numerous completed chip tape-outs with subsequent testimonials, and adoption into leading foundry reference flows.

The CPF standard was approved and made publicly available in March of 2007. CPF is supported by many adoption aids and tools, all available from Si2: a CPF tutorial (in both English and Mandarin), a CPF Parser software, the CPF Pocket Guide, an LPC Glossary, and an Interoperability Guide. CPF is supported not only by the Low Power Coalition, but also the Power Forward Initiative, <http://www.powerforward.org>.

## About the Low Power Coalition (LPC)

The Low-Power Coalition (LPC) is delivering enhanced capabilities in low-power Integrated Circuit (IC) design flows in particular relating to specifications of low-power design intent, architectural tradeoffs, logical/physical implementation, design verification and testability. Member companies are: Apache Design Solutions, ARM, Atrenta, Cadence Design Systems, Calypto Design Systems, Entasys, IBM, LSI, and Magma Design Automation. For further information on the Low Power Coalition, see <http://www.si2.org/?page=1235>.

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***solidThinking 8.5 and solidThinking 8.5 Inspired Launch Globally with New Advancements for Industrial Designers, Concept Engineers and Architects***

14 February 2011

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"Better, faster, easier." That's how solidThinking Inc. (<http://www.solidthinking.com>) describes its latest 3D concept design and visualization software releases, solidThinking 8.5 and solidThinking 8.5 Inspired™. Industrial designers, concept engineers and architects will soon be able to experience the enhanced benefits of the new solidThinking 8.5 releases, which launched worldwide today.

"Our global team of product specialists, all of whom are experienced industrial designers or architects, paid close attention to the needs of existing and prospective users," said Robert Little, president of solidThinking. "Their feedback, careful benchmarking of competitive products, and close collaboration with the software development team have resulted in the solidThinking 8.5 releases achieving outstanding levels of improvement."

"solidThinking empowers users to explore many different aesthetic variations of a design while maintaining the model's core function," said industrial designer and solidThinking user Emanuele Rodella. "For example, the new round tool is truly excellent, and helped me handle some very complex changes; and I often used the environment visualization mode to review the model's progress. The faster, more improved modeling in solidThinking 8.5 has developed noticeably higher-quality, smooth and sinuous models, and a more interesting, visually dynamic shape – ultimately allowing me to realize the full potential of my design projects."

"The fundamental functions behind design are ideation and iteration – the ability to conceptualize ideas at the speed of thought and without constraints," said Alex Mazzardo, solidThinking's vice president of marketing and product strategy. "solidThinking 8.5 and solidThinking 8.5 Inspired are our next steps in redefining the way design concepts are created, evaluated and photorealistically visualized, in real time, in the early development phase."

The solidThinking 8.5 releases introduce more than 900 new features, enhancements and updates, including:

## **Modeling**

Faster workflow and functional performance.

Simplified user-interface navigation and scene organization.

A new and improved round tool with advanced options for shape control and handling of overflowing/overlapping rounded surfaces.

A new Face Extract modeling tool for the creation of new surface objects by extracting faces of existing objects.

More shortcuts, construction aids, sort and selection filters.

Faster and higher-quality environment mapping and interactive visualization.

## **Data Exchange/CAD Collaboration**

New direct import for several native formats including H3D, SAT (ACIS), Catia V4, Catia V5, Parasolid (x\_t and x\_b), Pro/ENGINEER, SolidWorks and UGS NX – all at no additional cost.

New export capability for Parasolid native format (x\_t and x\_b).

Improved import and export capability for IGES, STEP and STL.

## **Rendering/Presentation**

A new real-time photorealistic rendering option, which integrates raytracing and progressive rendering

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to obtain a more photorealistic representation of lighting and materials.

Enhanced anti-aliasing techniques and more efficient glossy materials for real-time rendering.

Reflection Catcher, a new function that adds reflection below the model in a photorealistic rendering when the model is added to a back plate image.

Enhanced materials library with more than 300 new "apply-and-render" materials. Material default settings have been optimized for best results.

New ready-to-render lights and interior sets.

Increased selection of background images and environments.

## **Form Generation (solidThinking Inspired)**

The ability to run morphogenesis™ form generation on multiple model parts and materials.

Define parts as design or non-design space.

Show design space and morphogenesis results simultaneously for full review of the form generation.

Faster, more intuitive part manipulation through smart snaps.

Simple push and pull capabilities for turning 2D sketches into 3D design spaces.

Measure static weight distribution of parts and assemblies on supports.

Current solidThinking users and members of the creative community are encouraged to further explore solidThinking 8.5 and download a free trial version by visiting <http://www.solidthinking.com>. solidThinking is also offering updated tutorials and essentials videos, which users can utilize to get up and running quickly and independently. The videos will be available in 10 languages, including English, Chinese, Dutch, French, German, Italian, Japanese, Korean, Portuguese and Spanish.

In 2000 solidThinking became the first to offer industrial designers NURBS-based 3D modeling software on both Mac and Windows operating systems. By 2008, solidThinking had launched its software globally, bringing industrial designers worldwide the flexibility leveraged by Italian design firms for everything from jewelry and electronic devices to furniture and yachts. Initially recognized for its flagship ConstructionTree™ history technology, which allows designers to explore and evaluate any design alternative, in 2009, solidThinking announced a breakthrough in digital product development with the release of morphogenesis™, a computational, form-generation technology dedicated to helping designers and architects explore virtually countless design options during the conceptual phase.

For more information, news and upcoming events, connect with the solidThinking team on:

Facebook – <http://www.facebook.com/solidThinking>

Twitter – <http://www.twitter.com/solidThinking>

YouTube – <http://www.youtube.com/solidThinking>

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## ***Tekla BIMsight Revolutionizes the BIM Software Market***

14 February 2011

To make BIM a tool for everybody, 3D modeling software provider Tekla launches BIM application for

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model-based collaboration. Tekla BIMsight is for everyone in the industry to share information for free. Now contractors, designers, architects, MEP detailers, fabricators and anyone who is interested can combine models, check for clashes, perform spatial coordination, and collaborate using Tekla BIMsight.

Tekla BIMsight allows anyone to combine and review building information models from all project team members. Everyone can check these models using clash management routines as well as manage and assign those clashes. Using the industry standard IFC format, Tekla BIMsight provides a 3D communication platform that makes sharing models and information clear and easy. And the real benefit – it is free.

“Tekla's mission is to enable BIM for everyone, multiplying the users’ potential to think and achieve big in their projects and businesses,” explains Tekla Inc. Managing Director Hans Ehrnrooth. “Leveraging BIM as a centralized process rather than ‘just a 3D model’ requires cooperation and goodwill between the construction disciplines.”

Tekla BIMsight is ready to download for free at <http://www.teklabimsight.com/>. Video tutorials and an online user community make it easy for anyone to get started visualizing and communicating with building information models.



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