

Contents

CIMdata News	2
CIMdata Announces the Results of its Opinion Poll on What is Most Important to Your PLM Initiative in These Stressful Economic Times	2
Company News	3
Catalog Data Solutions Provides Online Catalog for 2009 FIRST Robotics High School Teams	3
CIMPA at the Opening of the EADS Innovation Works New Technical Centre, Based in Newport, South Wales	4
COADE CADWorx fieldPipe Used on Large Image CES Project for CenterPoint Energy Featured in World Pipelines Article	6
Datastay Introduces its Referral Partner Program	6
ESI Group Subsidiary Earns ISO 9001:2000 Certification	7
ESPRIT CAM Creator DP Technology Remodels Italian Headquarters	7
Geometric to Certify Shopfloor Connectivity and Provide RapidValue Program for Oracle® Manufacturing Operations Center	8
KOMPAS Solutions Help to Save IT Budgets	9
KOMPAS-3D Users Contest is Open	9
LASCOM filialise son activité CAO	10
Leading Retailers Meet to Establish Retail PLM Standards	11
Oce Offers Newforma Software to the AEC Market	12
PTC® Announces Leadership Transitions	13
Steve Piotraczk Joins NRX as Senior Vice President, Global Sales	14
Valori Business Architects Joins Siemens PLM Software as Consulting System Integrator Partner	15
Events News	15
CAD Schroer at the HMI 2009 in Hannover, 20-24 April 2009	15
EMM 2009 - Mechatronics for Vehicles and Production	16
ESPRIT 2009 And ESPRIT Mold Version 10, By DP Technology, To Be Exhibited At Eurostampi 2009, Parma, Italy, March 19-21	17
PCO Innovation Forum 2009: A Great Hit	18
SAMTECH to Organize a Wind Turbine Simulation Event at EWEC 2009	19
Sescoi Launches WorkNC® Dental Labs	20
Synopsys DesignWare IP for PCI Express First IP to Pass Agilent Technologies' Inline Error Injection Testing	21
Visionary Simulation Tool for Cutting-Edge Technology of the Future - ITI Simulation Solutions Are Amongst CAE Highlights at the Hannover Trade Fair	22
Financial News	23
ANSYS Reports Revenue and Earnings Growth for Fourth Quarter and 2008 Annual Results and Updates Outlook	23
Oracle Sets the Date for its Third Quarter Fiscal Year 2009 Earnings Announcement	28
Valor Concludes 2008 with Record Cash Flow from Operating Activities of \$5.5M	29
Implementation Investments	30
Advanced Lithium Power Selects Dyadem for Quality Lifecycle Management of its Clean Technology Solutions	30
AIRBUS Purchases the Site License of SAMCEF FEA Software for Structure Analysis	31
Autodesk Names ADEPT Airmotive as Inventor of the Year for 2008	33

CIMdata PLM Industry Summary

Cambridge Silicon Radio Limited Successfully Deploys Calibre DFM Solutions to Help Drive Rapid Process Migration	34
Chalco Shandong Adopts PTC® Pro/ENGINEER® To Accelerate Design And Production Of Solid-Liquid Separation Equipment	35
CONTACT Wins Major Federal Ministry of Transport Tender	35
Design Department Saves Days of Work by Using a Virtual Night Shift	36
Embedded CFD Helps Reduce Number of Thermal Prototypes from Up to 12 to 1	38
Hamilton Sundstrand Selects PTC to Improve Compliance with S1000D Standards	39
Leading Train Manufacturer, CAF, Partners with Exa to Optimize Aeroacoustic Performance of its Newest High-Speed Models	40
Mentor Graphics Eldo Simulator used by STMicroelectronics to Characterize 32nm Cell Libraries	41
Mentor Graphics Olympus P&R and Calibre Verification Platforms Qualified for 32nm IC Designs at STMicroelectronics	42
Patient-Specific Simulation to Improve Understanding of Cerebral Aneurysms	43
Shanghai Automotive Industry Corporation Standardizes on Siemens PLM Software's Teamcenter Technology	45
Siemens PLM Software-Sponsored Race Teams Off to a Roaring Start; Winning Races, Breaking Records	45
Siemens PLM Software-Sponsored Race Teams Off to a Roaring Start; Winning Races, Breaking Records	47
Siemens PLM Software Technology Used for Design and Engineering of Award-Winning Nissan GT-R	48
Virage Logic Selected by NEC Electronics as Trusted IP Partner for Advanced 40nm Technologies	49

