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## Acquisitions

### ***Mentor Graphics Acquires Virtual Garage Technology from Freescale to Expand Electrical Design Scope***

16 February 2010

[Mentor Graphics Corporation](#) announced that it has acquired the Virtual Garage product line from [Freescale](#), a US-based technology company. Virtual Garage is a software suite that addresses two important topics within the design and management of automotive electrical and electronic systems: the trade-off between value-of-variety and cost-of-complexity caused by optional electronic content; and provision of vehicle-specific design data, such as dynamic electrical schematics, on demand to service networks.

Both topics carry significant profitability implications. Martin O'Brien, general manager of Mentor Graphics Integrated Electrical Systems Division, said "Virtual Garage is highly complementary to Mentor's CHS software for electrical systems design and wire harness engineering. Virtual Garage

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expands our scope both upstream into product planning, where decisions about product configuration complexity significantly impact long term costs, and downstream into the key area of online service documentation for dealer networks. Our customers consistently tell us that these are both areas that require strong software support."

The Virtual Garage products are OEM proven and add significant value across the supply chain. Mentor has acquired the relevant intellectual assets and the key architects of the solutions. Mentor also acquired one key commercial contract under the acquisition. Renee Mitchell, director, corporate strategy and business transformation for Freescale, said "As a responsible supplier it was important to Freescale that Virtual Garage was transferred to the right new owner. Mentor Graphics has world-leading expertise in automotive electrical and electronic design, and the global reach needed to support automotive customers. Although we considered other expressions of interest, it was clear that Mentor is the best company to take Virtual Garage forward."

Following this technology acquisition, Virtual Garage will be incorporated into Mentor's automotive industry product portfolio. Virtual Garage will also be featured in several sessions at the upcoming IESF conference in Detroit on March 18, 2010. The sessions are:

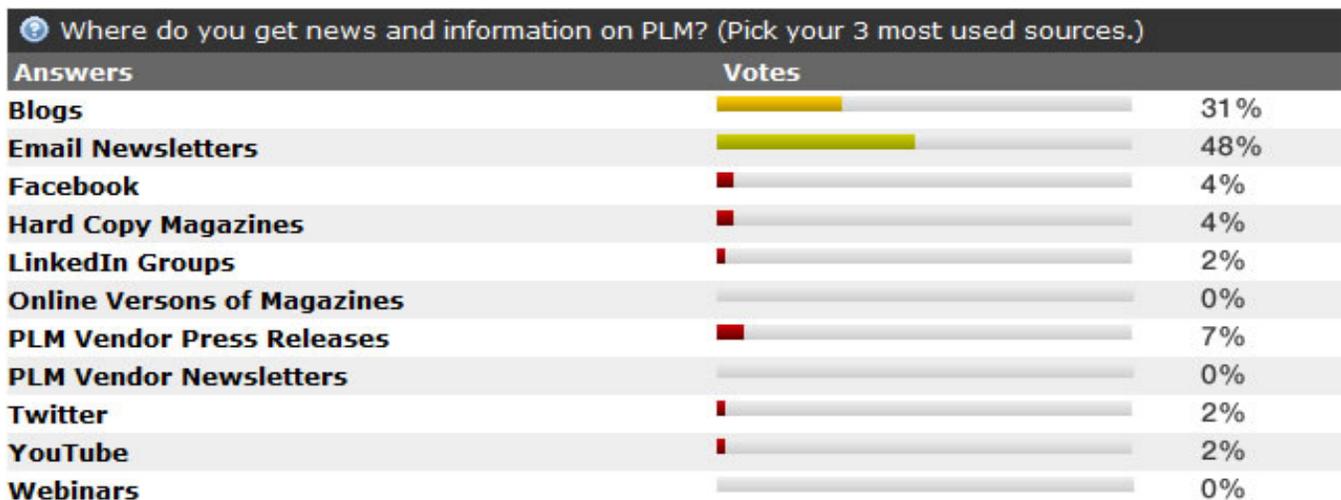
- "Delivering Dealers VIN-based Service Documentation Online and On Demand," presented by Ron Wadood, wiring diagrams/electrical systems manger, dealer technical operations, Chrysler
- "Challenges of Automotive Electrical Complexity - The OEM Perspective," presented by John Antilla, Operations Program Manager, Systems & Components, Chrysler
- "Managing Electrical Complexity with Virtual Garage," presented by Brad McCaskey, Mentor Graphics

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## CIMdata News

### *Announcing Poll Results: Where do you get news and information on PLM?*

19 February 2010



### **CIMdata Analysis:**

CIMdata's latest opinion poll on the sources our readers and website visitors use to keep informed

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regarding Product Lifecycle Management shows that their most important source of news and information related to PLM is email newsletters (48%), followed by blogs (31%), and then by PLM vendor press releases at 7%. Facebook and hard copy magazines, each at 4%, were far down on the list of PLM sources along with LinkedIn Groups (2%), Twitter (2%), and YouTube (2%).

Our experiences indicate that there are a number of factors that account for email newsletters as the most favored source. (1) They offer PLM news and information in near-real-time with high visibility (email or RSS) that is available 24/7 wherever there is Internet connectivity, and (2) they are versatile, i.e., news can be forwarded or copied and shared easily, and some even include links to electronic copies of articles from online versions of hard copy magazines. This facilitates quick skimming of relatively robust content for items of interest.

With regard to Blogs, our experiences indicate that they can contain useful news and industry expert comments that are not contained in PLM vendor and service provider press releases and newsletters. Additionally, they often raise issues and welcome comments from readers. This facilitates other viewpoints and stimulates discussion and can be a good source of PLM market intelligence.

Finally, it is possible that email newsletters and blogs are comprehensive enough that the other sources mentioned in our poll are used only to supplement them and/or to tap into more social aspects of PLM knowledge acquisition.

NOTE: The results of these polls are anecdotal, not scientific.

If you have a suggestion for a poll you'd like to see contact us at [info@cimdata.com](mailto:info@cimdata.com).

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## ***New Opinion Poll: How can PLM best help you cope with economic downturns?***

19 February 2010

CIMdata's latest poll seeks your feedback on how PLM can best help your organization cope with economic downturns. Voting takes a couple seconds and is completely anonymous. Vote [here](#).

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## Company News

### ***Delcam Launches Dedicated Web Site for Healthcare Division***

18 February 2010

CADCAM developer [Delcam](#) has established a dedicated web site for its Healthcare Division as part of the greater focus on this increasingly important part of its business. The new web site, [www.delcam-healthcare.com](http://www.delcam-healthcare.com), shows how companies across the medical, dental and associated industries have been able to apply Delcam's software to give a higher quality service to their patients. It incorporates five mini-sites describing Delcam's solutions in five key areas; dental restorations, custom orthotic insoles, medical implants, orthopaedic footwear and maxillofacial prosthetics.

The Healthcare Division provides engineering-based software solutions to enable medical professionals to design improved medical devices and to streamline processes, whilst reducing patient trauma and keeping waiting times to a minimum. These solutions combine Delcam's 40 years of CAD/CAM

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development with expert advice from a panel of experienced medical partners and state-of-the-art hardware technology.

The common theme with all of the 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.

This approach has been successful because companies in the healthcare industry face, fundamentally, 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. 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 they are wholly-owned subsidiaries, joint ventures or independent resellers, are renowned for the high level of support that they provide to all their customers.

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## ***FREE SURFCAM Student Learning Version Now Available for Download***

17 February 2010

Surfware, Inc. announced that starting with the release of SURFCAM V5, a FREE Student Learning version is available for download at <http://www.surfware.com>.

Surfware will be making available a FREE Student Learning version available for download to:

- Students that would like to learn NC programming at home.
- SURFCAM users that want to continue developing SURFCAM skills, but haven't the time to do so in their work setting.
- NC operators that want to understand and learn SURFCAM on their own time.

The benefits of this FREE Student Learning Version are:

- No SIM or security code required.
- All the SURFCAM options and modules are supported with the exceptions of TrueMill and native translators.
- The ability to open and work with Native SolidWorks (SLDPRT and SLDASM) files.

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- The ability to open and work with native Mastercam (MC) files.
- Reading of ACIS, DWG, DXF, IGES, SAT, X\_T, X\_B, PAR, VDA, CDL, NCC, CM, GR, INV, SCCLT, ASC, MC, SCPRT and SCEDU files.
- The ability to save only to SCEDU format.
- No output or export capabilities.
- No post processing.

This SURFCAM V5 Student Learning Version is available for download at [http://www.surftware.com/register\\_for\\_V5.aspx](http://www.surftware.com/register_for_V5.aspx)

The SURFCAM Student Learning Version contains help, videos, tutorials and a “Get Started” manual, but does not include access to the Surftware support staff. SURFCAM Student Learning Version users are encouraged to contact their local SURFCAM resellers to learn more about all the new features and functionality in SURFCAM V5.

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## ***Mentor Graphics Names New Vice President***

18 February 2010

Mentor Graphics Corporation announced it has named Serge Leef, General Manager of the System Level Engineering division, Vice President of New Ventures tasked with expanding the company’s thrust into markets adjacent to electronic design automation. Mr. Leef will also continue his role as General Manager, System Level Engineering division.

Serge Leef’s new role builds on his experience in applying advanced system-level design automation techniques to the challenges associated with design, verification, implementation and test of heterogeneous systems frequently found in automotive, medical, aerospace and defense industries.

Prior to joining [Mentor Graphics](#) in 1990, Leef was responsible for design automation at Silicon Graphics where his team created revolutionary, high-speed simulation tools to enable design of 3D graphics chips that defined state-of-the-art in visualization, imaging, gaming and special effects for a decade. Prior to 1987, Serge managed a CAE/CAD organization at Microchip Inc. From 1982 to 1987, he worked at Intel Corp. developing functional and physical design and verification tools for major 8- and 16-bit microcontroller and microprocessor programs. Serge holds a BSEE and MSCS from Arizona State University.

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## ***Selerant Takes a Bigger Bite Out of the Big Apple; Selerant Moves US Operations to Manhattan, New York***

17 February 2010

Selerant (<http://www.selerant.com>) announces its move to Manhattan, New York, effective February 19, 2010.

"We are extremely pleased to not only offer our clients a more convenient location in midtown Manhattan," explains Selerant CEO, Carlo Colombo, "but we can also provide state-of-the-art

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technology on-site with enhanced security and even greater room to grow for the future."

Selerant's clients include several Fortune 500 companies who utilize DevEX, their web-based Product Lifecycle Management (PLM) software solution to expedite products from concept to market.

Selerant's new offices are located at 499 7th Avenue, Suite 18N, New York, NY 10018.

## **About Selerant**

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

Earning the prestigious ISO-9001: 2000 certification for best practices, as well as successfully achieving FDA 21CFR PART II compliance implementation, Selerant provides exceptional service and solutions for over 500 companies and global mid-sized organizations. With a global presence and over 300 cumulative years of experience, Selerant offers unique expertise to serve leaders in process manufacturing industries, including: food, beverage, flavor, chemicals, paint, ink, fragrance, household goods, pharmaceuticals, and cosmetics.

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## ***Symmetry Solutions Tops North American Market; Value-added Reseller Wins Top Reseller Award in North America for Subscription Service***

18 February 2010

Symmetry Solutions Inc. (Minneapolis, MN), a value-added reseller (VAR) of [SolidWorks](#) technology, announced that Dassault Systèmes SolidWorks Corp. (DS SolidWorks) has recognized it as the Top VAR in North America for Subscription Service.

Subscription service represents the areas where SolidWorks end users depend on VARs the most: technical support, guidance in software upgrades and enhancements, and expert problem-solving advice.

"We congratulate Symmetry Solutions, the best performer in North America this year for Subscription Service," commented Jeff Ray, chief executive officer of DS SolidWorks. "Our customers choose SolidWorks because we give them more than just software; we include the knowledge base and dedication of a team of professionals focused on the ultimate success of the end user. Certainly, Symmetry Solutions has demonstrated an exceptional regard for the overall success of its customers."

## **About Symmetry Solutions Inc.**

Symmetry Solutions is a provider of software, hardware, and services to manufacturing and design industries in the upper Midwest. DS SolidWorks Corporation and Z Corporation are strategic Symmetry Solutions partners. Symmetry Solutions is based in Brooklyn Center, MN. For more information, please visit the company's web site (<http://www.http://symsolutions.com>) or call 1-800-975-0740.

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## ***Tata Technologies Earns Two Dassault Systèmes Honors for 2009***

15 February 2010

[Tata Technologies](#) announced that the company is the recipient of two major awards from Dassault

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Systèmes – “VAR of the Year 2009 – Best Product Mix across All Dassault Systems Brands” and “Best Out Location Focus in the Territory.” The awards were presented in January, at the Dassault Systèmes 2010 Sales Kickoff in Bangalore, India.

Wishwas Julka, Tata Technologies Associate Vice President PLM Solutions – Asia-Pacific shared in the two awards and said, “I want to congratulate each and every one of our team members for the hard work and effort that led to this recognition for 2009. We are thrilled to have won these significant recognitions from such a valued PLM partner as Dassault Systèmes. These awards are a boost for the whole team and a source of encouragement to perform even better in the coming year.”

Manish Kohli, Regional Manager for North and East India, was named as the recipient of the “Best Out Location Focus in the Territory” award.

Tata Technologies has earned this recognition from Dassault Systèmes and IBM PLM every year since 2005, the beginning of the Dassault Systèmes PLM solutions business in India. Tata Technologies is the only Indian business partner of Dassault Systèmes to ever earn the prestigious Platinum Partner Award, that honor coming in 2008.

Presenting the awards on behalf of Dassault Systèmes were the following executives: Philippe Forestier, Executive Vice President; Christian Nardin, Asia-Pacific Head; Andy Kalambi, President Dassault Systèmes – A-P South; and Ajay Verma, Vice President A-P.

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## ***Tribold and Giza Systems Announce Partnership for Enterprise Product Management Delivery in Middle East***

16 February 2010

Responding to increased demand for product and service management in the Communication Service Provider (CSP) industry in the Middle East, Tribold and Giza Systems have signed a partnership agreement, which will bring Tribold’s Enterprise Product Management solution to the region. Shehab ElNawawi, Chairman & Managing Director at Giza Systems, said: “As the CSP industry in the region develops we are witnessing an increasing awareness of the key role that Product & Service Management plays in achieving and maintaining market positions and increasing efficiency in the areas of marketing, operations, network and finance.”

ElNawawi continued: “[Tribold](#) was an obvious partner for Giza Systems because of their Tier-1 references, the maturity of the Tribold EPM product, and particularly the leadership in the CSP community demonstrated through Tribold’s activities in the TM Forum standards and specification processes. We are excited to be working with a company that not only provides the solution but actively shapes the Product and Service Management landscape in the CSP industry and we are looking forward to bringing the benefits of Tribold EPM to the operators and providers in the region.”

Simon Muderack, Tribold CEO and founder commented, “This partnership provides carriers in the Middle East the unique opportunity to access the recognized global leader in the Enterprise Product Management software through a local partner with intimate knowledge of the regional market”.

### **About Tribold**

Tribold is a leading provider of Enterprise Product Management (EPM) software specifically developed for Communication Service Providers (CSPs). Tribold EPM™ is a single, integrated suite of Enterprise

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Product Management applications that empowers CSPs to put products at the heart of their business.

Tribold EPM™ is based on a Centralized Product & Service Catalog (CPC) and a Product & Service Lifecycle Management (PLM) solution.

## About Giza Systems

[Giza Systems](#) is a systems integrator in Egypt and the Middle East providing a wide range of industry specific technology solutions in the Telecom, Utilities, Oil & Gas, and Manufacturing industries.

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## Events News

### ***Bluebeam Announces Bluebeam PDF Revu 8 to UK Green Builders at Ecobuild***

17 February 2010

Bluebeam® Software is taking its newly released PDF editor, [Bluebeam PDF Revu® 8](#), on its first international tour. Bluebeam is exhibiting March 2nd through 4th at the [Ecobuild Conference](#) in Earls Court, London.

Armed with their recently transformed PDF creation, markup and editing solution, Bluebeam is heading to Ecobuild to show architecture, engineering and construction (AEC) professionals how the revamped software digitizes plans and specs to bits and bytes.

Released February 9th, Bluebeam PDF Revu 8 is a complete solution for taking construction workflows and projects paperless. Among the new features that will be on display at Ecobuild are a file management tab, integration into Microsoft® SharePoint® and Bentley® ProjectWise®, one button PDFs from Revit and action markups for easily hyper linking to digital content including websites, online catalogs and other electronic files.