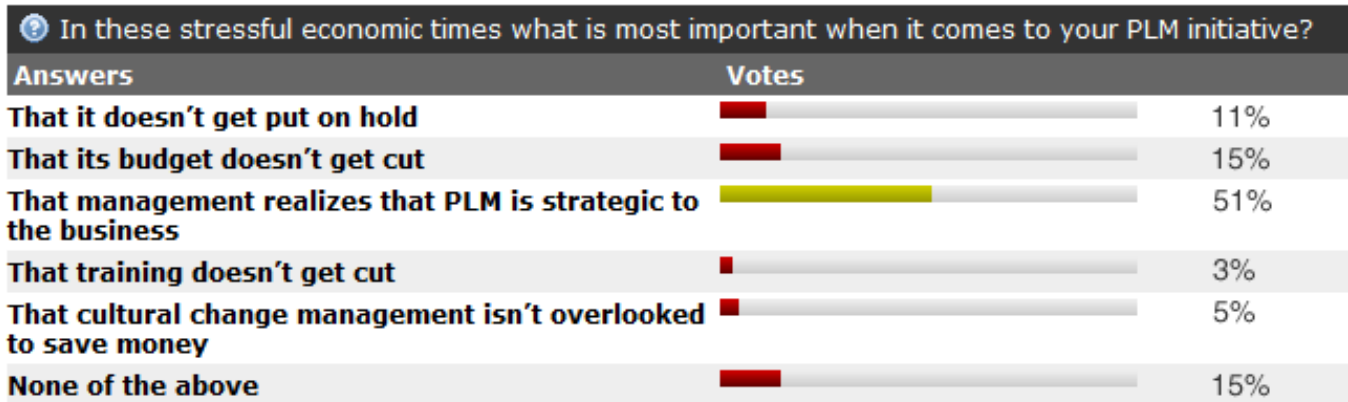
Product News	50
Agilent Technologies' New System-Level Communications Design Software Speeds Development Cycle	50
CENIT Adds Solution for Simulating Physical Systems to PLM Portfolio	51
Delcam Offers NC-PartLocator for Accurate Machining	51
E ³ .cable 2009 Climbs the Hierarchy	52
Geometric Enables Integration of Teamcenter and DELMIA	53
Geometric Releases NestLib® 2009 R1 with Significant Speed Improvements	54
LEDAS Improves Variational Sketching Usability with Release 2.2 of its LGS 2D Geometric Solver	55
Mastercam's Multiaxis Machining Increases Speed and Finish	56
Right Hemisphere Joins PLM Alliance and Contributes Visualization to Alliance's ezPLM Solution	56
ROHR2 Update 30.3b - Pipe Stress Analysis Now Released	57
Siemens PLM Software Delivers Parasolid Version 21	58
STAR-CCM+ V4 is Now Available From the User Services Site	59
Surfware Selects ModuleWorks for 5-Axis Machining	60
VX 2009 Delivers Fully Expandable CAD/CAM with Built-In Learning	61

CIMdata News

CIMdata Announces the Results of its Opinion Poll on What is Most Important to Your PLM Initiative in These Stressful Economic Times

6 March 2009

CIMdata PLM Industry Summary



Over the past several months, many of our industrial clients have asked us how the current economic climate has impacted the status of PLM implementation initiatives. In order to better understand the current situation, CIMdata is in the process of analyzing, releasing, and reporting the results of a set of CIMdata Polls concerned with this topic. January's CIMdata Poll asked participants how the current stressful economic times have impacted their PLM programs. As reported last month, 63% of the participants reported that their PLM program has been negatively impacted in some manner. Last month's CIMdata Poll asked poll participants what was most important regarding their PLM initiative. In this poll, CIMdata sought to understand the main concerns held by PLM technologists during the current stressful business climate. The results proved to be rather interesting.