To recruit more AEC firms to join the battle against unnecessary paper usage, Bluebeam's stand will feature the company's superhero, the world's greatest paper eliminator, [Mighty Bluebeam](#), fighting his pulp-loving nemesis, the evil Paper Pusher.

For more information and for a chance to see the Mighty Bluebeam himself, visit Bluebeam Software at Ecobuild in stand 1831 or go to [www.bluebeam.com](http://www.bluebeam.com).

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### ***CGTech Announces 24 North American VERICUT Users' Exchange Events***

18 February 2010

At the request of customers, CGTech has added additional VERICUT User's Exchange (VUE) locations in 2010, bringing the total number of North America events to 24. 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.

All of the tips & tricks on the agenda were customer-driven following a survey of VERICUT users. One survey responder, Manufacturing Engineering Daniel Shockley at Stork Food Systems, was randomly selected to win an Apple iPod Touch.

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“We have found the user meetings to be a great chance to find out what’s new with VERICUT, learn new techniques for using the software, and to meet with other manufacturers in the area,” Shockley said. “At Stork Food Systems, every NC program is simulated in VERICUT before it’s sent to the shop floor.”

In addition to tips & tricks, the agenda will include a review of enhancements added in VERICUT 7. This release features significant performance-improving enhancements that reduce the time required for manufacturing engineers to develop, analyze, inspect and document the CNC programming and machining process. Instead of focusing on new features or add-on modules, CGTech developer resources have prioritized on diligent code optimization and customer-driven enhancements.

At VUE, CGTech will also be briefly demonstrating recent advancements in VERICUT Composite Applications. VERICUT Composite Applications are machine-independent off-line programming and simulation software solutions for automated composite tape and fiber-placement CNC machines. There are two separate applications: VERICUT Composite Programming (VCP) & VERICUT Composite Simulation (VCS).

## **North American VERICUT Users’ Exchange schedule:**

Monday, March 8 - Irvine, CA  
Monday, April 12 – St. Louis, MO  
Tuesday, April 13 – Phoenix, AZ  
Tuesday, April 13 – Cambridge, ON  
Tuesday, April 13 – Orland, FL  
Tuesday, April 13 – Dayton, OH  
Wednesday, April 14 – Santa Clara, CA  
Thursday, April 15 – Charlotte, NC  
Thursday, April 15 – Cleveland, OH  
Thursday, April 15 – Livonia, MI  
Thursday, April 15 – Salt Lake City, UT  
Monday, April 19 – Indianapolis, IN  
Tuesday, April 20 – Windsor Locks, CT  
Wednesday, April 21 – Milwaukee, WI  
Wednesday, April 21 – Atlanta, GA  
Thursday, April 22 – Montreal, QC  
Thursday, April 22 – York, PA  
Friday, April 23 – Schaumburg, IL  
Tuesday, April 27 – Wichita, KS  
Thursday, April 29 – Minneapolis, MN  
Tuesday, May 4 – Dallas, TX

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Thursday, May 6 – Houston, TX

Tuesday, May 11 – Seattle, WA

Wednesday, May 12 – Tulsa, OK

To register for an event, call (949) 753-1050 or visit <http://www.cgtech.com>.

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## ***CGTech will Exhibit Version 7 of its VERICUT CNC Machine Simulation and Optimisation Software on Stand 5168 at MACH 2010***

19 February 2010

VERICUT 7 features significant performance-improving enhancements that reduce the time required for manufacturing engineers to develop, analyze, inspect and document the CNC programming and machining process. Instead of focusing on new features or add-on modules, CGTech developers have focused on diligent code optimisation and over 500 customer-driven enhancements.

“For VERICUT 7.0 we focused on the customer’s use of VERICUT and how we could improve it,” said John Reed, Managing Director, CGTech Ltd. “We modified the user interface to create a more natural and obvious sequence to the most common user actions. The user’s interaction has a top-down flow through its graphical tree layout, with context sensitive choices that appear as the user moves along in the NC program simulation. We also focussed on system and graphics performance. The result is a better and faster VERICUT, with users claiming around 20% performance improvement”

VERICUT is CNC machine simulation, verification and optimization software that enables users to eliminate the process of manually proving-out NC programs. It reduces scrap loss and rework. The program also optimizes NC programs in order to both save time and produce higher quality surface finish. VERICUT simulates all types of CNC machine tools, including complex multi-axis machines from leading manufacturers including DMG, Mori Seiki, Mazak, Makino and Matsuura. VERICUT runs standalone, but can also be integrated with leading CAM systems such as Catia V5, Siemens NX, Pro/E, MasterCAM, EdgeCAM, GibbsCAM, Delcam PowerMill, Missler TopSolidCAM and Open Mind HyperMill.

[CGTech](#) will also be demonstrating VERICUT Composite Applications at MACH 2010. VERICUT Composite Applications are machine-independent off-line programming and simulation software solutions for automated Fiber Placement (AFP) CNC machines. AFP technology is being driven by the increasing use of composites in the next generation of fuel efficient aircraft.

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## ***Cimatron to Showcase Productivity Enhancements to GibbsCAM, CimatronE at METAV***

18 February 2010

Cimatron Limited announced that it will showcase GibbsCAM 2010 and CimatronE 9.0 at the METAV exhibition Feb 23rd to 27th, in Dusseldorf.

The new version of GibbsCAM (marketed in Germany as Virtual Gibbs) includes major enhancements to 5-Axis Milling and 3D solids machining, as well as new plunge roughing. GibbsCAM 2010 is fully compatible with Windows 7 and can operate at 64 bits, allowing users to make full use of RAM and

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program larger, more complex parts.

GibbsCAM 2010 also features VoluMill; VoluMill high speed roughing maximizes material removal rate and steadies tool load, reducing cycle times and extending tool life. VoluMill works on all solid, surface, and wireframe models, and any combination of part and stock boundaries. It supports an unlimited number of islands, tapered walls, variable pocket depths, and variable island heights.

"With the new version of GibbsCAM and many important enhancements to CimatronE, we are excited to present all of our manufacturing solutions at METAV," said Dirk Dombert, General Manager of Cimatron GmbH. "As the manufacturing industry begins to recover from the continuing crisis, ensuring maximum productivity is essential for survival and success, and our enhancements will help customers maintain high standards with shorter delivery times."

Recent enhancements to CimatronE, for mold and die makers, include the addition of the Moldex eXplorer. With Moldex, mold designers can now simulate and analyze the injection molding process from within CimatronE. This will enable users to ensure optimal placement of injection points, increasing the quality of the manufactured part. A free trial of Moldex is available to all CimatronE customers.

CimatronE can now operate at 64-bits, making full use of available memory, and is compatible with the Windows 7 Operating System.

In addition, those who work with both [Cimatron](#) product lines will now be able to transfer parts from CimatronE to GibbsCAM in one easy click.

The Cimatron GmbH booth is located in Hall 9, Booth E56.

## **About METAV**

680 top-ranking exhibitors from 26 different countries will be present at METAV 2010 from 23 to 27 February. As the year's first comprehensive trade fair for the entire metalworking sector, METAV will showcase innovations in terms of both products and services for industrial manufacture, on a net exhibition area of around 32,000 m<sup>2</sup>. Trade show visitors are offered the ideal opportunity to make their investment decisions right at the beginning of the year, on a well-informed footing. A good number of events supplement exhibitors' offers and provide visitors with additional information.

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## ***COADE Schedules February 18 CAESAR II User Group Meeting in Houston***

13 February 2010

COADE announced that the next CAESAR II User Group meeting is scheduled for February 18, 2010, in Houston, Texas, with presentations by product development and other team members led by David Diehl, VP Customer Experience, Mandeep Singh, senior engineer involved in vessel software, and Vornel Walker, VP Marketing. Topics will cover updates included in CAESAR II version 5.20 build plus an introduction to the recently released new CAESAR II Loop wizard.

The first CAESAR II User Group meeting held in November drew 50 engineers and other users of CAESAR II. Coordinator of the group is Dharam Arya, PE of Mustang Engineering, Houston, Texas. The user group's mission is to encourage end-user cooperation in the development of best practices in pipe stress analysis among CAESAR II users. The steering committee makes decisions regarding future meetings and other means of communications and sharing of best practices.

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Information on CAESAR II and other products is available at [www.coade.com](http://www.coade.com). A registration form for the CAESAR II User Group meeting is at [https://fs12.formsite.com/coade/form062121289/secure\\_index.html](https://fs12.formsite.com/coade/form062121289/secure_index.html).

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## ***Delcam to Demonstrate More Accurate Composite Machining at JEC***

16 February 2010

[Delcam](#) will show how its NC-PartLocator software can improve accuracy and consistency when machining composite components, at the JEC exhibition to be held in Paris from 13th to 15th April. NC-PartLocator, which has been developed in association with metrology specialists MSP, gives the ability to adjust toolpaths to the actual position of the part, rather than having to ensure that the component is in exactly the nominal location specified in the CAM system.

To ensure accurate trimming and profiling, NC-PartLocator first gathers the necessary data using a probe fitted onto the machine tool. A probing sequence is created within the software to collect a series of points from the component. This data is then used by best-fit routines within the software to determine the part's exact position. Any mismatch between the nominal position used in the CAM system to generate the toolpaths and the actual position of the component on its fixture can be calculated. The software then feeds the results to the machine tool control as a datum shift or rotation to compensate for the differences in location and alignment. This adjustment can be made much more quickly and easily than placing, and holding, the part in exactly the specified position, especially with large, flexible components.

NC-PartLocator can also help to tackle localised problems that can result from variations in material thickness across the part, or from distortion within the part caused by differing cure rates or cooling rates in different areas. For example, the software can ensure that fixing holes are drilled to the correct depth. The actual surface of the component can be mapped with NC-PartLocator and this surface used to calculate the drilling routine. This will give more reliable results than using the nominal data from the CAD model of the part.

A second problem that can occur when drilling composites is that the part can distort as the reinforcement is cut. This can be overcome with NC-PartLocator by using a two-stage drilling operation. The first sequence is done using an under-size drill, typically half of the size required for the final hole. The surface of the part is then scanned and the results used in a second drilling routine with the correct size of tool. Any distortion of the part will be picked up by the scan and the centres for the second series of holes can be adjusted accordingly.

NC-PartLocator can also save time that could be wasted in machining and inspecting parts that are already scrap. The process can discover, during the set-up phase, that the component is so distorted that no realignment will give a satisfactory part. While obviously not good news, at least this is better than machining the part anyway and only finding out during the final inspection that it was beyond redemption.

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## ***ExxonMobil and Tetra Pak Highlight 2010 SIMULIA Customer Conference***

18 February 2010

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Dassault Systèmes (DS) announced that keynote addresses from ExxonMobil Upstream Research Company and Tetra Pak will highlight the SIMULIA Customer Conference (SCC) being held May 25-27, 2010, in Providence, Rhode Island, U.S.A.

Keynote speakers, Bruce A. Dale, senior consultant, ExxonMobil Upstream Research Company and Mattias Olsson, Ph.D, manager, Virtual Engineering, Tetra Pak, will provide insights into how realistic simulation is being used by their respective companies to drive research and product innovation. Mr. Dale's presentation will highlight technical achievements from ExxonMobil's three-decade history of using SIMULIA's Abaqus FEA to enable engineering advancements in the upstream oil & gas industry. Dr. Olsson will share Tetra Pak's experience in using realistic simulation solutions from Dassault Systèmes' SIMULIA brand to develop innovative product packaging for delivering liquid food products to global consumers at a low price while extending shelf-life and ensuring safety.

"Our customers are passionate about sharing their experiences in using realistic simulation to achieve business benefits and deliver innovative products that improve society and our daily life," stated Ken Short, VP, Strategy and Marketing, SIMULIA, Dassault Systèmes. "Those attending our international conference will gain unique insights from Mattias and Bruce on how their respective companies are improving the world we live in by creating innovative solutions for affordable, safe food packaging and cleaner, more efficient energy production."

The 2010 SCC will showcase presentations by engineers representing more than 70 international manufacturing and research organizations, including Cordis Corporation, Halliburton, Honda R&D, Kimberly-Clark, Medtronic, Michelin R&D, NOKIA, PSA Peugeot, Rolls-Royce, Verney Yachts, and many others. Sessions will include topics on fracture and failure, nonlinear analysis, multiphysics, process automation, design optimization, Simulation Lifecycle Management, and more.

CD-adapco is the Premier Sponsor of the 2010 SCC and there will be more than 20 Exhibitor Sponsors including: ACUSIM Software, BETA CAE Systems, Bodie Technology, CAPVIDIA, Collier Research - HyperSizer, e-Xstream engineering SA, FE-Design GmbH, Firehole Technology, Fraunhofer Institute SCAI, Global Engineering & Materials, Granta Design, GRM Consulting Ltd., LMS International, Northwest Numerics & Modeling, Quest Integrity Group, Safe Technology, and Software Cradle.

Early-bird registration for the SCC is now open at: <http://www.simulia.com/scc2010>.

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## ***Geometric to Display Automation Intelligence at METAV 2010***

11 February 2010

Geometric Technologies, Inc. will showcase the latest releases of [CAMWorks®](#) and [DFMPro](#) at [METAV 2010](#) along with its European resellers, Geovision GmbH and [SolidLine AG](#), at booth #D47, Hall No. 9, in Düsseldorf Trade Fair Centre, Germany from February 23 - 27, 2010.

"CAMWorks is seamlessly integrated within the SolidWorks® platform, and enables intelligence and automation in design as well as manufacturing processes. Whereas, DFMPro facilitates upstream manufacturability validation and identification of areas in design that are difficult, expensive or impossible to manufacture. CAMWorks and DFMPro together provide an integrated solution for manufacturing companies looking for ways to reduce cost and time to market, while also improving the quality of manufactured parts", said Robert Hutter, Director, Product Sales - Europe

CAMWorks 2010 has over 50 new features and advancements for machining faster and more accurately.

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This release also has significant advances in 3 axis functionality, as well as new features and cutting strategies for 2 to 5 axis milling, turning, and wire EDM. CAMWorks, the first CAM solution to offer knowledge-based feature recognition and associative machining capabilities, continuously enhances its features in line with customer feedback and requirements, and to better integrate with the SolidWorks platform. For more information on CAMWorks, please visit [www.camworks.com](http://www.camworks.com).

DFMPro version 2.1 adds an [injection molding module](#) packed with some of the most important best industry-wide practices for manufacturability of injection molded components related to wall thickness, draft analysis, undercuts, mold wall thickness, ribs, bosses, etc. SolidWorks users will be able to quickly verify their designs within SolidWorks, thus reducing cost and time-to-market, while also improving the quality of manufactured parts. DFMPro also facilitates collaborative design review process by generating comprehensive 3D reports in eDrawings format. This capability is very useful for suppliers to quickly generate eDrawings reports and share it with the OEM for their review, comments and acceptance. For more information on DFMPro, and how it helps in create designs right the first time, visit [www.dfmpro.com](http://www.dfmpro.com).

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## ***IFS Joins FIATECH and Aims for ISO15926***

15 February 2010

IFS joins FIATECH, an association of companies that build large assets such as refineries, power plants, large commercial buildings, or manufacturing facilities. Members of FIATECH also include leading providers of engineering, design, and construction services.

According to the International Organization for Standardization, ISO 15926 specifies a representation of information associated with engineering, construction and operation of process plants. This representation supports the information requirements in all phases of a plant's lifecycle and the sharing and integration of information among all parties involved in the plant's lifecycle.

“We are delighted that IFS has joined our industry consortium of owners and operators, AEC & EPC contractors, universities, research institutes and solution providers,” FIATECH Director Dr. Richard H.R. Jackson said. “IFS’ strategic focus on project-based solutions aligns well with FIATECH’s charter of identifying and accelerating the development, demonstration and deployment of fully integrated and automated technologies to deliver the highest business value throughout the lifecycle of all types of capital projects.”

“IFS became a member of FIATECH because of their commitment to developing standards and solutions that support the complex requirements of project-based companies,” IFS Global Product Director Engineering & Maintenance, Christian Klingspor, said.

IFS has a strong focus on providing project-based solutions to capital-asset-intensive industries such as oil & gas, energy and utilities as well as aerospace and defense. Compared with traditional ERP suites IFS Applications features a multi-discipline Engineering Register, and comprehensive MRO and EAM modules.

The FIATECH 2010 Conference takes place on March 29-31 in Houston, TX.

During the event, IFS will participate in a special meeting for software developers chaired by FIATECH Director, Dr. Richard H.R. Jackson. The meeting will provide an opportunity for software developers to discuss common issues that FIATECH as a community can address, in particular the ISO 15926

standard.

IFS was also selected by the FIATECH Conference Planning Committee to present on Eco-footprint Management during the track on Achieving Success in Safety, Sustainability & Energy Efficiency.

## **About FIATECH**

FIATECH is an industry consortium that provides global leadership in identifying and accelerating the development, demonstration and deployment of fully integrated and automated technologies to deliver the highest business value throughout the lifecycle of all types of capital projects.

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## ***Zuken and Krets-Planering Exhibit at Scandinavian Electronics Event***

11 February 2010

Zuken and Krets-Planering are exhibiting at the brand new [electronics event for Scandinavia in Stockholm, Sweden on 13 – 15 April](#). Together Zuken's direct sales team promoting [CR-5000](#) and Krets-Planering the Swedish distributor promoting [CADSTAR](#), cater for electronics design requirements that range from small simple operations through to large complex multi-sited set-ups.

"We already work with some of the major players within Scandinavia, but are often little known outside of these companies and their associated clusters. By attending SEE we are able to show the region that we are committed to investing and growing our support within the area," said Bob Layton Zuken Northern Europe Regional Sales Manager.

The team from Zuken will be showing all the latest functionality within CR-5000 2009, their enterprise-wide modular PCB design suite, along with add-ons for mechanical and hardware collaboration. Representing Zuken's desktop PCB design software CADSTAR is Krets-Planering, the exclusive Swedish distributor of the solution. They will be illustrating the new capabilities with CADSTAR 12.0 that has had a recent makeover for improved ease of use, along with show the BoardModeler Lite a stand-alone solution that works with CADSTAR to bridge the gap between electronic and mechanical design.

The new event organized by the Swedish IM Association will take place every two years, with the aim of supporting the growing electronics market within the region by inspiring new technical development, providing a forum for business opportunities and attracting young people to seek a future in the electronics industry.

**Visit Zuken and Krets-Planering on stand C04:41.**

For further information visit [www.zuken.com](http://www.zuken.com) or [www.kretsplanering.se](http://www.kretsplanering.se)

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## **Financial News**

### ***Avatech Solutions Reports Strong Second Fiscal Quarter Results***

16 February 2010

Avatech Solutions, Inc. announced financial results for its second fiscal quarter and for the six months

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ended December 31, 2009.

“With that said, we will continue to manage our costs and focus on maintaining a positive bottom line in the coming quarters.”

“We are very pleased with our strong performance for the quarter, which was the second consecutive quarter of positive net income and a significant improvement in the bottom line when compared to last year. These results clearly demonstrate our ability to manage our business in spite of this challenging economic environment and we remain cautiously optimistic about the continuing recovery. As we have said in the past, our staffing and expense levels allow us to remain profitable on lower revenue levels and deliver sound financial results,” commented President and Chief Financial Officer Lawrence Rychlak. “With that said, we will continue to manage our costs and focus on maintaining a positive bottom line in the coming quarters.”

Avatech reported total revenues of \$7.7 million for its fiscal second quarter, compared to \$9.5 million in the prior-year quarter. The Company’s overall gross margin percentage increased to 59.2% for the three months ended December 31, 2009 compared to 43.6% the quarter ended December 31, 2008. Despite realizing lowered revenues from the prior year, the Company increased its operating income by \$1.2 million to \$861,000 for the three months ended December 31, 2009 when compared to the same period in the prior fiscal year. For the second quarter of fiscal 2010, the Company reported net income of \$482,000, or \$0.02 per fully diluted share, as compared with a net loss of \$223,000, or \$(0.03) per fully diluted share, for the quarter ended December 31, 2008. Adjusted EBITDA (as defined) was \$1,060,000, compared to negative adjusted EBITDA of \$67,000 in the prior year period.

For the six months ended December 31, 2009, Avatech reported total revenues of \$15.5 million, compared to \$20.3 million in the prior-year period. The Company’s overall gross margin percentage increased to 52.7% for the six months ended December 31, 2009 compared to 44.0% for the same period in the prior fiscal year. Operating income increased to \$1.1 million for the six months ended December 31, 2009 as compared with an operating loss of \$118,000 the same period in the prior fiscal year. For the six months ended December 31, 2009, the Company reported net income of \$608,000, or \$0.02 per fully diluted share, as compared with a net loss of \$70,000, or \$(0.02) per fully diluted share, for the quarter ended December 31, 2008. Adjusted EBITDA (as defined) for the six month period ended December 31, 2009 was \$1,487,000, compared to adjusted EBITDA of \$380,000 in the prior year period.

Avatech’s balance sheet continues to strengthen as evidenced by cash of \$3.2 million, working capital in excess of \$1.8 million, and only \$98,000 of long-term liabilities. In addition, the Company has redeemed all but \$500,000 of its Series F Preferred Stock and expects to redeem the remaining amount by March 31, 2010. In addition, Avatech continues to maintain a \$5 million line of credit but it has not needed to use any of the financing capacity during fiscal 2010.

George Davis, Chief Executive Officer, added, “It is very encouraging to see our core business continuing its recovery as Avatech is uniquely positioned to leverage the strength of its operating results and financial position to remain a leader in its markets. This strength will allow us to focus more time and resources on identifying and executing on growth and diversification initiatives in the coming quarters with the objective of increasing shareholder value.”

## **Conference Call Information**

Avatech Solutions will hold a conference call to discuss its fiscal 2010 second quarter results at 11 a.m. ET on February 16, 2010. A replay of the call will also be available through February 23, 2010, and can be accessed by dialing (888) 286-8010 (domestic) or (617) 801-6888 (international), and dialing the

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passcode (70993622).

A live webcast of the conference call will be available to all investors in the Investor Relations section of the Company's website, <http://www.avatech.com>. For those who cannot listen to the live broadcast, an audio replay of the call will also be available on the Company's site for a limited time.

## **Note Regarding Use of Non-GAAP Financial Measure**

This news release contains the non-GAAP measure Adjusted EBITDA. Adjusted EBITDA represents earnings (or losses) before interest, income taxes, depreciation and amortization, and stock-based compensation expense.

Adjusted EBITDA is used by management, analysts, investors and other interested parties in evaluating our operating performance compared to that of other companies in our industry, as the calculation of EBITDA as adjusted eliminates the effect of financing, income taxes, stock-based compensation costs, the accounting effects of capital spending and certain other merger related expenses, which items may vary from different companies for reasons unrelated to overall operating performance.

Avatech believes this non-GAAP measure provides useful information to both management and investors by excluding certain expenses that may not be indicative of its core operating results. These measures should be considered in addition to results prepared in accordance with GAAP, but should not be considered a substitute for, or superior to, GAAP results. The non-GAAP measure included in this press release has been reconciled in the financial tables at <http://www.avatech.com/aboutus/pressroom/releasemain.aspx?intreleaseID=249>.

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## ***CENIT Releases Preliminary Figures for 2009***

15 February 2010

Over the course of the 2009 business year, CENIT AG was able to prove that the Group can achieve a solid result even in the face of increasingly difficult and unstable economic framework conditions. Indeed, to achieve this feat despite the fact that 2009 saw declining capacity utilization in the service sector. The primary reason for the latter was widespread short-time work in the auto industry customer segment. At the same time, CENIT also had to compensate for persistent investment reluctance in the market for software products.

According to preliminary, unaudited figures, the Group achieved consolidated sales of 86.6 m €(2008: 83.4 m €/+4%). CENIT attained EBITDA of 5.3 m €(2008: 6.2 m €-13%) and EBIT of 3.9 m €(2008: 4.8 m €-18%). Earnings per share (EPS) were 0.34 €(2008: 0.40 €-15%). As at 31 December 2009, the number of employees Group-wide was 695 (2008: 721). At the balance sheet date, equity capital totalled 28.2 m €(2008: 25.4 m €). On the balance sheet date, bank deposits and short-term securities totalled 19.5 m €(2008: 13.2 m €).

## **Outlook**

Over recent years, [CENIT AG](#) has created a sound foundation for steady, positive business development. We will continue to build upon this in the years to come, and expect to see positive developments during the 2010 business year. We intend to focus particularly on further developing our operative software business. In addition, our strong cash flow enables us to keep making acquisitions that strengthen us in technological or market position terms.

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Detailed results for the 2009 business year as well as the proposal for the allocation of the net profit will be published on the occasion of our balance sheet press conference on 31 March 2010. The figures cited above are preliminary, unaudited Group figures as per IFRS.

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### ***Cimatron's Fourth Quarter 2009 Results Release Scheduled for February 22nd, 2010 after Markets Close***

16 February 2010

Cimatron Limited that it will be releasing its fourth quarter 2009 financial results on Monday, February 22nd, 2010, after the US markets close.

Cimatron's management will host a conference call on Tuesday, February 23rd, at 9:00 EST, 16:00 Israel time. On the call, management will review and discuss the results, and will also be available to answer questions by investors.

To participate, please call one of the following teleconferencing numbers. Please begin placing your call at least 5 minutes before the conference call commences.

USA: +1-800-994-4498

International: +972-3-9180644

Israel: 03-9180644

For those unable to listen to the live call, a recording of the call will be available from the day after the call under the investor relations section of Cimatron's website, at: <http://www.cimatron.com>.

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### ***Synopsys Posts Financial Results for First Quarter Fiscal Year 2010***

17 February 2010

Synopsys, Inc. reported results for its first quarter of fiscal year 2010.

For the first quarter of fiscal 2010, Synopsys reported revenue of \$330.2 million compared to \$339.8 million for the first quarter of fiscal 2009.

"Synopsys started the year with solid momentum," said Aart de Geus, chairman and CEO of Synopsys. "We met or exceeded our financial targets, and made a number of strategic moves that we believe will increase our total available market substantially in the long term."

#### **GAAP Results**

On a generally accepted accounting principles (GAAP) basis, net income for the first quarter of fiscal 2010 was \$132.8 million, or \$0.88 per share, compared to \$52.4 million, or \$0.37 per share, for the first quarter of fiscal 2009. Net income for the first quarter of fiscal 2010 includes 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 2010 was \$62.4 million, or \$0.41 per

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share, compared to non-GAAP net income of \$71.6 million, or \$0.50 per share, for the first quarter of fiscal 2009.

## Financial Targets

Synopsys also provided its financial targets for the second quarter and full fiscal year 2010. These targets do not include future acquisition-related expenses that may be incurred in fiscal 2010. These targets constitute forward-looking information and are based on current expectations. For a discussion of factors that could cause actual results to differ materially from these targets, see "Forward-Looking Statements" below.

### Second Quarter of Fiscal Year 2010 Targets:

- Revenue: \$331 million - \$339 million
- GAAP expenses: \$278 million - \$295 million
- Non-GAAP expenses: \$252 million - \$262 million
- Other income and expense: \$0 - \$3 million
- Tax rate applied in non-GAAP net income calculations: approximately 27 percent
- Fully diluted outstanding shares: 148 million - 153 million
- GAAP earnings per share: \$0.22 - \$0.28
- Non-GAAP earnings per share: \$0.38 - \$0.40
- Revenue from backlog: greater than 90 percent

### Full-Year Fiscal Year 2010 Targets:

- Revenue: approximately \$1.33 billion - \$1.35 billion
- Other income and expense: \$4 million - \$8 million
- Tax rate applied in non-GAAP net income calculations: approximately 27 percent
- Fully diluted outstanding shares: 149 million – 154 million
- GAAP earnings per share: \$1.55 - \$1.74
- Non-GAAP earnings per share: \$1.52 - \$1.62
- Cash flow from operations: \$200 million - \$220 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) stock compensation; (ii) the amortization of

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acquired intangible assets and in-process research and development charges, (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 such 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 as detailed below.

## Earnings Call Open to Investors

Synopsys will hold a conference call for financial analysts and investors today at 2:00 p.m., Pacific Time. A webcast replay will be available on the website from approximately 5:30 p.m. Pacific Time today through the time Synopsys announces its results for the second quarter fiscal 2010 in May 2010. Synopsys will post copies of the prepared remarks of Aart de Geus, chairman and chief executive officer, and Brian Beattie, chief financial officer, on its website following the call. In addition, Synopsys makes additional financial information available in a financial supplement also posted on the [corporate website](#).

## Availability of Final Financial Statements

Synopsys will include final financial statements for the first quarter fiscal 2010 in its quarterly report on Form 10-Q to be filed by March 11, 2010.

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## Implementation Investments

### *Aras Selected by PCC Structural's for Enterprise-wide Product Lifecycle Management*

16 February 2010

[Aras](#)® announced that PCC Structural's, a division of Precision Castparts Corp., an international supplier of industrial castings to the aerospace & defense, power generation, industrial equipment, automotive and medical industries, has selected Aras for product lifecycle management. The Aras implementation provides PCC Structural's better visibility into product information across the lifecycle and drives advanced product quality planning (APQP), while integration with the ERP system will strengthen global vendor management.

Before selecting Aras, PCC Structural's evaluated a number of PLM offerings against its extensive requirements. "The PLM solution we chose had to adapt to our needs and processes, not the other way around. If it wasn't flexible, it wasn't going to work for us," said Dave Rajkumar, IT Applications Manager at [PCC Structural's](#). "We looked at SmarTeam, Oracle Agile and other PLM systems, but believe that Aras would be easier to customize and integrate to our existing applications. Aras meets our business needs. The Aras PLM software suite is extremely flexible, so we can easily tailor it to our specifications, and Aras scales up really well."

PCC Structural's's initial implementation initiative features automation of engineering change processes; CAD file management of SolidWorks, NX, CATIA and other CAD systems; and integration with the existing ERP system. In the future, PCC Structural's will implement stage-gate project management and

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quality management processes. Deployment will be rolled out in stages, extending to more than 3,000 PCC employees across 10 locations.

The ability to prove out Aras without buying PLM licenses was also a plus for Rajkumar. "Being able to download Aras, test its capabilities and see how it will work in our environment made a big difference," said Rajkumar. "We knew Aras would work for us."

"Companies like PCC Structural are the reason we moved to an open source format," said Peter Schroer, President of Aras. "They recognize the value of the Aras enterprise open source model and the power of our PLM architecture, and they know how to make it work for their unique environment. Out of the box or highly custom; implemented on your own, by Aras or by a partner; Aras is all about providing options so that you can get exactly what you need – no more, no less."

When asked what advice he would give other companies evaluating PLM systems, Rajkumar said "Don't buy based on brand name. Don't buy a PLM system because Oracle makes it or PTC sells it. Before you commit, you need to know that the PLM solution will work for your company's specific requirements from both a technical and business case standpoint."

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## ***Asahi Kasei Microdevices Corporation Adopts Simucad's SmartSpice Analog Circuit Simulator***

17 February 2010

Simucad Design Automation (Simucad) announced that Asahi Kasei Microdevices Corporation ([AKM](#)), a leading global manufacturer of CMOS Analog and Mixed Signal LSI circuits, has adopted Simucad SmartSpice as a main simulator to meet the analog simulation needs for its own product development.

The SmartSpice circuit simulator is the world leader in functional capability, simulation speed, convergence, and accuracy. These features are demanded by advanced analog / mixed-signal and RF design houses such as AKM. The advanced modular architecture of SmartSpice supported by a library of solvers, powerful multithreading technology, and Verilog-A delivers these capabilities.

"After an extensive evaluation period, SmartSpice was found to achieve the speed and cost performance as we expected, and outperformed our current simulation solutions," Toshikazu Suzuki, Head of Design Technology of AKM said. "We expect that adopting SmartSpice as a main simulator enables us to design circuits cheaper, better, and faster so that we can improve the product competitiveness on the market."

"SmartSpice is a good fit for an aggressive analog / mixed-signal / RF company looking for powerful simulation solutions," said Dr. Ivan Pesic, President and CEO of Simucad. "Years of research have made SmartSpice the world leader in this field. Companies are increasingly standardizing on SmartSpice as a single simulator replacing the myriad of traditional and lookup-table based simulators currently in use. Our innovative and cost-effective licensing enables customers to achieve this goal."

### **About Simucad Design Automation**

Simucad is a leading provider of simulation and CAD software tools used for developing analog, mixed-signal, and RF integrated circuits. Founded in 2004 as a spin-off from Silvaco International, the company delivers products for circuit simulation, custom IC layout and verification, interconnect modeling, digital simulation, and IP characterization. The company provides a complete PDK-based design flow with interfaces to third-party design platforms.

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Simucad has a worldwide presence inherited from [Silvaco's](#) twenty years of business and is preparing for an IPO.

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## ***BrightBuilt Barn, Designed in ArchiCAD, Wins LEED Award for Innovation***

16 February 2010

The [BrightBuilt Barn](#) – an innovative “net zero” home that needs no furnace, is easy to repair/upgrade, and is designed to last for centuries – has won a major innovation award from the U.S. Green Building Council (USGBC).