As illustrated in the graph of the poll results, just over half of the participants indicated that they were concerned that management wouldn't, or perhaps doesn't, view their PLM initiative as strategic to the business during these stressful economic times. One could easily argue that if a company's management team views PLM to be strategic to its business, then they would be less likely to cut its budget, remove resources, limit training, put it on hold, etc. However, the January poll indicates that the majority of programs have already been negatively impacted. This points to the apparent need to better educate management on the importance of PLM and how PLM can benefit the company during stressful as well as non-stressful business cycles. Finally, it is interesting to note that the questions that asked about specific budget-cutting effects were not selected in any large percentage, as compared to the non-budget issues. This re-enforces that the poll participants are much less concerned about tactically-oriented budget cuts that can be lived through, than they are that management doesn't view PLM as strategic to the business. CIMdata's recommendation based on these results is that PLM teams should continue to regularly update their management teams on the benefits being realized by the business due to continued use and adoption of PLM.

[↑ Click here to return to Contents](#)

Company News

Catalog Data Solutions Provides Online Catalog for 2009 FIRST Robotics High School Teams

3 March 2009

Catalog Data Solutions Inc. ([CDS](#)) announced the launch of two online CAD libraries of [PTC](#) Pro/ENGINEER models for FIRST (For Inspiration and Recognition of Science and Technology) high school programs: FIRST Robotics Competition (FRC) and FIRST Tech Challenge (FTC).

CIMdata PLM Industry Summary

Pro/ENGINEER is PTC's 3D parametric CAD/CAM/CAE software. PTC has modeled the FRC and FTC kits of parts and, with CDS, made it available to the competing teams through an online CDS catalog for drag and drop download directly into Pro/ENGINEER.

FIRST strives to engage students in grades K-12 in programs designed around the use of robotics to develop science and technology skills and motivate students to pursue careers in science, technology and engineering. PTC is a sponsor and the highest level supplier - Crown level - of the FIRST Robotics Competition. PTC is also the CAD and Collaboration sponsor for FTC. All participating teams have the opportunity to use PTC's Windchill® content and process management software, PTC's Pro/ENGINEER and Mathcad® engineering calculation software schools editions, and PTC's ProductView™ visual collaboration software.

"The FIRST competition is a highly educational and inspirational experience for all participants - students, coaches, mentors, volunteers and sponsors. The practical collaboration and product design is helping to develop the skilled technology workforce of the future" said John Major, CEO of Catalog Data Solutions. "We're proud to support PTC's sponsorship by powering the FRC and FTC Pro/ENGINEER CAD Libraries with our CDS Catalog and CDS ModelServer technology. This online CAD model library is for the use of all competing teams and helps FIRST meet its education goals by introducing participants to online mechanical part search and CAD downloads."

According to Robin Saitz, senior vice president and executive sponsor for PTC's partnership with FIRST, "With direct access to the FIRST CAD Library from within Pro/ENGINEER, FIRST students and mentors can quickly search for specific parts and download the CAD models. Because FIRST teams have only a few short weeks to design their robots, quick access to the kit of parts models lets the teams focus on robot design rather than modeling standard components. We are happy to work with CDS to bring these Pro/ENGINEER models to FIRST teams worldwide"

About FIRST

Accomplished inventor Dean Kamen founded FIRST in 1989 to inspire an appreciation of science and technology in young people. Based in Manchester, N.H., FIRST designs accessible, innovative programs to build self-confidence, knowledge, and life skills while motivating young people to pursue opportunities in science, technology, and engineering. With the support of many of the world's most well-known companies, the not-for-profit organization hosts the FIRST Robotics Competition and FIRST Tech Challenge for high-school students, the FIRST LEGO® League for children 9-14 years old, and the Junior FIRST LEGO League for 6 to 9 year-olds. To learn more about FIRST, go to <http://www.usfirst.org>.

 [Click here to return to Contents](#)

CIMPA at the Opening of the EADS Innovation Works New Technical Centre, Based in Newport, South Wales

January 2009

CIMPA, is a wholly-owned subsidiary of the AIRBUS division of EADS. CIMPA comprises three main business units, located in France, Germany and the United Kingdom employing around 1,100 experts.

CIMPA offers consultancy plus end-to-end IT lifecycle solutions (development, integration and support) - helping organisations to have leaner, safer and more competitive business processes.

With over 15 years of experience and numerous successful large-scale projects deployed within EADS

CIMdata PLM Industry Summary

and its divisions, CIMPA has an understanding of processes and technology, which is reflected in their range of consulting, training, technology and support offerings. Major clients include the EADS Group (comprising Airbus, Astrium, Eurocopter, MBDA, Sogerma, Defence and Security), DaimlerChrysler, Renault, Stork Fokker, Messier Dowty, Liebherr, GKN Aerospace and the NHS.