Designed in [ArchiCAD](#), the BrightBuilt Barn was selected for the 2009 LEED for Homes Innovative Project Award “because it brings to life a vision of an evolved future for the homebuilding industry, and effectively employs a smaller, replicable, flexible prefabricated design that succeeds in re-imagining the look and feel of 'home,' while keeping upfront costs low and long-term operational costs to an absolute minimum,” said the USGBC. The home was designed by [Kaplan Thompson Architects](#) in ArchiCAD Building Information Modeling (BIM) software from GRAPHISOFT. [Bensonwood Homes](#) built the home, and principals of the companies accepted the award recently at GreenBuild, the annual USGBC conference.

The BrightBuilt Barn is a 700-square foot structure with two bedroom/studio spaces and a loft heated by thermal solar. Its net zero design means that it will produce more electricity in a year than it consumes, and its flexible layout enables it to adapt to new uses without consuming more energy and building materials. Kaplan Thompson has posted the building’s final design at [www.brightbuiltbarn.com](http://www.brightbuiltbarn.com) for free use – a sustainable design version of the software world’s “open source” development model. BrightBuilt was listed among the 2009 [TreeHugger Best of Green: Design + Architecture](#) buildings, and was documented as a “Net Zero” structure. EcoHome magazine named BrightBuilt one of “[6 Prefab Houses That Could Change Home Building.](#)”

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## ***Delcam’s CAD/CAM Software has Ambler Sitting Pretty***

15 February 2010

Delcam’s CAD/CAM software has left Ambler Technologies sitting pretty after the successful completion of a unique chair for composite materials supplier Trelleborg AEM. An impressive project was needed to illustrate the machinability and finish quality of Trelleborg’s new TB400 low-density epoxy tooling board and Ambler was chosen to produce the design. The model had to incorporate complex shape and compound curvature, as well as having to be finished to the highest standard, and so was an ideal fit with Ambler’s Delcam software.

The design was developed using Delcam’s PowerSHAPE CAD system, which was able to generate the smoothly flowing curves making up the shape. After the design was approved, sections were taken from the 3D model to enable the material to be rough cut to an approximate size. The component parts were bonded together and then machined with programs generated from the PowerMILL CAM software. After final polishing, an epoxy surface coating was added. The final chair was shipped to Paris to take pride of place on the Trelleborg stand at the 2009 JEC exhibition.

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Ambler Technologies was founded in Rochdale in 1969 as Ambler Patterns by Peter Chadwick, the father of the current Managing Director, Adrian Chadwick. It started as a traditional patternmaker, serving the local foundry industry. Over the next thirty years, it evolved into a specialist in CNC machining of epoxy resin and polyurethane tooling board.

More recently, the company has moved into the production of models and lay-up tooling for reinforced plastics, and also into rapid prototyping. It has also expanded outside its initial automotive business into new industries, including aerospace, defence, medical, marine, offshore oil and gas, and power generation. The name was changed to Ambler Technologies to reflect the broader interests of the company.

The [Delcam](#) software was added about seven years ago, coincident with the introduction of the company's first CNC machine and a move to the current 20,000 sq.ft. workshop. "We knew a lot of people that were using the software; in fact, it seemed to be the industry standard," remembered General Manager Craig Pickford. "All the companies we asked were happy with the software and the service so it wasn't a difficult decision to choose Delcam."

"The software fits well with the traditional patternmaking skills that form the core expertise at Ambler," added Mr. Pickford. "It is an important part of the strong technical foundations that have enabled our company's recent growth and development."

A major part of that growth has been in the manufacture of composite tooling. The company first developed the technology to produce lay-up tools and moulds for glass-reinforced plastics and has more recently also moved into carbon fibre-reinforced materials. In both areas, Ambler offers prototype and short-run production, but the company mainly delivers turnkey tooling and ancillaries for its clients to complete their own manufacturing.

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## ***Delcam's OrthoModel Boosts Orthotics Output for Blatchford***

19 February 2010

Adding [Delcam](#)'s OrthoModel design and manufacturing software has enabled Blatchford, the largest orthotic and prosthetic company in the UK, to boost its output of orthotics. The company can now process record numbers of orders. The system has also allowed Blatchford to increase its quality and consistency, and so improve the quality of life for the thousands of people who rely on the company to provide the best possible treatment for their health-related problems.

Blatchford was initially founded in 1890 to manufacture prosthetics. The company moved into orthotics in 1994 with the acquisition of Sheffield-based company O and P Services, and then added the Medicare business in 2001. The turnover is now £35 million from a staff of 450 people, of which the orthotics business makes up nearly £9 million. Despite this considerable expansion, the company is still family-owned.

"We first moved into CAD/CAM eight years ago," remembered David Bownes, Production Manager at the main orthotics manufacturing site in Sheffield. "The aims were to reduce lead times, improve our accuracy and, at the same time, offer our customers repeatability. Our main objective was to reduce the amount of time we spent hand carving so we could increase our productivity and improve our quality, while offering our Technicians a better environment to work in. We heard about the OrthoModel system from our colleagues, who had previously used this type of software, and, with that recommendation, we

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decided to give it a try.”

Like all new developments at Blatchford, the new software was trialled with a group of specialist orthotists before being considered for general introduction. After several months of trials, Blatchford moved into full production with the Delcam software in February 2009 following positive feedback from the clinicians.

An important part of the decision was the user interface for the Delcam software. “We decided to re-skill our existing technicians rather than bringing in CAD/CAM engineers because we needed people that could recognise whether or not the finished product was correct,” explained Mr. Bownes. “Even though they had little experience of computerised manufacturing, they found the Delcam software to be very user-friendly.”

“The biggest benefits come when producing a series of orthotics as the patient moves along the clinical treatment path, for example, the progressive reduction of a problem after an accident or sports injury,” said Mr. Bownes. “It is much easier to adjust the existing data rather than constantly recasting designs from the patient’s foot. It also avoids the storage issue with large numbers of casts.”

“We have cooperated closely with Delcam staff to select the best cutting tools and machining strategies,” added Mr. Bownes. “In addition, we are happy to work with Delcam on new additions to the software to take it to the next level. The latest release offers more flexibility, for example, the ability to manipulate the foot shape in seconds. Also, some clinicians prefer to use the option of measurements using the system’s data library of shapes and this can save time in the production process.”

“At Blatchford, we pride ourselves on being the market leader so we are constantly investing in the latest technology,” claimed Mr. Bownes. “We review our processes continually to ensure patient/customer satisfaction in both quality and lead time. The continued investment in our business is aimed at providing a better service to our patients’ needs. Orthotics are bespoke products rather than mass-produced items. No two patients are the same; they each have a specific problem for us to solve. Our Delcam software means that we can provide that solution in a faster and more effective way.”

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## ***Greaves Cotton Limited Expands Adoption of PTC’s Windchill for Product Lifecycle Management***

16 February 2010

PTC announced that [Greaves Cotton Limited](#), a leading manufacturer of industrial products has chosen to expand enterprise wide adoption of PTC’s Windchill® across all four business units – Gasoline/Diesel Engines, Diesel Gensets, Automotive Engines, Agro Equipment and Construction Equipment. Windchill will be used to streamline and optimize Greaves Cotton’s product development processes. Greaves Cotton is an existing customer of the PTC® Product Development System (PDS), using Pro/ENGINEER® for CAD/CAM/CAE, Arbortext® for Service Information Delivery and Mathcad® for Engineering Calculations.

“PTC has continued to invest in Research & Development, making key strategic acquisitions and forging strategic partnerships to provide customers with a comprehensive integrated product development solution built on Windchill integral architecture”

The expanded deployment of Windchill will enable Greaves Cotton to reduce time to market for its products, provide tighter communication between Research & Development and Manufacturing and be more responsive to customers’ changing requirements. Additionally, Greaves is considering

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implementing an integration between Windchill and the company's Enterprise Resource Planning solution from SAP to increase the rate of innovation and new product development, optimize product development processes and enhance overall product quality.

“We conducted a detailed evaluation of our business needs and available product lifecycle management solutions in the market, and finally selected Windchill based on its integral architecture, interoperability with legacy and competitive systems, and robust capabilities, along with PTC's technical support and services strengths. This adoption of Windchill will strengthen alignment between our product development capabilities and our business strategies, enabling Greaves Cotton to achieve our corporate and long term objectives, such as process optimization, innovation and globalization,” said Mr. Thomas Furtado, Group General Manager - Marketing Services, Greaves Cotton Limited.

“[PTC](#) has continued to invest in Research & Development, making key strategic acquisitions and forging strategic partnerships to provide customers with a comprehensive integrated product development solution built on Windchill integral architecture,” said Robert Kocis, Senior Divisional Vice President, Worldwide Channel Sales, PTC. “We are happy to broaden our partnership with Greaves Cotton, a strategic global customer, and believe that its expanded deployment of Windchill and the PDS to increase operational efficiencies will help Greaves strengthen its competitive advantage.”

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## ***Medical Device Manufacturers Turn to Dyadem for Regulatory Compliance***

8 February 2010

As medical device manufacturers come under heavier scrutiny to ensure patient safety, they are increasingly turning to Dyadem for help implementing a Quality Risk Management platform that can identify, analyze, mitigate and monitor quality risks throughout their organizations. Dyadem provides comprehensive Quality Risk Management (QRM) solutions that enable global Medical Device companies to reduce risk management effort by 50 to 80 percent.

The U.S. Food and Drug Administration (FDA) and the European Medicines Agency closely regulate the medical device industry, ensuring that patient safety is never compromised by inadequate quality management or the competitive rush to market. Yet, inherently, medical devices pose certain risks in their application, whether during production, implementation or post-implementation.

The FDA and the European Medicines Agency require documentation of risk assessment procedures and quality monitoring of all medical devices. Dyadem's software provides a framework for identifying, analyzing, mitigating and monitoring quality risks throughout the organization. Without a Quality Risk Management system, device manufacturers drastically increase their exposure to a host of business risks, including time-to-market delays, inflated manufacturing costs and significant penalties from regulatory bodies.

Diagnostic specialist DiaSorin has global operations that require the company to comply with a host of domestic and international quality regulations, including the IVD Directive, CE Marking, ISO 14971 and various FDA mandates. DiaSorin's facilities operate independently from each other, but needed a common way to assess risk and unify quality. “We wanted to harmonize the approach to risk analysis for both product and process. Dyadem meets all of our needs and allows DiaSorin to continue to set high standards for quality and ensure customer safety,” said Marco Pavan, QA Project Manager, DiaSorin.

Dyadem, provides software and consulting to many medical device leaders such as Boston Scientific,

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Roche Diagnostics, Moll Industries, Ventana Medical Systems, DiaSorin and Bepak.

Dyadem's software has allowed medical device contract manufacturer Moll Industries to standardize the quality planning process across its plants in the United States and Ireland. "To get a competitive edge you must have quality in your manufacturing processes," said Andy Jobson, director of quality, Moll Industries. "Making a product right the first time and every time thereafter is the cheapest way to manufacture. [Dyadem](#)'s software provides us with the proper visibility into our processes to ensure high quality."

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## ***PCO Innovation Partners with Schneider Electric in Maintaining Symphony, its Technical Data Management Application***

8 February 2010

[PCO Innovation](#) announced it has taken charge of maintenance on Schneider Electric's Symphony application, which is based on Parametric Technology Corporation's (PTC) Windchill technology. Symphony is the managing reference system regarding technical data in the Schneider Electric group in the mechanical, electrical and software fields with over 5000 users worldwide.

After a successful transitional period during which the PCO service centre in Grenoble took charge of and integrated all Symphony components and interfaces, PCO Innovation is ready to take on the challenges integral to a long term contract commitment, covering all application monitoring, corrective maintenance, development and top-level support.

"After more than 12 years of collaboration, we are proud to bring all of our added value to Schneider Electric with this strategic mission, which demands high levels of quality and reactivity. This mission strengthens our PTC technology service centre", declares Flavien Parrel, PCO Innovation's commercial director for Europe.

Michel Catry, responsible for PLM at [Schneider](#), adds: "Symphony is a highly critical application in our technical departments given the large number of users throughout the world, and its maintenance requires professionalism and a good knowledge of the technology, in conjunction with a strong capacity for intervention in the event problems occur. It is for these compelling reasons that we have chosen PCO Innovation."

Furthermore, PCO Innovation has added its expertise to many other projects with regard to the development of the Product Information Management (PIM) system in the Schneider Electric group including the recovery of data from older systems and transferring it to newer technologies.

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## ***SINI Selects Intergraph® SmartPlant® Enterprise Solutions for its Oil and Gas Projects***

16 February 2010

Siirtec NIGI S.p.A. (SINI), a leading engineering and contracting company operating internationally for the oil, refining, gas and petrochemical industry, has selected Intergraph® SmartPlant® Enterprise [plant software](#) solutions and related process and engineering schematics tools for its oil and gas projects.

SINI has more than 60 years of business experience and provides basic and front end design,

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engineering, procurement and construction of process plants and equipment. Its production spans across a wide range of process units including oil and gas field treatment and production as well as acid gas treatment units.

Intergraph's SmartPlant Enterprise is an integrated solutions suite that provides full design, construction, materials and engineering data management capabilities needed for the creation, safe operation and maintenance, and capital Project Life Cycle Management (cPLM) of large-scale process, power, marine and offshore projects. The software's life cycle data management also enables a smoother handover for EPCs to owner operators and for owner operators to more easily maintain, refurbish or modify their plants.

[SINI](#) launched its ambitious engineering integration project two years ago by selecting Intergraph SmartPlant Foundation, 3D, P&ID and Instrumentation as its cornerstone to support all [plant engineering](#) and design work processes. As a result, a brand new IT backbone has been created, integrating Intergraph design, data, and document management solutions with other third party systems.

Eascon S.p.A, an experienced process engineering IT consulting company, played an important role in the implementation of the project. Its strong expertise in integrating process control systems, work process re-engineering, Oracle solutions and change management was key to the integration success.

"Intergraph integrated solutions reflect and support our work processes. SmartPlant Enterprise allowed us to make the leap to state-of-the-art technology and enabled a significant improvement in our performance," said Adalberto Bestetti, SINI president. "Special thanks to both Intergraph and [Eascon](#) who worked hard to achieve this project."

For more information about SmartPlant Enterprise, please visit:  
<http://www.intergraph.com/ppm/spe.aspx>

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## ***The MathWorks Reports 60-Plus Universities Implemented Campus-Wide Access To MATLAB And Simulink Tools In 2009***

10 February 2010

[The MathWorks](#) announced that more than 60 academic institutions implemented campus-wide licenses in 2009, bringing the power of [MATLAB](#) and [Simulink](#) to more than one million students and faculty worldwide. By standardizing on the same tools used by engineers and scientists across industries, universities enable students and faculty to use MATLAB and Simulink in labs and classrooms and on laptops, accelerating the pace of learning and research and preparing aspiring engineers for future careers. [Imperial College London](#), [Keio University](#) (Japan), [Swinburne University of Technology](#) (Australia), and [University of Arkansas](#) are among the universities who implemented campus-wide licenses in 2009.

"In today's international economy, providing top-quality engineering education and developing future engineers are global issues," said Maureen Maher, manager of education marketing at The MathWorks. "Universities need to take advantage of every opportunity to train students on the tools used throughout major companies and industries. When used at all levels of university curricula, in both the classroom and the laboratory, MathWorks tools help faculty equip students with the experience needed to gain a competitive edge in the engineering job market upon graduation."

For more information about The MathWorks in academia, including how the company supports student

competitions that provide students with practical experience solving complex engineering problems, please visit [www.mathworks.com/academia](http://www.mathworks.com/academia).

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## ***3Dconnexion Powers North American Bid to Break Land Speed Record***

16 February 2010

[3Dconnexion](#) announced it has become an official sponsor of the North American Eagle™ Land Speed program. Project designers will be using the 3Dconnexion SpacePilot™ PRO 3D mouse in conjunction with Lenovo ThinkStations and ThinkPads, and Dassault Systèmes CATIA V5 and Geomagic Software to design parts and assemblies for the 56-foot long Eagle car. The goal of the North American Eagle program is to break the current world land speed record of 763 mph (1,228 kmh), set on October 15, 1997, by reaching 800 mph (1,287 kmh).

“Designing an earth-bound vehicle that can travel at supersonic speeds demands an extraordinary team of designers equipped with the ultimate tools, and the 3Dconnexion SpacePilot PRO is powering the design team to new levels of performance and productivity,” said Keith Zanghi, co-owner and director of operations, North American Eagle. “The superior 3D navigation and application control it makes possible, makes it a crucial part of our goal to set a new world land speed record.”