RFID-based lifecycle solutions for leaner, safer and more competitive business processes

CIMPA is proud to participate in and support this exciting event to mark the opening of the EADS Innovation Works new technical centre, based in Newport, South Wales. This event provides CIMPA with a good opportunity to reinforce our position within the EADS family as being the PLM service provider of the world's leading aircraft manufacturer.

With experience in system development, integration and implementation activities, CIMPA has been well positioned to develop its range of TrakLOGIK® products. These involve the conception, integration, deployment and support of flexible, scalable and cost effective Radio Frequency Identification (RFID) based lifecycle solutions. RFID is a rapidly evolving technology that can improve visibility, control, operational efficiencies and customer service. RFID will fundamentally transform the way information about products, equipment and even people, is gathered and used in real time, thus providing new business opportunities.

At CIMPA, we are applying our PLM expertise and experience to integrate RFID technology into practical, flexible, scalable and cost effective solutions that deliver exceptional end-to-end visibility to enable leaner, safer and more competitive business processes.

Our solutions are being developed and deployed in a wide range of industries including those that share parallels with our core industry. For example, in the healthcare industry, our proven experience in developing and delivering safety critical solutions for the aviation industry is extremely desirable. This parallel was emphasised by the UK's Chief Medical Officer in his 2005 annual report: "Aviation has a much better record on safety than the healthcare industry and much can be learned from them."

As well as providing technical design, RFID consultancy and support for the PULSE demonstrator at EADS Innovation Works, CIMPA is pleased to have the opportunity to demonstrate some of its other RFID-based lifecycle solutions. Our demonstrations reflect our expertise in integrated RFID technology and include:

- Our TrakLOGIK® Blood Management Demonstrator: a solution to improve safety and efficiency throughout the blood transfusion process by combining RFID and barcode technologies with aerospace best practices to meet compliance with UK and EU blood regulations.

We are delighted to announce our latest contract award in healthcare for Poole Hospital NHS Foundation Trust, where we will implement our new TrakLOGIK® Blood Management Solution during the course of 2009.

- Our Landing Gear Demonstrator: this outlines our concept for how RFID technology could be used to improve configuration management control, reduce line of sight access requirements and automate configuration changes.

We have a number of other RFID items on display and we look forward to seeing you over the course of the event to discuss our RFID capability.

For further information about our products and services please contact us at:

CIMPA LTD.

New Filton House
Golf Course Lane
Filton, Bristol BS99 7AR
Tel: +44 (0) 117 936 1720
Fax: +44 (0) 117 936 4786
Email: enquiries@cimpa.uk.com

 [Click here to return to Contents](#)

COADE CADWorx fieldPipe Used on Large Image CES Project for CenterPoint Energy Featured in World Pipelines Article

2 March 2009

COADE, Inc. announced the publication of a World Pipelines magazine article about IMAGE Custom Engineering Solutions, Field Services division (IMAGE Field Services), using CADWorx fieldPipe to successfully complete the “as-built” computer modeling of over 70 gas compression stations owned by CenterPoint Energy Field Services as part of the company’s project to re-document all of its electric distribution facilities in Texas, Oklahoma, Louisiana and Arkansas.

The program combines the precise laser technology of Leica Geosystems for accuracy and, in real-time, ties into the CADWorx intelligent plant design systems to produce deliverables in the field, allowing modeling of the as-built installations to be easily completed onsite with less manpower and with full accuracy. The article was based on interviews with Greg Miller, operations manager for Image Field Services, and Don Nuckels, PE, the president of Image CES. By using CADWorx fieldPipe, the article describes how Image Field Services completed in six months what would have taken years to do using traditional manual methods. “To my knowledge, this is the largest project on which CADWorx fieldPipe has been used here, and it never missed a beat,” Nuckels explains in the article. Information about COADE products is at www.coade.com. A reprint of the article is at <http://www.coade.com/newsrsls/ices.pdf>, or it can be seen in the December edition of World Pipelines magazine.

 [Click here to return to Contents](#)

Datastay Introduces its Referral Partner Program

4 March 2009

Datastay Corp announced an enhanced incentive program for individuals and businesses that refer prospective clients to Datastay. The Datastay Referral Program, launched in January, allows existing partners and customers, as well as third party (individuals or businesses) to provide sales referrals and be compensated for each closed sale. Additionally for each referral, the referrer will be automatically entered into a monthly draw for various prizes and cash rewards. Each referral constitutes one entry into the draw that month, there are no limits to how many referrals can be provided, and the entrance into the draw is not linked to a successful sale.