“The ability to perform multiple functions at once and the ease of manipulation allows me to spend more time designing,” says Don Mitchell, chief designer and programmer, North American Eagle. “Frankly, I have been using 3Dconnexion products so long I would be lost without it.”

3Dconnexion 3D mice deliver a level of control that is not possible with a traditional mouse and keyboard. Users engage both hands in a balanced and cooperative work style with one hand using the 3D mouse to position the model, while the other hand simultaneously uses the traditional mouse to select, create or edit. By spreading the workload across both hands, users experience productivity increases of more than 20% as well as a more comfortable working experience by reducing traditional mouse clicks by up to 50%.

“Being part of the North American Eagle’s quest to break the world land speed record is thrilling,” said Dieter Neujahr, president of 3Dconnexion. “SpacePilot PRO is the most advanced 3D mouse ever, and it will enable the team to design the fastest and safest land vehicle in the fastest amount of time.”

### **About the North American Eagle Land Speed Program**

The purpose of the North American Eagle™ Land Speed Program is to test the capability of a land based vehicle to safely transition through supersonic speed. The by-products of this challenge have the potential to impact high-speed rail, ground effects of high-speed aircraft in the landing configuration as well as deceleration methods utilized by high-speed vehicles.

For additional information about the North American Eagle land speed project, please visit [www.landspeed.com](http://www.landspeed.com).

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## ***Utah Design Team Uses SolidWorks to Create Skeleton Sled for Olympic Racer in Record Time and for Thousands Less Than Standard Design***

16 February 2010

A Utah design team used its metalworking experience and [SolidWorks® CAD](#) software to create a skeleton sled for an Olympic racer in a fraction of the time and for tens of thousands of dollars less typically required to produce one of the highly specialized sleds.

A skeleton sled is a compact racing vehicle that riders steer down high-speed ice tracks by flexing and shifting their bodies. Suddenly without a working sled late last year when hers was damaged, U.S. Olympic team member, 2005 and 2007 World Cup champion Noelle Pikus-Pace, turned to her husband, Janson Pace, and his employer. Janson Pace is an industrial designer at Salt Lake City-based NuQuest, a design, engineering, and manufacturing company. SolidWorks software helped NuQuest designers apply their experience producing industrial equipment, such as electrical control boards and equipment skids, to the highly specialized task of producing an Olympic-regulation skeleton sled.

“With SolidWorks, we were able to predict a lot of results that otherwise would have taken years of trial and error,” said Janson Pace. “SolidWorks Simulation let us test the sled’s strength, the loads it would have to bear, and the right materials to use so it wouldn’t buckle or deform. We modeled all the parts in SolidWorks, did the simulations, then modified them. The first physical model we produced fit together so well – because of SolidWorks’ ability to model parts properly and produce accurate drawings for the machine shop – that it was ready for Noelle to use. We didn’t have to prototype.”

The result of NuQuest’s innovation is a skeleton sled that meets Olympic requirements but departs from many sled design orthodoxies, Pace said. Skeleton racing is outwardly similar to the luge, except racers go down the tracks face-first instead of feet first. [Skeleton sleds](#) consist of a fiberglass “pod,” metal chassis and two “runners,” or blades. Most sleds are welded together, but the NuQuest sled is bolted. That makes it easier to switch out damaged or malfunctioning parts without subjecting the sled’s frame to heating and deforming. SolidWorks also enabled NuQuest to experiment with different materials to make the sled faster, where international competitions’ rules allowed.

NuQuest produced the sled in four months, which is years less than it usually takes to perfect a new design. NuQuest co-owner Troy Beckstead estimated that SolidWorks Simulation saved the company “tens of thousands of dollars” in development costs. Pikus-Pace will use the skeleton sled at the Vancouver Olympics. She was the first American woman to win the skeleton racing World Cup, and also won world championships in 2007.

“NuQuest had the skills and knowledge to create the sled even though it was very different from the products they normally design. All they needed was the right environment for testing new ideas to ensure they would work in the real world. That’s exactly what we want SolidWorks to be to them – a catalyst for their innovation,” said SolidWorks Vice President of Marketing Christine Washburn.

NuQuest works with authorized SolidWorks reseller [Go Engineer](#) for ongoing software training, implementation, and support.

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## ***Vital Engineering to Deploy Bentley’s Hevacomp Simulator V8i on \$80 Million, Mixed-Use Complex to Achieve Net-Zero Energy Impact***

17 February 2010

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Bentley Systems, Incorporated announced that [Vital Engineering Corporation](#), a mechanical engineering consulting firm focused on sustainability, has selected Bentley's [Hevacomp Simulator V8i](#) building energy simulation software to perform energy analysis on the \$80 million, mixed-use Station Pointe complex in Edmonton, Alberta, Canada, and achieve net-zero energy impact. Project success hinges on the team's ability to meet the energy requirements for this immense complex, which in its current conceptual state contains a multi-story condominium, townhouse buildings, and a 16-story residential tower. Hevacomp Simulator V8i will be used to perform energy analysis for 200-plus living units and commercial establishments on the ground level to help the firm create a better-performing, more-sustainable building complex.

The limitations of its current energy modeling software led Vital Engineering to examine several energy modeling packages. It determined that Hevacomp Simulator V8i, with its EnergyPlus analysis engine developed by the U.S. Department of Energy, is the most robust energy modeling package on the market. It also cited Bentley's excellent support of its Hevacomp software and future plans for expanding the capabilities of the graphical interface as major factors in its selection of Hevacomp Simulator V8i for this and future projects.

"We did an internal investigation of all currently available energy-modeling tools and concluded that Hevacomp would best suit our needs now and into the future," said Jacob Komar, energy modeling team lead, Vital Engineering. "The consensus was that EnergyPlus is a robust engine that performs hydronics very well. As a geothermal engineering firm, this is very important to us. Hevacomp's capabilities and its front-end interface with EnergyPlus weighed heavily in our decision."

Komar continued, "While Hevacomp Simulator is new to the North American market, the knowledge that it is the U.K.'s leading simulation software was also a factor in our adoption of this technology. Moreover, Bentley's role in further developing the technology makes us confident that the many capabilities and excellent value it already provides will only increase. For now, we look forward to enjoying a good return on our investment in this innovative software as it helps us effectively meet our energy modeling and analysis challenges."

Vital Engineering expects to begin energy analysis on Station Pointe in mid 2010. In the interim, Komar said, the design team will begin in-depth training on Hevacomp Simulator and use the software on a number of LEED projects it is currently designing.

Hevacomp Simulator V8i, along with [Hevacomp Mechanical Designer V8i](#) and [Bentley Tas Simulator V8i](#), is part of Bentley's [Energy Performance Series](#). This software for building energy design, analysis, and simulation makes it possible for engineers, architects, and energy assessors to better understand and accurately predict the energy consumption, CO2 emissions, operating costs, and occupant comfort of projects ranging from small and simple to very large and highly complex. Bentley's Energy Performance Series has been proven in the very demanding U.K. market for the design and construction of high performance "green" buildings and now supports United States and Canadian standards.

For additional information about Bentley's Energy Performance Series, visit [www.bentley.com/green](http://www.bentley.com/green).

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## Product News

### *Agilent Technologies' New LTE Applications Target 4G System-Level Designers*

16 February 2010

Agilent Technologies Inc. introduced a new line of system-level design and verification products for 3GPP LTE physical layer (PHY) design at Mobile World Congress 2010. In addition to its traditional test and measurement products, Agilent now provides predictive products and algorithmic references for the [SystemVue platform](#) that are consistent with the LTE v.8.9.0 (December 2009) standard. The new line includes four products that accelerate 4G deployment for LTE system architects, baseband hardware designers, and RF equipment by bringing new levels of realism into the architecture and modeling stages.

While 4G networks promise dramatic improvements in data throughput and spectral efficiency, the complexity of the evolving 3GPP LTE standard has forced many system architects to reconsider their use of general-purpose toolsets. By cutting across a variety of domains (such as signal processing and mathematics, baseband hardware design, RF/analog design and measurements), Agilent's new 4G products are able to provide system architects with the focused application support for LTE v.8.9.0 that they demand. Agilent's 4G products streamline verification and bring measurement-level realism into the creative process. The result is higher-performance Layer 1 architectures and algorithms resulting in earlier design maturity and the need for less design margin.

The four new products being introduced by Agilent at Mobile World Congress 2010 include:

#### W1715 MIMO Channel Builder:

The [W1715 MIMO Channel Builder](#) is a simulation blockset for LTE architecture and receiver designers, based on the WINNER and WINNER-II fading algorithms. By incorporating non-ideal MIMO antenna performance (e.g., crosstalk and directionality), the W1715 goes beyond these standard propagation models. It enables 2D far-field data to be imported from antenna measurements or 3D EM simulations, including Agilent EM PRO. Realistic antenna degradations allow accurate assessments of link-level LTE architectures and receiver algorithms to be made at a very early stage, before prototypes have been committed for the mechanical, RF/antenna, or baseband/DSP designs. Previously, interactions between these domains required a fully operational hardware radio and came much later in the design process, possibly during drive test. The W1715 brings some of this drive-test realism into the algorithm phase of the design, accelerating design maturity and performance.

The W1715 also follows the design into hardware test. The same Agilent SystemVue simulation modules are used to generate test vectors for download into multi-channel Agilent signal generators (e.g., the N5106A PXB) or interoperate with the 89601 VSA software. The W1715 offers an economical alternative to real-time hardware faders, since SystemVue can be shared on a computer network and used throughout the design process by distributed teams. Agilent's integration of design and test platforms across the LTE design cycle maximizes re-use of assets, minimizes engineering effort, and produces consistent results.

#### W1716 Digital Pre-Distortion (DPD) Software

The [W1716 Digital Pre-Distortion builder](#) helps LTE system integrators, RF component designers, and baseband architects quickly transition from 3G to 4G by creating baseband signal processing networks that improve the range of analog power amplifiers and transceiver ICs, improve efficiency, and extend

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battery life. The W1716 also quickly assesses the suitability of existing 3G designs for 4G applications. Such capabilities translate into savings for both design effort and component cost.

The W1716 consists of a wizard-based UI that automatically models and corrects common sources of memory effects, in-band EVM degradation and adjacent-channel power re-growth. The software controls signal generators and analyzers to characterize the component response to a configurable LTE signal. The W1716 produces two networks: an impaired dataflow simulation model to use at the link level, and a baseband pre-distortion network to correct for those impairments. After extraction, the W1716 completes a report documenting the actual DPD improvement it achieved, using authentic LTE v.8.9.0 waveforms, or any user-defined waveform that can be made with SystemVue.

“We identified a gap between today’s proprietary 3G DPD solutions and the market’s need for an inexpensive, open, technology-neutral platform for 4G,” said Jian Yang, ESL integrating manager at Agilent Technologies. “The new W1716 software addresses this gap. It is producing 20-dB ACP improvements on the bench, on real LTE waveforms. What used to take months in a high-end lab now takes minutes, thanks to this new technology and guided UI.”

## W1910/2 LTE Baseband Verification Library Reference Blockset

Agilent’s [W1910 LTE Baseband Verification Library reference blockset](#) has been updated to LTE v.8.9.0 and now includes expanded PRACH and HARQ support. The HARQ simulation support uses a unique dynamic dataflow simulation mode. This mode allows the symbol rate to change dynamically over the course of the simulation while retaining the timing and carrier information necessary for full RF effects, frequency-dependent phase noise, and channel fading. This capability reduces LTE simulations to minutes or hours for meaningful throughput, and BLER and EVM compliance measurements. Additionally, the updated W1910 keeps pace with changes to the Agilent Signal Studio and VSA software to maintain interoperability with Agilent measurement solutions.

“We used Agilent’s SystemVue LTE baseband verification library to validate Xilinx’s LTE reference IP against the latest version of the LTE standard,” said Bill Wilkie, wireless and signal processing director for Xilinx in Europe. “When combined with Agilent’s N5106A PXB, SystemVue not only saved us weeks of validation time, but also it gave us confidence that our LTE Layer 1 reference design was ‘production ready’ for our customers. SystemVue clearly added value to our traditional Layer 1 design and verification process. As a result, we will be using SystemVue more in the future.”

The [W1912 LTE Baseband Exploration Library](#) is a C++ source code version of the W1910 and has also been updated. The W1912 allows deeper algorithmic insights, control, line-by-line software debugging, and precise test vector generation from inside the algorithms of a working LTE v.8.9.0 physical layer.

## About SystemVue 2010

SystemVue 2010 is Agilent’s electronic design automation (EDA) platform for electronic system-level (ESL) design. SystemVue cuts physical layer (PHY) design time in half for high-performance communications algorithms and system architectures in wireless and aerospace/defense applications.

## U.S. Pricing and Availability

Agilent’s SystemVue 2010.01 will be available for download at [www.agilent.com/find/eesof-systemvue](http://www.agilent.com/find/eesof-systemvue) in early March. Pricing for the SystemVue environment starts at approximately \$17,000. A free 30-day evaluation is available at [www.agilent.com/find/eesof-systemvue-evaluation](http://www.agilent.com/find/eesof-systemvue-evaluation).

Agilent will show its new predictive products and algorithmic references for the SystemVue platform at

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the Mobile World Congress, Barcelona, Spain, Feb. 15-18, 2010 Hall 8, Stand A77. Agilent also will show its wide range of hardware platforms and software solutions that address the complex technical issues inherent in mobile communications.

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## ***Bentley Delivers New 3D City GIS Information Modeling Software to Enhance Design and Operation of Intelligent Cities***

18 February 2010

Bentley Systems, Incorporated announced breakthroughs in 3D geospatial information systems (GIS) software to support the design and operation of intelligent cities. Intelligent cities, and the intelligent infrastructure they incorporate, take full advantage of information modeling best practices. As a result, they are able to provide better performance with respect to safety, energy, lifecycle costing, and operational efficiency. Bentley's intra-operable portfolio of software features lifecycle support across all classes of intelligent infrastructure, including land management, power generation and energy delivery, water and wastewater networks, roads, bridges, rail, communications networks, and buildings. The just-released V8i (SELECTseries 1) versions of Bentley Map, Bentley Descartes, Bentley Geospatial Server, and Bentley Geo Web Publisher further extend this portfolio to include new 3D City GIS capabilities.

Commenting on Bentley's new software, Richard Zambuni, Bentley global marketing director, said, "All around the world, city governments are looking for ways to improve the sustainability of their intelligent city infrastructure to deliver a better quality of life to their citizens. Bentley's newly released 3D City GIS products enable them to adopt information modeling best practices that enhance their ability to perform urban planning, noise simulation, shadow analysis, natural disaster mitigation, public relationship management, and 3D analysis and design.

"Moreover, through the deployment of Bentley's ProjectWise collaboration services, multidisciplinary, distributed municipal project teams will be better able to connect people with information, enabling streamlined, collaborative workflows. In addition, they'll benefit from improved change management to sustain the value of information throughout the infrastructure lifecycle."

Bentley Map V8i is at the core of the Bentley 3D City GIS product portfolio. Bentley Map V8i (SELECTseries 1) now allows advanced visualization of smart 3D models; creates thematic maps; captures smart 3D features of buildings, roads, and other infrastructure; integrates 3D data from different sources; performs smart 3D object editing and quality control on the 3D data model; and creates realistic renderings and animations. Moreover, its spatial database capabilities have been enhanced through the introduction of Oracle Spatial 11g 3D object support, enabling new and unmatched enterprise workflows.

The product's standard integration with Safe Software's FME Desktop technology enables the use of multiple 3D formats such as CityGML and introduces a number of new extract, transform, and load (ETL) capabilities to the Bentley Map workflow. Bentley Map V8i (SELECTseries 1) also offers an extensive and well-documented API to allow rapid enhancement of the new functionality.

Bentley Map V8i (SELECTseries 1) in combination with Bentley Descartes V8i (SELECTseries 1) offers raster digital elevation model support and the editing of 3D raster images. By providing raster 3D editing capabilities, Bentley Descartes can be used to improve building textures.

André Tanguay, technical lead, Department of Design, Architecture and the Environment, Quebec City,

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commented, “In Quebec City, we have been using Bentley products for many years to execute our 3D City projects because of the benefits these products bring to both our city planning workflows and to our citizens. In workflow terms, it makes processes such as the advanced rendering of 3D City models or 3D design superimposition more efficient. Moreover, outcomes can be shared easily with various stakeholders. Nontechnical stakeholders like the richness and reality of 3D – it makes it easier for them to reach decisions with confidence. We look forward to taking advantage of the new 3D capabilities of Bentley Map V8i (SELECTseries 1).”