The Datastay Referral Program is simple and anyone qualifies. After completing a short form and acknowledging the terms and conditions of the program, members are up and running quickly.

CIMdata PLM Industry Summary

Samantha Morris, Marketing Programs Manager at Datastay Corp says, "Our customers and partners deal each day with the type of companies that can best benefit from our solutions. We receive several referrals from customers and a lot of our business does result from word of mouth. All we're trying to do now is compensate individuals and businesses that have suggested Datastay as an alternative to their colleagues."

Once registered as a referral partner, Datastay will keep participants informed of relevant events at Datastay, such as new applications and services that can be shared with their network, including new marketing materials and special incentives associated with the program.

For more information about the Datastay Referral Program, please email partner@datastay.com or visit <http://datastay.com>.

 [Click here to return to Contents](#)

ESI Group Subsidiary Earns ISO 9001:2000 Certification

4 March 2009

[ESI Group](#) announced the ISO 9001:2000 certification by Bureau Veritas of its subsidiary Mecas ESI in the Czech Republic, covering the Middle and Eastern European market. This recognizes a well-implemented Quality Management System (QMS) in both the head office (Plzeň) and two other offices (Brno and Mladá Boleslav) for providing software solutions, training, technical support, and related consultancy in the field of computer simulation of virtual prototype testing and manufacturing.

In 2000, ESI Group obtained a first ISO 9001 certification, in order to meet our customers' needs throughout an ever-growing network covering more than 30 countries.

This additional certification of Mecas ESI confirms ESI Group's commitment to meet the challenging, internationally recognized quality requirements for software development and engineering services.

Mecas ESI's [ISO 9001:2000](#) certification allows ESI Group's current and future customers to rely on an even more transparent and reliable solution provider.

"The fundamental prerequisite for any business success is the focus on customers and the fulfilment of their requirements – especially in terms of quality", declared Karel Luňáček, Management Representative and Managing Director of Mecas ESI. "In today's competitive market, customer satisfaction has become a crucial element of our business strategy. The ISO 9001:2000 standard positions the customer as the focal point of a process-based Quality Management System, and for this reason, we have decided to be certified according to this standard," he continued.

 [Click here to return to Contents](#)

ESPRIT CAM Creator DP Technology Remodels Italian Headquarters

3 March 2009

[DP Technology](#), creator of ESPRIT® computer-aided-manufacturing (CAM) software, managed to do improve a classic when it revamped its Italian headquarters in Florence, Italy.

Improvements to the interior of the roughly 80-year-old refurbished classic Florentine-style building were completed in the fall, when the final delivery of new furniture took place.

"Having a high-tech software development team housed in a traditional 19th century apartment-style

CIMdata PLM Industry Summary

building, with its large rooms and 15-foot ceilings, is pretty unusual,” said DP President Paul Ricard. “However, it creates an ambiance of quiet strength and class — a little bit like the software we build.”

Improvements to the building were overseen by Philippe Albert, director of DP Europe, who designed the new look and feel of DP Italy.

“His design provided us with more functional space, more storage space and an overall better layout,” said Simone Festevoli, applications engineer for DP Italy.

 [Click here to return to Contents](#)

Geometric to Certify Shopfloor Connectivity and Provide RapidValue Program for Oracle® Manufacturing Operations Center

3 March 2009

[Geometric Limited](#) announced that it is working closely with Oracle and will become a system integrator for Oracle® Manufacturing Operations Center.

As part of the relationship, Geometric is announcing two important initiatives to help customers benefit from Oracle Manufacturing Operations Center. First, Geometric is currently the only System Integrator (SI) authorized to test and to certify solutions that connect Oracle Manufacturing Operations Center to shopfloor devices. Products from Kepware, Matrikon and ILS are being tested for Oracle Manufacturing Operations Center compatibility for real-time connectivity and performance by Geometric.

Second, based on the feedback from the Oracle Manufacturing Operations Center Customer Advisory Board, Geometric has defined a RapidValue Solution Package to enable fast realization of tangible business value from Oracle Manufacturing Operations Center. This package helps customers minimize risk and realize benefits from Oracle Manufacturing Operations Center within weeks, and mitigate typical implementation uncertainties related to cost, scope and time.