Bentley Geospatial Server V8i (SELECTseries 1) plays a major role in the Bentley 3D City GIS product portfolio by managing 3D models, textures, and workflows. It complements Bentley Map V8i’s Oracle Spatial 11g 3D object support by adding disconnected editing, long transactions, and support for Oracle Database’s time components. Bentley Geospatial Server V8i (SELECTseries 1) provides a unique way to combine 3D GIS and 3D engineering/Building Information Modeling information by leveraging Bentley innovations such as i-models for semantically rich and secure file-based information sharing. An i-model is a container for open infrastructure information exchange featuring provenance (that is, knowledge of its origin and evolution).

Bentley Geo Web Publisher V8i (SELECTseries 1) supports users with the ability to quickly and easily create Web 2.0 3D GIS applications by publishing 3D models to KML/Collada-compliant clients. The software publishes 3D City models in a highly-optimized multi-resolution data structure suitable for web data streaming.

Bentley’s 3D City GIS product portfolio is an integrated suite of products allowing the creation of smart 3D City models and the management of these models across the lifecycle. It also provides a rich set of tools to use the 3D City model in a variety of activities. GIS professionals, urban planners, designers, project managers, engineers, and citizens alike will benefit from going beyond traditional 2D GIS technology and using Bentley’s newest 3D City GIS products.

For additional information about Bentley’s 3D GIS capabilities please visit: [www.bentley.com/en-US/Products/Bentley+Map](http://www.bentley.com/en-US/Products/Bentley+Map)

[www.bentley.com/en-US/Products/Bentley+Descartes](http://www.bentley.com/en-US/Products/Bentley+Descartes)

[www.bentley.com/en-US/Products/Bentley+Geospatial+Server](http://www.bentley.com/en-US/Products/Bentley+Geospatial+Server)

[www.bentley.com/en-US/Products/Bentley+Geo+Web+Publisher](http://www.bentley.com/en-US/Products/Bentley+Geo+Web+Publisher)

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[www.bentley.com/en-US/Corporate/Publications/White+Papers](http://www.bentley.com/en-US/Corporate/Publications/White+Papers)

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## ***Cadac Organice BV Announces Offline Support in Organice Explorer 2010***

15 February 2010

Cadac Organice BV, a Microsoft Gold Certified Partner developing [Cadac Organice](#), a SharePoint based engineering document management solution, announces offline support in the upcoming Cadac Organice Explorer 2010.

Cadac Organice Explorer 2010 will bring exciting new features and functionalities of which some will be unveiled in the upcoming weeks prior to the official release on March 8, 2010. One of these new features is [offline support](#). In the new version of Cadac Organice Explorer, users are able to check out the documents they want to take offline, and work offline on these documents through the Cadac Organice Explorer interface. When documents are changed, the changes are synchronized with the

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SharePoint server when the user is back online again. Cadac Organice Explorer 2010 is developed as a smart client for Microsoft SharePoint. One of the typical characteristics of a smart client application is offline support, which is now included in Cadac Organice Explorer 2010.

Offline support is very beneficial to users that are often travelling or that work in locations where they are unable to connect. This is very common in Architecture, Engineering and Construction and other project driven engineering industries, where users are often working in the field.

Cadac Organice Explorer 2010 will be introduced on March 8, 2010.

For more information please contact:

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International Product Marketing Manager Organice

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## About Cadac Organice

Cadac Organice is a software suite for engineering document management and document control, and is fully based on Microsoft SharePoint. Cadac Organice helps project driven organizations to manage their (project) documents and to control their document distribution and tracking. For more information, please visit <http://www.organice.com>.

## About Cadac Group

Cadac Group is specialized in offering IT solutions to create, manage and share digital design information. Next to offering IT solutions, Cadac Group is an Independent Software Vendor developing Microsoft SharePoint based applications. Cadac Group is an Autodesk Premier Solution Provider, a Microsoft Gold Certified Partner and an Oracle Certified Partner. For more information, please visit <http://www.cadac.com>.

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## *CyberGlove Systems and HAPTION Partner to Enhance Dassault Systemes Product Suites*

15 February 2010

CyberGlove Systems, the worldwide leader in [data glove technology](#), partners with HAPTION, a company known for haptic hardware and software solutions for VR, CAD and PLM applications. HAPTION's Interactive Physics Simulation Interface (IPSI) API now supports the wireless CyberGlove II. Through IPSI, customers are able to add real-time physics calculation with a device, like the CyberGlove II, for manipulation within the VR or CAD environment. IPSI is used in HAPTION's implementation of physics manipulation for [Dassault Systemes'](#) CATIA, Delmia, Virtools and SolidWorks.

"I have always considered [HAPTION](#) a key partner. The fact that they have implemented support for CyberGlove in such a way validates our long-standing relationship. To have our product as a major component for hand manipulation in their human avatar for Dassault Systemes' various software suites is a testament to the value we offer to the market place," stated Faisal Yazadi, CEO of CyberGlove Systems. "This is a partnership that makes sense for both our companies, ultimately delivering what our customers want and need."

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“What is great about our solutions is with our human avatar module, we can enable manikin manipulation,” said Pierre Vercruysse, International Sales Manager, HAPTION. “You can activate the full body or part of the body with real-time manipulation, collision detection, recording and so on. With the addition of CyberGlove support, you now have very accurate hand and finger manipulation, grasping of virtual and real objects, really doing more natural interactions and operations. This is extremely important for high-end CAD and VR systems such as CATIA and Delmia, and we are the only ones that currently offer this.”

For more information, contact Faisal Yazadi, CEO of CyberGlove Systems, at [fyazadi@cyberglovesystems.com](mailto:fyazadi@cyberglovesystems.com).

## **About CyberGlove Systems LLC**

CyberGlove Systems is a global leader in data glove technology. CyberGlove Systems' products include four different data glove solutions (CyberGlove®, CyberTouch®, CyberGrasp® and CyberForce®) and its VirtualHand Software Development Kit (SDK). Its products allow users to capture detailed finger, hand, and arm movement in virtual reality, allowing users to interact with digital objects in virtual reality.

CyberGlove Systems technology benefits customers by allowing them to more quickly prototype and animate in virtual reality thereby saving them both time and money. Furthermore, CGS is the only data glove solution offering both kinesthetic force and vibrotactile feedback. This haptic technology benefits customers by simulating realistic physical forces such as gravity and touch for industrial engineering, military, and academic research applications. CGS customers include Fortune 500/Global 500 corporations, government agencies, and universities in the U.S., Europe, Asia, Middle East and South America.

The base CyberGlove® system is a wireless data glove that accurately captures the movement of a user's fingers and hand, and, in conjunction with the software, maps the movement to a graphical hand on the computer screen, allowing users to "reach in and manipulate" digital objects as if they were physical objects. The most sophisticated product, the CyberForce®, adds whole-arm force feedback allowing users to experience the complete sensation of object manipulation in virtual reality.

## **About HAPTION**

HAPTION designs, manufactures and sells 6DOF haptic devices and with professional quality, suited to the needs of its customers, both industrial and academic. The products provide force-feedback on all 6 degrees-of-freedom (translations and rotations) on large scale 1 environment. Without 6-dof, it is impossible to simulate the interaction between 3D objects. The family name of the product are Virtuouse® and Inca®. <http://www.haption.com>

HAPTION start in 2005 to deliver full suite of software to use Virtuouse® and Inca® family in CAD software, for several application : assembly, disassembly, ergonomy, accessibility to accelerate the design process. The suite of software “Interactive Fitting” is available in Catia™, Delmia™, 3DVIA Virtools™, Solidworks™. Their solution is used by Boeing, Airbus, Lockheed Martin, Nasa, Thales Alenia, PSA, Renault, Dassault Aviation, Toyota, etc.

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***Czech and Polish Version of KOMPAS-3D V11 Released***

15 February 2010

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ASCON Group announced an official launch of Czech and Polish versions of its solution for Mechanical Computer-Aided Design, KOMPAS-3D V11.

Now all the current and potential users of KOMPAS-3D and KOMPAS-Graphic in Poland and Czech Republic are able to experience even more abilities and advantages of professional solution for 3D solid modelling, 2D drafting, design and release of drafting documentation, as well as wide range of novelties and add-ons (such as piping, animation, kinematic and dynamic analysis, steel structures 3D, piping 3D, sheet-metal functional, 3D model recognition system, extended import/export opportunities and many others). Trying to be closer to its customers all over the world ASCON offers KOMPAS solutions in 8 languages: English, German, French, Polish, Czech, Portuguese, Chinese and Russian.

ASCON already has very stable and constantly growing partnership in East Europe. Certified partners of KOMPAS solution in the regions offer engineers and designers professional set of services for installation, support, maintenance and training of KOMPAS-3D.

A downloadable full-functional trial version of KOMPAS-3D V11 is available for 30 days at <http://ascon.net/download/kompas/>

To find KOMPAS reseller nearest to you and get additional information, please, visit <http://ascon.net/main/partners/> or access [contact@ascon.net](mailto:contact@ascon.net)

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## ***Dassault Systèmes Launches Release 20 of V5 PLM Platform***

16 February 2010

[Dassault Systèmes](#) (DS) launched Release 20 of its collaborative V5 PLM portfolio, including CATIA, ENOVIA, SIMULIA, and DELMIA. Today's launch of V5R20 includes enhancements to DS' ENOVIA SmarTeam multi-CAD collaboration software, integration of SIMULIA's nonlinear and thermal realistic simulation capabilities into the V5 platform, as well as unique composites design and simulation capabilities in the CATIA and SIMULIA brand portfolios. V5R20 also features various enhancements across the entire product portfolio, including digital manufacturing, furthering support for production deployments and overall usability.

V5's openness is advanced in Release 20 with updated multi-CAD integrations and a new 3D viewer available directly within ENOVIA SmarTeam. In addition, V5R20 introduces a new product, CATIA Extended STEP Interface. It enhances large assembly archiving with nested assembly support and in V5R20's Q2 2010 update will feature unique comprehensive support for composites design attributes and functional tolerancing & annotation data. Q2 2010's update to the entire V5 portfolio will also include support for Windows 7.

“Comprehensive, robust, and proven – these are words I use to describe our DS PLM implementation,” said Dan Lyvers, vice president, Engineering, Viking Range Corporation. “The breadth of the DS PLM portfolio ensures that we can consistently deliver on all of our major programs. And the tight integration of the individual solutions, including ENOVIA SmarTeam and CATIA, ensures collaboration between our enterprise and multi-discipline engineering users, enabling everyone to innovate together.”

“My guiding philosophy is that Dassault Systèmes never rests. Our commitment is to deliver not only the grand innovations that enable tomorrow's industrial processes, but also constant, unwavering improvements to our customers' deployments,” said Dominique Florack, senior executive vice president, Research & Development, Dassault Systèmes. “It is the innovations in the details, that

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frequently make the difference for our customers.”

Thanks to realistic simulation technology from SIMULIA, V5R20 now enables customers to include nonlinear and thermal physics behavior in their design while maintaining full integration with PLM data and processes.

“We are focused on designing reliable fire detection and extinguishing equipment that experiences extreme pressure during operation. It is critical that we simulate the physical performance of our products both accurately and efficiently,” stated Jean-Marie Bocquart, technical director, L’Hotellier, a Hamilton Sundstrand company. “Due to stringent performance and development time requirements, we selected SIMULIA V5 Extended Analysis to improve the analysis of our products’ nonlinear behavior during the design phase directly in CATIA V5.”

## **V5R20: Investing in Collaboration and Openness**

CATIA V5R20 serves customers in production and support business processes across all industries

### **CATIA V5R20 leverages collaboration and productivity with CATIA Composites solutions:**

Enables seamless collaboration between engineering and manufacturing thanks to full generative manufacturing part creation taking into account engineering requirements. The manufactured part is automatically created from and synchronized with the engineering part, taking down the turnaround time from a day to minutes.

Offers concurrent working on the same composite part, later merging and synchronizing separately designed stacks into a single manufactured composite part.

Delivers significant gain in productivity thanks to the new grid-based design methodology which automatically generates plies by taking each cell’s composite specifications defined during simulation and applying composite design best practices.

**CATIA V5R20 ICEM shape design solution** provides the full ICEM capabilities augmented with the V5 values: Associativity, Capture and Reuse, Know How capitalization and Business Process workflow integration.

**CATIA V5R20 delivers top requirement for the aerospace industry by promoting openness and collaboration for STEP Interface:** It advances large assembly archiving with nested assembly support and will include full composite data and FT&A in the standard STEP format. This enables long-term archiving of this data, as well as improves data exchange between different CAD formats.

**CATIA V5R20 fully addresses powertrain processes.** Functional modeling allows users to design components such as oil pans, gear boxes, or motor brackets up to 40% faster than the competition. It also enables extended collaboration on complex components designed simultaneously by multiple users.

### **V5R20 Accelerates Realistic Simulation:**

**SIMULIA Inside V5 for Enhanced Analysis:** SIMULIA Extended Analysis allows V5 users, including designers, to simulate real-world nonlinear or thermal behavior of their products with proven Abaqus FEA technology.

Nonlinear analysis capabilities now allow users to accurately simulate large displacements, complex contact interactions, and highly deformable materials such as rubber and plastic.

Integrated thermal analysis functionality enables V5 users to improve product performance by analyzing the effect of temperature distribution in parts or assemblies, such as electronic circuit boards, automotive

engines, or consumer appliances such as stove-tops.

**Rule Based Meshing:** This new product enables V5 analysis users to capture their knowledge and define meshing rules to automate the creation of high quality surface meshes. Other V5 users can then select their target simulation application such as noise and vibration, durability, or crash, and have a mesh created automatically, accounting for element quality and geometric features such as holes and fillets. This results in greater efficiency, improved mesh consistency, and greater confidence in simulation accuracy.

**Improved Analysis of Composite Materials:** V5 analysis capabilities enable users to simulate the structural integrity of composite layups defined in CATIA Composite Design (CPD). Improvements in simulation post-processing capabilities enable ply-per-ply post-processing of analysis results using ply names.

### **V5R20 Improves Digital Manufacturing and Production:**

**Enhanced DELMIA Work Instruction Composer:** The Work Instruction Composer application enabling configured shop floor Instruction authoring has been enhanced to support, among many additions, advanced synchronization of work instruction changes to design changes, multi-view support for operations and support for data collection, buy off and change notification operations resulting in a more efficient and complete coverage of this key A&D business process.

**Extended NC Milling Operations:** New finishing and high-speed milling operations reduce machining programming time, tool path execution time and tool wear. These enhancements to the already robust V5 machining solutions help the machine shop both plan and produce faster, with better quality and less cost.

**Robotics Process Coverage:** V5R20's painting package, developed in close collaboration with our partner CENIT, extends robotics programming, simulation and offline programming of DELMIA solutions in the paint domain. The rich robot library of DELMIA is also enhanced in V5R20 with new additions to support more accurate realistic robot simulations.

### **V5R20 Enriches Collaborative Innovation:**

**Enhanced CAD integrations:** New integrations, including support for SolidWorks 2009, Solid Edge v21, Inventor 2010, and AutoCAD/Autodesk Mechanical 2010, extend ENOVIA SmarTeam's openness and enhance design collaboration.

**Real time production environment monitoring:** Accelerates deployment of ENOVIA SmarTeam implementations and optimizes maintenance & support.

**Improved configuration and change management:** Multiple ENOVIA VPM enhancements enable smarter, more knowledgeable engineering decisions.

**Seamless replication and reconciliation automation, flexibility and security:** Simplifying collaboration with the extended enterprise and supply chain when using ENOVIA VPM.

A complete list of functionality enhancements in V5R20 is available at [www.3ds.com](http://www.3ds.com).

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**ESI Announces VA One V2009.0**

16 February 2010

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[ESI Group](#) announced the release of [VA One 2009](#). [VA One](#) is a complete solution for simulating [noise and vibration](#) across the full frequency range and seamlessly combines Finite Elements, Boundary Elements, and Statistical Energy Analysis (SEA) in a single model. This new release significantly enhances the functionality for modeling foams and fibers in [VA One](#).

## Poroelastic Materials

Poroelastic materials such as foams and fibers are an important part of the design of quiet products with superior [noise and vibration](#) performance. [VA One](#) is the only code on the market that includes methods for optimizing poroelastic materials across the full frequency spectrum. The [VA One 2009](#) release includes an advanced “foam finite element” solver that is ideal for modeling the low frequency response of foams and fibers. Originally developed as part of a long term research project between [ESI Group](#) and several leading universities, this solver is now fully integrated within the [VA One](#) environment.

“Modeling the vibro-acoustic response of poroelastic materials is one of our core areas of research”, *said Pr. Nouredine Atalla, Acoustic Department at the University of Sherbrooke*. “Our ongoing collaboration with ESI Group on the research, development and implementation of these methods has proven to be fruitful as shown in VA One latest release”.