Oracle Manufacturing Operations Center addresses the need for accurate and timely information about product and process quality, insight into manufacturing operations, and performance of manufacturing assets. It solves the complex problem of connecting fragmented, disconnected shopfloor data to the business context of back-office systems. The product is designed to be ERP agnostic. This combination delivers real-time monitoring and analysis of shopfloor operations – a foundation for running Continuous Improvement (CI) programs such as Lean and Six Sigma.

“Geometric has demonstrated a commitment to the manufacturing software marketplace and built a team by bringing together industry experts with extraordinary skills,” said Oracle’s Manish Modi, Vice President, Manufacturing and PLM Development. “This makes Geometric a very important and trusted partner for Oracle Manufacturing Operations Center. Geometric is one of the select companies that has in-depth knowledge of Oracle Manufacturing Operations Center capabilities and implementation processes.”

“Geometric is committed to the manufacturing operations domain, and we are very happy to announce these two initiatives for Oracle Manufacturing Operations Center. We believe that the RapidValue Solution Package will allow customers to deploy Oracle Manufacturing Operations Center in a very short period of time, and leverage the solution to reduce cost and improve quality,” said Kamal Ajitsaria, Head of Manufacturing IT Practice at Geometric.

Geometric has also set up an Oracle Manufacturing Operations Center lab in its Pune facility with a

CIMdata PLM Industry Summary

complete test setup of the Oracle E-Business Suite, Oracle Manufacturing Operations Center, connectivity solutions from Oracle's shopfloor communication partners, and PLCs to mimic a realistic shopfloor systems environment. In this lab, the solutions from Oracle's shopfloor communication provider partners are tested and certified for connectivity and integration with Oracle Manufacturing Operations Center.

The Oracle Manufacturing Operations Center team in Geometric is also working actively with Oracle to develop prototype solutions and add-on applications.

Geometric is a member of the [Oracle PartnerNetwork](#).

 [Click here to return to Contents](#)

KOMPAS Solutions Help to Save IT Budgets

5 March 2009

ASCON always pay great attention to cost-effectiveness of software initial and maintenance costs both for the enterprises and freelancers. In today's economy situation the value for money concept proved itself, more and more CAD users cut down spending and choose in favor of professional solutions at a lower costs.

ASCON has already addressed this new demand by offering flexible pricing policy: software for rent, cross updates and CAD trade-in offers. Now ASCON announces even more attractive deals for CAD users – to download Light or Demo Versions of KOMPAS professional and cost-effective solution for 3D Solid Modelling, 2D Drafting, Design and get 25% discount for purchasing of KOMPAS-3D or KOMPAS-Graphic within one month after demo usage.

With help of freeware KOMPAS-3D LT, which is available at <http://www.ascon.net/download.php>, users all other the world are provided with a possibility of becoming familiar with modern software which enables easier, faster and more accurate design. Within one month after downloading of any of above-named solutions users will be able to buy KOMPAS-3D Professional at only 650 euro for 1 Year License.

KOMPAS-3D is a full-functional Mechanical Computer-Aided Design system intended for creating three-dimensional associative models for individual parts and assembly units containing both original and standardized structural elements at affordable and reasonable price. The parametric technology offers obtaining quickly models for typical products basing on a once designed prototype. Numerous service functions facilitate solving auxiliary designing and production maintenance problems. Basic version of the solution also includes KOMPAS-Graphic for two-dimensional drafting, design and release of documentation. This drawing editor offers broadest capabilities for automation of design and engineering works in various industries.

Get more information about the offer or request your special conditions at contact@ascon.net or your local reseller. Check for the KOMPAS consultant and reseller, nearest to you, at <http://www.ascon.net/resellers.php>.

 [Click here to return to Contents](#)

KOMPAS-3D Users Contest is Open

2 March 2009

CIMdata PLM Industry Summary

ASCON Group, developer of CAD/AEC/PLM softwares, announced 7th annual Modelling Contest for users of professional MCAD solution, KOMPAS-3D. All the CAD specialists are welcome to take part in the event in the year of ASCON 20th anniversary and to share results of their models designed in KOMPAS.