## Productivity enhancements

The [VA One 2009](#) release also includes a number of unique enhancements for speeding up the creation of poroelastic models, including automatic creation of meshes from extrusion of CAD surfaces and the calculation of equivalent mid and high frequency noise control treatments from CAD.

“We are pleased to announce the release of VA One 2009” *said Dr. Phil Shorter, Director of Vibro-Acoustic Product Operations, ESI Group*. “This release is the result of a long term collaboration with our research partners and provides our customers with state-of-the-art methods for modeling poroelastic materials “.

For more information, please visit: [www.esi-group.com/va-one](http://www.esi-group.com/va-one)

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## ***EXAPT Selects ModuleWorks as CAM Components Partner***

February 2010

ModuleWorks has confirmed their partnership with CAD/CAM Solution provider, EXAPT to provide state-of-the art CAM toolpath and simulation components for the EXAPT product range.

EXAPT has a rich history in the German CAD/CAM industry with a track record of success going back over 40 years to 1967. They provide a wide range of CAM solutions from lathe through to full 5-Axis simultaneous milling. Initially EXAPT selected ModuleWorks for 5-Axis machining capability but has since gone back to partner with ModuleWorks for 3-Axis and Simulation technologies.

## **5-Axis Machining**

Back in 2005, EXAPT recognised the growing demand for 5-axis simultaneous machining. At the time they had a full development schedule enhancing the other areas of their product and were wary of diverting resource into what could be a long and expensive development project. They were also concerned about time to market and therefore elected to look for a technical partner. Having evaluated the market, they selected the ModuleWorks 5-axis machining component.

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The 5-Axis product was launched in 2007 and initial reaction to the new product was extremely positive with sales to both existing and new customers looking to utilise 5-Axis machining. Since then EXAPT has worked with ModuleWorks to continually enhance the product with new 5-Axis capability added at each release.

## **3-Axis Machining**

Following on from the success of the ModuleWorks 5-Axis integration, EXAPT began to look at other component opportunities and elected to be an early adopter for the new 3-Axis Mesh machining component which was under development from mid-2007. EXAPT was keen to bolster their 3D machining capability and provide increased flexibility and performance to their customer base.

As the 3-Axis component developed, EXAPT and ModuleWorks worked together to integrate prototype components and address specific requirements of EXAPT customers. The first EXAPT release containing the new 3-Axis component took place in mid-2009.

## **Machine Simulation**

EXAPT have now begun work with a third ModuleWorks component, Simulation and has integrated stock removal into EXAPT in their current release. EXAPT elected to use many of the inbuilt tools in the ModuleWorks Simulation component to speed time to market and maximise leverage of the technology.

Yavuz Murtezaoglu, Managing Director for ModuleWorks comments “EXAPT have been a long term partner and we’re delighted to see much of our component technology tightly integrated within their product range. EXAPT have been an excellent partner and their feedback on the use of the different technologies has been very valuable to our ongoing development”

In looking back at the ModuleWorks partnership, Dr. Arndt Richter, Managing Director for EXAPT comments, “It has been a highly beneficial relationship, both to the EXAPT company and our customers. By working with ModuleWorks we have had access to an extended development team and this has enabled us to develop software much faster than would otherwise have been the case. Each of the components have performed as expected and the 3 monthly releases from ModuleWorks have allowed us to get new features to our customers quickly.”

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## ***Generate Spare Parts Catalogues Directly from SolidWorks and CATIA***

15 February 2010

Docware GmbH has integrated the 3DVIA Player of Dassault Systèmes SolidWorks Corp. with PARTS-PUBLISHER. By embedding the viewer the 3DVIA format can be directly taken over into the catalogue software, displayed and interactively employed in the parts catalogue. 3D CAD data that conventionally needed to be transferred labour-intensively into perspective illustrations can now be automatically imported into the Workbench of the catalogue software and be employed for the display and interactive use in the catalogue within only a few minutes. With an appropriate data quality it is furthermore possible to generate spare parts catalogues for print, CD and Internet directly from SolidWorks and CATIA by the push of a button. Thereby the 3D models are highly compressed and saved from misusage.

The PARTS-PUBLISHER 3D catalogues run on any PC or notebook with a Windows operating system.

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3D models and parts list data are linked in the parts catalogue. When selecting a part from the parts list it is automatically highlighted in the 3D model and vice versa. With this feature matching information is displayed by one mouse click.

The extensive display functions of the 3DVIA Player admit for a number of interactions. 3D models and their components can be pivoted, rotated and viewed from different perspectives. The zoom function allows for infinitely zooming in and out on models or assemblies. For a better view on components the parts may be faded in and masked out. The transparent mode also serves to unveil hidden parts. Selected parts can be displayed in an additional detail window. Even here the view on the selected part can be changed interactively. Furthermore the 3DVIA Player supports animations to view for example construction or repair operations.

3DVIA data deriving from the CAD systems SolidWorks, CATIA and Pro-E may be directly integrated into the catalogue production with PARTS-PUBLISHER – manually or via interface. 3D data of other CAD systems have to be converted via interchange formats such as Parasolid, IGES or STEP into the 3DVIA format, before they are provided in PARTS-PUBLISHER catalogues via 3DVIA technology. The 3DVIA Composer serves as conversion tool. It may be embedded into the release process of the CAD model. 3DVIA Composer, a CAD-independent authoring tool, does also come into operation if 3DVIA data is to be edited before import into the catalogue database. With 3DVIA Composer vector graphics and halftone images, exploded views with parts list icons and many other 2D drawings can be effectively generated. User also may create interactive 3D animations. In case of design changes during the documentation process - that means adjustments in the 3D models - the 3DVIA Composer transfers them directly into the documentation. This synchronisation of the documentation saves money and improves its quality and consistency.

The 3DVIA Player follows the XVL Player of Lattice Technology, the JT Viewer of Siemens PLM and Arbortext IsoView of PTC and is consequently the fourth 3D-Viewer supported by the spare parts catalogue software PARTS-PUBLISHER. This is how Docware offers even more flexibility to its customers when it comes to selecting the most effective 3D technology for a needs-based catalogue production in consideration of the employed CAD system.

Established in 1987 Docware provides software for the information management in the after sales service and the spare parts business.

[Docware](#) solutions range from electronic spare parts catalogues and service information systems, spare parts shops, integrated e-commerce and e-service solutions to complex service portals.

Docware's interbranche solutions are implemented by producers, dealers and service partners of the technical manufacturing industry. The spectra of customers comprises medium-sized companies and corporate groups, dealer and customer service organisations.

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## ***GRAPHISOFT Delivers Building Information Modeling to Small Firms at an Affordable Price***

18 February 2010

GRAPHISOFT introduced ArchiCAD STAR(T) Edition 2010, the latest release of its entry-level building information modeling (BIM) software. Available today, ArchiCAD STAR(T) 2010 gives small architecture firms a fully-functioned BIM solution without the hefty price tag.

The new [ArchiCAD STAR\(T\) Edition 2010](#) is built upon the latest BIM technology introduced by

# CIMdata PLM Industry Summary

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ArchiCAD 13, but tailors the feature set and price to the needs of small architectural practices, home builders and building contractors. The software includes all of ArchiCAD 13's design and documentation capabilities without the group collaboration and high-end modeling and visualization features required by large firms.

New features in ArchiCAD STAR(T) Edition 2010 include:

- Gradient and image fill enhancements
- Improved Open GL display in 3D
- Symbolic soft insulation
- Improved Find & Select
- Custom slab/roof edge
- Embedded objects
- Latest DWG/DXF I/O interface

“ArchiCAD STAR(T) Edition 2010 brings the benefits of BIM to a wide array of customers at a very competitive price,” said Miklos Szovenyi-Lux, vice president of product management, GRAPHISOFT. “Architects with tight budgets can now have the latest BIM technology at a price proportionate to their size.”

ArchiCAD STAR(T) Edition 2010 is available for the suggested retail price of \$1,995. For more information please visit the [official product website](#).

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## ***ICAM Launches Gold Series Post-Processors for Mastercam***

18 February 2010

ICAM Technologies Corporation (ICAM) announced the release of its Gold Series product line of ready-to-use post-processors running behind Mastercam.

ICAM Gold Series products have been developed to support the most widely used machine tools and controllers with little or no editing required. As popular CNC machines are introduced into the marketplace, additional Gold Series post-processors will be created and posted on ICAM's Web site at <http://www.icam.com/Go4Gold>.

Gold Series post-processors are available from standard 3-Axis to 5-Axis Mill and simple Mill / Turn applications. Forward-looking optimization features such as path planning, rotary axes pre-positioning and winding are also included in this new product line.

All Gold Series post-processors include sample "art-to-part" processes demonstrating its use and are delivered with basic editing capabilities for special customer requirements.

Integrated Part Verification (tooling, fixtures, stock and part) to validate the cutting process, or Integrated Machine Simulation & Part Verification (CNC Machine model, tooling, fixtures, stock and part) to validate the complete manufacturing process may be delivered optionally with all Gold Series products.

Integrated Machine Simulation & Part Verification provide Mastercam users with the means to simulate

and test NC programs against collisions and over-travel and to identify, list and display surface gouges, excess material, inaccessible areas and rapid-motion crashes at any time during the post-processing and verification phase.

“With Gold Series products, ICAM can now offer high-quality post-processing and machining simulation solutions to the Mastercam market at a competitive price,” says Sam Chehab, ICAM’s VP of Sales & Marketing. “All Gold Series posts and standard best practices material have been developed by ICAM senior applications engineers and are ready for use.”

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## ***Luxion Releases KeyShot***

16 February 2010

Luxion, leading makers of advanced rendering and lighting technology, announced the first release of KeyShot™. With a tagline “The Key to Amazing Shots”, KeyShot is an interactive raytracing and global illumination program that breaks down the complexity of creating photographic images from 3D models. KeyShot is available for immediate purchase for both PC and Mac from <http://www.keyshot.com>.

KeyShot uses a physically correct and CIE verified rendering engine featuring many innovations developed by 2004 Academy Award© Winner Dr. Henrik Wann Jensen. Some of the core features of KeyShot are: CPU driven, runs on any modern PC or Mac, Unbiased Sampling Techniques that compute mathematically correct results, Scientifically Accurate Materials, Multi-Core Photon Mapping, Adaptive Material Sampling, and a Dynamic Light Core that allow users to see results at the same time as changes are being made. Combined with its ease of use KeyShot gives anybody involved with 3D data the ability to create photographic images in a matter of minutes, independent of the size of the digital model. KeyShot supports many native file formats, including SolidWorks, Rhino, SketchUp, Obj, IGES and STEP.

KeyShot is the replacement for the HyperShot software, the first interactive raytracing and global illumination program, also developed by Luxion. Featuring the same 6 button user interface, KeyShot also has a number of significant improvements over the HyperShot software such as:

- Certification for Mac OS X Snow Leopard Version 10.6
- Faster rendering speed
- Improved overall image quality
- Support for direct import of SolidWorks 2010 data
- All new importer platform including support for IGES and STEP on Mac OS X
- New high-quality HDRIs from [www.hdri-locations.com](http://www.hdri-locations.com) and [www.hdrilightstudio.com](http://www.hdrilightstudio.com)

“I’m delighted to hear that the team behind the product will be able to provide consistency and continuation for the user community,” said Al Dean, Editor-in-Chief, DEVELOP3D. “It became a core part of many users’ workflow and for many offered them competitive advantage. Being able to very quickly produce ultra photo-realistic imagery supports the decision making process. Having already looked at the first KeyShot release from Luxion, it’s a new name, but it’s the same team with the same great product - can’t wait to see what they’ve got coming next.”

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“KeyShot is based on more than a decade of research in efficient rendering algorithms”, said Henrik Wann Jensen, Chief Scientist of Luxion. “Being able to create amazing images in realtime on any computer without specific requirements such as special graphics card is the goal of our research. We have developed several novel algorithms that take full advantage of all the cores in modern CPUs in order to deliver the ultimate rendering tool for end users.”

Pricing for KeyShot starts at \$995, while KeyShot Pro sells for \$1,995. Educational and floating license version are also available. Please contact [sales@luxion.com](mailto:sales@luxion.com) for further information.

## About Luxion

Luxion specializes in technology advancing state-of-the-art in computer based lighting simulations. They have expert knowledge in areas related to daylighting (atmospheric scattering), light scattering by materials (BRDF and BSSRDF models), light transport algorithms such as photon mapping, and realtime rendering technology. They offer consulting and develop proprietary applications and libraries for customers in need for software capable of precisely calculating the scattering of light in complex 3D environments.

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## ***Mentor Graphics Eases Android Development with Support of Inflexion Graphical User Interface on the Zoom OMAP36x-III Mobile Development Platform***

15 February 2010

Mentor Graphics Corporation announced the immediate availability of the Mentor® [Embedded Inflexion](#)™ User Interface (UI) for rapid customization and differentiation of Android-based devices built using the Zoom™ OMAP36x-III mobile development platform (MDP), which features the Texas Instruments (TI) OMAP3630 processor. The Inflexion UI is available on Android and is ideally suited to work with Zoom OMAP36x-III MDP in addition to TI’s OMAP processor-based eBook development platform.

The Zoom OMAP36x-III MDP is a feature-rich, portable handheld platform that provides innovative hardware and software—including support for OpenGL ES graphics acceleration—for the rapid development of mobile devices. Mentor Graphics offers a specialized Android solution that provides an integrated OEM-customizable 2D/3D platform. The combined products provide embedded developers of Android devices with the ability to develop and manage multiple user-interfaces and create dynamic graphics, animation and 3D effects, in order to meet the innovative product needs demanded by today’s consumers.

When used within the TI’s eBook development, eBook manufacturers have the ability to quickly and customize graphical user interfaces to enhance the functionality of an eBook device. With the support of color screens and new configurations, eBook manufacturers will look for ways to simplify and enhance the user experience through the use advance UIs.

“Design of next-generation user interfaces goes well beyond creating new and cool icons, focusing on the applications and the services integrated on the device. TI is very pleased to support Mentor Graphics and its Inflexion UI platform, providing users with rich and immersive experiences and manufacturers with the ability to quickly and easily customize their UI for multiple themes on the Android platform,” said Fred Cohen, director of worldwide ecosystem, TI. “TI’s popular OMAP 3 application processor, with its high performance graphic capabilities, enables technologies like Mentor Graphics Inflexion UI

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to be installed quickly on a range of mobile devices from smartphones to eBooks, and transform our digital mobile lifestyle.”

“The Zoom OMAP36x-III MDP is essential for smartphone and MID application developers and we are proud to be aligned with TI’s mobile development initiative,” said Glenn Perry, general manager, Mentor Graphics Embedded Software Division. “Our OS-independent Inflexion UI technology delivers superior design scalability through Mentor’s multi-OS/multicore strategy, leveraging Mentor’s Nucleus, Linux, Android and other operating systems, to create innovative and highly differentiated end-products.”

The Mentor Graphics Embedded Software Division comprises the Mentor Embedded family of products and services, including embedded software intellectual property (IP), tools, and consulting services to help embedded developers and silicon partners optimize their products for design and cost efficiency. More information on Mentor Embedded products and services can be found at the website: [www.mentor.com/embedded](http://www.mentor.com/embedded).

## **Mobile World Congress 2010: Zoom OMAP36x-III MDP Platform and eBook Demonstrations**

The Zoom OMAP36x-III MDP for Android-based graphics is featured at Mobile World Congress in Barcelona, Spain this week at Booth 8A84. In addition, TI is showing a dual-screen configuration—a thin film transistor liquid crystal display (TFT LCD) and electronic paper display—on its Android-based eBook development platform that features the Mentor Graphics Inflexion UI. This demonstration will showcase multi-media functionality such as WVGA video playback, MP3 playback and photo viewer using touch-screen technology.

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## ***New Lawson for Fashion Solution Helps Speed Product Time-To-Market***

18 February 2010

Lawson Software introduced Lawson for Fashion, a comprehensive enterprise software system for fashion companies, including brand owners and manufacturers of apparel and accessories as well as private brand retailers. Lawson for Fashion, which is generally available today, helps fashion companies improve profits, combat chargebacks and accelerate product time-to-market, while helping reduce software implementation time. It is built on the latest version of the Lawson M3 Enterprise Management System, [Lawson M3 10.1, which was also announced today](#).

Lawson for Fashion marks the latest industry-specific enterprise software system based on the Lawson M3 system. It combines core enterprise business software with industry-specific applications, such as [Lawson Fashion PLM](#) and [Assortment Replenishment Planner](#). It also includes Analytics for Fashion, a pre-configured Business Intelligence solution with KPIs and scorecards specific to the fashion industry. Analytics for Fashion helps companies track and measure key operational data, which helps foster better, faster decision making.