The contest is yearly held among the enterprises and individuals using KOMPAS-3D. More than 100 companies from all over the world have presented their projects during the years. Many of them took part in the contest several times. This year following nominations are open:

- The best professional projects made in KOMPAS-3D (up to 200 parts, from 201 to 999 parts, from 1000 to 4999 parts, over 5000 parts)
- The best branch projects made in KOMPAS-3D
- The best professional projects made in KOMPAS-3D and specialized add-ons

Winners of the contest will be awarded with valuable prizes from ASCON and Sponsors of the event. To participate in the contest user should just fill the "Application Form" at <http://www.ascon.net> and send it together with KOMPAS-3D project files or screenshots to contact@ascon.net until May 1st 2009. Contest results and awards to be announced in the end of June 2009.

For more information about KOMPAS-3D Users Contest 2009 please contact us at contact@ascon.net.

 [Click here to return to Contents](#)

LASCOM filialise son activité CAO

3 March 2009

LASCOM has created LASCOM CAD Solutions, a company dedicated to the sales and services of Autodesk solutions.

Details:

*Parce que le métier de la CAO et celui du PLM sont différents, **LASCOM a créé LASCOM CAD Solutions**, société dédiée à la vente et aux services associés des solutions Autodesk.*

Revendeur des solutions du plus grand éditeur de CAO sur PC depuis 1995, LASCOM est l'un des plus importants VAR (Value Added Reseller) d'Autodesk en France.

Pour Jean Louis Henriot, PDG de LASCOM "**la création de LASCOM CAD Solutions est le reflet de notre confiance dans les produits Autodesk qui sont les meilleurs du marché. Par « meilleurs », nous entendons que les produits Autodesk ont un rapport prix/fonctionnalités sans équivalent sur le marché. Par ailleurs, le discours d'Autodesk sur le Digital Prototyping donne des perspectives de valeur ajoutée très importantes dont nous saurons profiter.**"

"La création de LASCOM CAD Solutions s'explique également par deux raisons essentielles, développe Sophie Dupuich, Directrice Générale des Opérations Techniques et Financières chez LASCOM :

- *La scission entre l'activité d'intégrateur de solutions CAO et d'éditeur de PLM permettra à chacun des salariés de mieux se **concentrer sur son cœur de métier**. En effet, la création de l'entité*

CIMdata PLM Industry Summary

LASCOM CAD Solutions se traduit par une organisation optimisée de l'activité CAO avec une stratégie rectifiée de pur « revendeur et intégrateur » et un encadrement renforcé.

- *D'autre part, cette séparation des activités permettra également **d'affiner les résultats de chaque entité**, notamment avec un suivi plus précis de l'activité Autodesk à travers une comptabilité analytique distincte. »*

L'équipe de LASCOM CAD Solutions est aujourd'hui composée de 11 personnes pour répondre aux exigences de nos clients acquis et en devenir. Filiale à 99,99% de LASCOM, son siège social est basé à Saint-Etienne et les agences régionales sont situées à Mulhouse et Nancy. Son chiffre d'affaires sur l'année 2008 avoisine les 3,5 millions d'Euros et son activité est rentable.

Son responsable opérationnel est Guy Carlier :

*“Notre équipe CAO a un réel savoir-faire métier et notre organisation nous permet d'être en permanence à l'écoute de nos clients, afin de leur apporter une réponse adaptée au plus juste des besoins : **Conseil, formation, installation, maintenance et bien sûr, une hotline performante.** Notre clientèle présente un taux de satisfaction extrêmement important et, bien que le contexte de la délicate année 2009 soit incertain, nous souhaitons optimiser encore notre travail, gage de la qualité d'échange au quotidien avec nos clients et prospects, ceci restant la base de notre progression”*

*“Nous ne pouvons qu'apprécier la naissance de LASCOM CAD Solutions. LASCOM a toujours été dans le peloton de tête de nos partenaires en termes de ventes. Aujourd'hui, **la spécialisation de l'organisation LASCOM CAD Solutions et sa valeur ajoutée en services (formation et hot line) aura un impact plus que positif sur son activité et notre partenariat.**”* Ajoute Richard Comte, Directeur des ventes manufacturing pour la France et l'Afrique du Nord chez Autodesk.

L'activité d'éditeur de PLM de LASCOM devrait de son côté annoncer prochainement une progression notable sur 2008 et une prévision de croissance à deux chiffres sur 2009.