Lawson for Fashion also offers the Lawson Value Management tools, which help companies identify and quantify, in advance, potential business process improvements and helps prioritize improvement opportunities within their business.

Lawson for Fashion includes many application enhancements:

**Assortment & Replenishment Planner**, which helps companies manage assortment planning, buy

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plans and inventory push all the way to eventual product phase out.

**Lawson Analytics for Fashion**, which provides business intelligence without having to develop analytic tools in-house. The solution combines 80 pre-configured key-performance indicators (KPIs) with 90 built-in industry-specific scorecard templates and helps companies make better, faster decisions.

New package management functionality, which includes capabilities for complex package structures and SSCC (Serial Shipping Container Code) plates, which helps speed products through shipping and receiving.

An advanced costing and pricing toolbox, which provides capabilities to help merchandisers source more effectively based on the cost of alternative supply methods.

A standard PLM (Product Lifecycle Management) interface between Lawson Fashion PLM and the Lawson M3 Enterprise Management System, which helps companies more easily transfer style information between the two systems.

Propper International, Inc., a leading apparel manufacturer specializing in military and law enforcement gear is among the first Lawson customers to move to the latest version of the Lawson system. Propper, which is one of the largest suppliers of uniforms to the U.S. Department of Defense, is using the system to help it streamline key business processes relating to production and business management.

“When we got an advance look at the new Lawson for Fashion offering with its M3 10.1 Enterprise Management system, it really impressed us and we became a pilot site. The numerous enhancements and new features are tailored around our industry-specific needs and proven best practices,” said Devin McCarthy, IT director for Propper. “With all our data and information in Lawson for Fashion, we are able to connect business processes from initial product concept to delivery to the end customer, which helped us to maximize efficiency and agility at Propper.”

"With our latest version of Lawson for Fashion we are redefining enterprise applications for the fashion industry, giving companies tools they need to help turn their inventory into cash faster – based on our deep knowledge of the fashion industry and its challenges from serving more than 350 fashion customers globally,” said Frédéric Champalbert, general manager, Fashion, for Lawson. “With Lawson for Fashion we help our customers improve key business processes by converting data into actionable information."

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## ***NGC® Streamlines Global Trade Logistics with New Vendor Payment Automation Solution***

17 February 2010

[NGC®](#) (New Generation Computing®) announced the introduction of its new Vendor Payment Automation software, designed to streamline and automate the process of matching documents and approving vendor invoices in global trade logistics

Available as a module for NGC’s e-PLM® and e-SPS® software, Vendor Payment Automation (VPA) enhances the capabilities of NGC’s for PLM and Global Sourcing/Visibility. VPA leverages the supply chain data that is already contained in e-PLM and e-SPS, including purchase orders, packing, shipments, quality, compliance and testing, and warehouse receipts. It eliminates manual processes with a low-cost, easy to use solution and centralizes all documentation required for vendor payments.

Upon receipt of vendor invoices, VPA automatically validates the information and communicates

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payment status to the supplier, alerting them when to expect payment and eliminating unnecessary phone calls, faxes and emails. Key features of Vendor Payment Automation include:

- \* Provides a central repository of all documents that are needed to support vendor payments
- \* Supports multiple documents from multiple sources
- \* Allows rule-based comparison of documents
- \* Automatically validates and matches all required documents
- \* Alerts users of any discrepancies, enabling issues to be quickly resolved
- \* Imports and exports data to third-party ERP and Accounts Payable systems

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## ***Planview Brings New Dimensions to Portfolio Management with Brand Impact Analysis Capability***

16 February 2010

Planview® announced the industry's first Brand Impact Analysis capability – new in Planview Enterprise®. Brand Impact extends traditional portfolio analysis to leverage drivers of brand preference and the competitive landscape to optimize the market impact of products, features, and services. This new capability is based on an exclusive partnership with Strategic Harmony®, enabling product and brand managers to infuse the voice of the customer into the product pipeline to increase brand equity and competitive differentiation.

“Brands are one of the most valuable and strategic assets in any organization. The vast majority of organizations lack a systematic way to leverage their brand intelligence to optimize the product pipeline”

“Brands are one of the most valuable and strategic assets in any organization. The vast majority of organizations lack a systematic way to leverage their brand intelligence to optimize the product pipeline,” said Patrick Tickle, executive vice president of products, Planview. “We are excited to incorporate the brand dimension into portfolio management, enabling customers to better align their product and brand strategies and more efficiently bring truly differentiated products to market.”

Key benefits of the Brand Impact Analysis capability include the ability to:

- Establish a consistent, repeatable business process that improves collaboration between marketing and product development
- Allow organizations to leverage their existing customer and market research to make better product roadmap decisions
- Objectively evaluate the impact of new product and enhancement opportunities against quantified brand and competitive metrics
- Employ proven Strategic Harmony® framework and metrics that have been successfully implemented in innovation-intensive companies

The new capability will enable product managers and brand managers to collaborate based on a shared view of the ideal customer experience, and understand why customers buy their products. Building on this, they can focus scarce resources on those products and enhancements that matter most and get them to market sooner, capitalizing on windows of opportunity to increase the impact of R&D spending on

brand loyalty, growth, profitability, and shareholder value.

The Brand Impact Analysis capability helps organizations deliver products and services most likely to differentiate them competitively, by providing the intelligence required to effectively reprioritize the portfolio based on each initiative's potential competitive impact. Customers will be empowered to evaluate their current portfolios against a competitive baseline.

“Planview has done a tremendous job of bringing our methodology to life in a high-value software context, not only with a compelling user experience but also by seamlessly integrating it into a best-in-class enterprise-wide portfolio management solution,” said Steven Cristol, founder and managing partner of Strategic Harmony Partners. “As a result, many more companies will be empowered to improve their product development ROI and business performance by having easy access to the Strategic Harmony® portfolio optimization model. With Brand Impact Analysis, we share Planview's excitement and vision for advancing best practices in product portfolio management.”

The new Brand Impact Analysis capability of Planview Enterprise will be available in the first quarter of 2010. To learn more, register for the upcoming Planview Product Expo at [www.planview.com/getready](http://www.planview.com/getready), or contact [market@planview.com](mailto:market@planview.com).

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## ***Planview Redefines Portfolio Management by Bringing Breakthrough Capabilities to Business Leaders Across the Enterprise***

16 February 2010

Planview® announced the newest release of Planview Enterprise®, its end-to-end portfolio management solution. This release helps business leaders harness the opportunities presented by the ‘new normal’ environment, which places a premium on a company's ability to successfully manage growing demand and expectations with constrained resources – people and money.

“Planview Enterprise 10.1 is another example of our ability to partner with customers across IT, product development, and the line of business to broaden the relevance and benefits of portfolio management across the enterprise.”

Highlights of the release include:

- A new **Operational Planning Solution** that introduces enhanced Capacity Planning and Roadmapping capabilities
- Enhanced Portfolio Analysis** functionality that incorporates brand and competitive dimensions in investment decision making
- Extension of Execution Management** to support the Agile development methodology and Release Management that improves the delivery and performance of development organizations
- Depth in Financial Management** that brings new levels of transparency to the costs of delivering products, programs, services and projects

### **Extending Portfolio Management to Transform Operational Planning**

The new Planview Operational Planning solution fills a critical gap in enterprise-wide planning processes. It allows organizations to create a dynamic and consistently relevant operating plan – one that is integrated with established financial and strategic processes and that allows for in-flight updates to

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accommodate changing business conditions. With a cohesive, responsive operating plan developed collaboratively, management can ensure that all levels of the enterprise can transform a unified strategy into effective action. New Operational Capacity Planning features ensure that resources are optimized against demand, to achieve a more revenue- and business-driven approach to planning.

Unique Roadmapping capabilities enable organizations to communicate a unified operating plan by publishing an interactive roadmap that reflects what the organization can confidently deliver and when. Roadmaps provide an integrated view of products, applications, services, technologies, campaigns and more, enabling the quick assessment of delivery schedules with customized views across product lines, lines of business, and the enterprise. Drill-down capabilities make it easy to understand the implications of modifying the roadmap and release plan, enabling organizations to obviate schedule issues before they impact productivity.

## **Bringing New Dimensions to Portfolio Analysis**

The new Brand Impact Analysis™ capability for the first time incorporates Marketing into the portfolio management process by adding brand drivers and the competitive landscape as new dimensions into portfolio analysis. Leveraging exclusive intellectual property from Strategic Harmony®, product and brand managers can uniquely infuse the voice of the customer into the product pipeline to increase brand equity and competitive differentiation.

## **Customer-Focused Enhancements to Execution Management**

Enhancements to Planview Enterprise support the Agile development methodology, which enables software development teams to be more market-focused by effectively responding to customer requirements. Now, organizations can leverage an industry-leading portfolio management platform to support both Agile and traditional development methodologies.

The new Release Management capability within Planview Enterprise allows organizations to track and manage releases and their associated products and projects. With a visual reference for date dependencies between various releases, products, and projects or applications, organizations can ensure on-time delivery, and can better communicate priorities, release dates, and requirements, while minimizing resource overloads.

## **Greater Depth in Financial Management**

New financial management capabilities cover the planning-to-execution spectrum. Within financial planning, organizations can now forecast revenue of products and services. In execution management, new capabilities include enterprise resource costing of labor, improved management of capital expenditures, and enhanced support for program funding and charge backs. This release represents the culmination of integrating the industry-recognized Business Engine Network financial capabilities into Planview Enterprise.

## **New Features in Analytics**

Planview Enterprise Insight Analytics includes new analytics and reports to support the new capabilities of Planview Enterprise 10.1. Prebuilt analytics for Operational Planning and Demand Management support the planning phase, and configurable treemap views showing the relative importance of large datasets enable quick overviews across complex portfolios.

## **Core Functionality Updates**

Planview Enterprise 10.1 also includes significant enhancements to project and resource management

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driven through Planview customer Inner Circle programs. Enabling new levels of end-to-end process maturity, these enhancements improve project owners' ability to deliver on time and budget with enhanced resource and project tracking abilities.

## **The Ongoing Commitment to Interoperability**

Finally, in support of this Planview Enterprise release, Planview is introducing two new offerings within its OpenSuite interoperability line.

**Planview OpenSuite™ for Siemens® Teamcenter® PLM** ties together the organizational capacity planning of Planview Enterprise® with the program execution of Teamcenter to enable the operational excellence that product development organizations need to increase competitive advantage.

**Planview OpenSuite for Atlassian® JIRA®** makes possible out-of-the-box integration between Planview Enterprise and JIRA, a popular issue-tracking system, especially for Agile development groups. This integration enables collaboration and operational efficiencies between developers and product managers by leveraging investments in preferred technology platforms.

Planview Enterprise 10.1, Planview OpenSuite for Siemens Teamcenter PLM, and Planview OpenSuite for Atlassian JIRA are available this quarter. To learn more, register for the upcoming Planview Product Expo at [www.planview.com/getready](http://www.planview.com/getready), or contact [market@planview.com](mailto:market@planview.com).

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## ***SURFCAM V5 Release Today***

16 February 2010

Surfware, Inc. announced the release of SURFCAM V5. New features continue to be added to SURFCAM in the multi-Axis, 2 & 3 axis and lathe products. All the new capabilities and enhancements in SURFCAM V5 fulfill wide-ranging customer requirements. SURFCAM V5 will be available immediately to all SURFCAM Sales partners and customers worldwide.

“This release continues to build on and extend all the new features and enhancements implemented in SURFCAM V4, with the emphases on 'ease of use' to provide maximum gains in multi-axis programming and machining productivity.”

."This release of SURFCAM V5 proves to be a significant release of SURFCAM for NC programmers who require world class precision and control from their CAM system," says Greg Schils, Product Manager of the SURFCAM product suite. "This release continues to build on and extend all the new features and enhancements implemented in SURFCAM V4, with the emphases on 'ease of use' to provide maximum gains in multi-axis programming and machining productivity."

Some of the new features in SURFCAM V5 for 4 and 5 axis programming are:

- Roughing Multi-Pass routines
- Plunge Roughing
- Morph pocketing toolpaths
- New depth cut strategies
- Automatic surface extensions

In addition to all the new multi-axis enhancements are:

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- New 3-axis Z-Finish routine
- Multiple Tool Rest-Roughing toolpaths
- Viewable C-view planes for enhanced visualization
- Selectable operations in the Operations Manager for posting
- Set Axis/C-view gnome representation
- Updated lathe package
- TrueMill Calculator
- SURFCAM Backup Utility

Enhancements have also been implemented into the patented TrueMill® toolpath including an updated slicer for better quality toolpaths, faster toolpath calculation time, intelligent pocket ordering that reduces overall rapid moves, the ability to turn off the "open pocket" cutting for 3-axis cuts, "depth first" cutting to allow for more efficient tool motion, and pilot hole support for TrueMill operations.

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## ***TradeStone Introduces Free Fashion Forward™ Migration Tool for Gerber webPDM™***

16 February 2010

[TradeStone Software](#) announced the immediate availability of “*Fashion Forward™*,” a FREE migration tool for retailers and brand manufacturers.

TradeStone’s new offering is providing retailers with a safe, trusted alternative to Gerber’s acquisition of Yunique. With TradeStone, leading retailers around the world can use a single system to unify and manage their merchandise process, building great brands driven by inspiration and creativity.

“We’ve been listening to our customers and prospects who are concerned about what Gerber’s recent acquisition of Yunique will mean for them,” said Sue Welch, CEO, TradeStone Software. “Historically in the software industry, multiple platforms obtained through acquisition leads to solution rewrites, integration challenges and upgrade delays. By migrating their PLM activities to TradeStone we are removing all the uncertainties they were facing and providing them with a clear path forward. They can be secure in the knowledge they are using the best solution available, as recognized in a leading retail analyst firm’s [PLM/MLM Vendor Assessment](#). In fact, TradeStone ranked higher than Gerber and Yunique combined.”

Retailers and brand manufacturers interested in learning more about “Fashion Forward” are encouraged to register for the Gerber Migration Webinar on March 9 at 11:00 am ET. Visit [www.tradestonesoftware.com/pdmmigration](http://www.tradestonesoftware.com/pdmmigration) for more details.

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## ***Zuken Launches E<sup>3</sup>.series Revision Management Module***

18 February 2010

In a world of constant change comes new capability for Zuken’s [E<sup>3</sup>.series](#) with E<sup>3</sup>.RevisionManagement. This new module enables users to compare and document changes between projects in the electrical

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engineering solution E<sup>3</sup>.series and provides reports and tracking functionality for traceability and comparability in the design of wiring, harnesses, cable assemblies and control panels. In addition to improving the efficiency of change processes, it also enables users to verify compliance with industry standards.

E<sup>3</sup>.RevisionManagement compares two versions of a project, usually the current version to a previous version, or the current version to a marked-up version. The analysis and change results are clearly identified for the user, with modifications highlighted through changed colors, in a change table, with balloon markers, and in a spreadsheet showing detailed changes including non-graphical attributes in the design. This enables users to track variations with previous designs and analyze changes suggested by reviewers of the design, making it much easier to apply the resulting ECO's (Engineering Change Orders) for production and manufacturing of end products including machines, trains, airplanes, special vehicles and automobiles.

"This is the perfect addition to our PLM system," said Heiner Morich, Technical Project Manager from Vossloh Locomotives. "With E<sup>3</sup>.RevisionManagement, we have the ability to verify our compliance with ISO certification and rail standard DIN EN 61082.

"In particular, the generation of a detailed and complete change history for our manufacturing documentation, the automated revision of parts lists and subsequent transfer to our production system, has led to significant time and economic savings. Moreover, the number of errors has been reduced within the revision workflow and which has been further optimized using error analysis."

E<sup>3</sup>.RevisionManagement is integrated with E<sup>3</sup>.e-PLM and SAP R/3, and can also be customized to integrate with other data management solutions. This allows the user to launch E<sup>3</sup>.RevisionManagement through their PLM solution, enable the recognition of changes made between two versions of a project stored in the PLM environment, and use E<sup>3</sup>.series to display those modifications. Once complete, the output files can then be stored as part of the project history.

As each organization's design environment is different so are their needs to document a change. E<sup>3</sup>.RevisionManagement provides the ability to configure the classifications of a change and the methods in which these changes are reported to provide the maximum amount of flexibility to the user.

For more information about E<sup>3</sup>.RevisionManagement visit [www.zuken.com/e3/](http://www.zuken.com/e3/) or contact your local E<sup>3</sup>.series distributor.

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