Source: <http://www.lascom.fr/index.php?p=presse&id=68>

 [Click here to return to Contents](#)

Leading Retailers Meet to Establish Retail PLM Standards

3 March 2009

[TradeStone Software](#) announced that the Company is working with the largest retailers in the world to form the first PLM for Retail Standards Committee establishing standards to support the creative design process for developing private label and branded merchandise. TradeStone is working side by side with retailers to create standards for codes, information flow and business processes, as well as address concerns on embedding safety, government testing and regulatory requirements in the design process. The inaugural event took place at TradeStone headquarters, February 25-26 and was attended by Charter Members from every retail category including department stores (Macy's, Kohl's), specialty apparel (American Eagle Outfitters, Pacific Sunwear), hardlines (Guitar Center, Lowe's) and grocery (Auchan). Other Charter Members include Boots (drugstore), Urban Outfitters (specialty apparel) and JD Williams (catalog).

CIMdata PLM Industry Summary

The PLM for Retail Standards Committee is an outgrowth of the TradeStone STARS User Group meeting in September. Retailers agreed that creating standards for process, content and data is a necessity that will save all parties involved precious time and resources and support speed to market initiatives. The two-day event, broken down by tracks for softlines and hardlines, featured discussions on how to build standards for color, materials and fabric libraries, as well as testing and point of measure codes which will make it easier for everyone to collaborate. The hardlines representatives discussed color, packaging, testing and safety protocols. Committee representatives also touched on integration with tools such as Data Color and other color service providers, as well as out of the box conversion capabilities, conversions from legacy PDM systems and conversions from current PLM technologies.

"By establishing a process that is both generic to the retail industry but specific to each retail segment, we feel we've made a significant step in the right direction," said Ann Diamante, Chief Product Officer, TradeStone Software. "We had an interactive and informative two-day session that focused on working together to establish a consistent, unifying, easy-to-adopt infrastructure of collaboration among retailers, suppliers and their supporting service providers including agents, component suppliers, color and inspection companies. This is the first of quarterly meetings to come, and we look forward to not only having more of our retail clients join, but also welcoming outside suppliers, inspection companies and other technology providers as we work to create a standard that facilitates the creative design process."

 [Click here to return to Contents](#)

Oce Offers Newforma Software to the AEC Market

3 March 2009

[Oce](#) announced that it has entered into an agreement with Newforma, Inc. to resell Newforma® Project Center project information management (PIM) software in the US. This new agreement strengthens Oce's ability to streamline document workflow for the Architecture, Engineering and Construction (AEC) community with software that not only removes inefficiencies from project execution but also from project-related document processing and printing.

"Oce is pleased to announce this new relationship with Newforma," said Sal Sheikh, Vice President, Marketing, Wide Format Printing Systems division of Oce North America. "With Newforma's innovative software, AEC customers gain direct access to a solution that can help them better manage their project information - from email to the digital exchange of drawings and model views. In addition, its integration with Oce Client Tools™ software enables users to simplify their printing and avoid costly workflow bottlenecks."

Newforma Project Center Software Improves Project Execution, Mitigates Risk

[Newforma](#) Project Center PIM software enables a more productive environment for the entire AEC project team by streamlining work processes; reducing exposure from errors and omissions; and improving documentation organization, access and communication.

Newforma Project Center is an easy-to-learn solution that provides:

- Organization and management of all internal project information, including email
- Sharing and tracking of published project information with external team members across all projects
- Streamlining of project execution processes.

This enables users to:

CIMdata PLM Industry Summary

- Reduce the time spent performing daily administrative tasks like filing, searching and managing information
- Recapture administrative hours for billable activities
- Re-use project information
- Completely assemble or search archived information
- Track issues and monitor project progress.

Integration with Océ Client Tools Software Streamlines Document Printing Process

Océ Client Tools software, part of the Océ Repro Desk® Server and Océ Repro Desk Professional suite of applications, enables CAD users to simplify printing and avoid costly workflow bottlenecks via batch-processing of multiple file types, digital file previewing from the desktop before printing, and local or remote job submission. Integration with Newforma Project Center saves AEC users steps in the wide format printing process by allowing users to select a group of files - as opposed to opening documents one at a time using external applications - to be automatically added to an Océ Client Tools print set. Files can then be processed and submitted locally to a printer that is enabled with Océ Repro Desk Server 1.6 or remotely to a reprographer running Océ Repro Desk Professional or Océ Repro Desk Select software.

Availability

Newforma Project Center PIM software is currently available for order through Océ.

 [Click here to return to Contents](#)

PTC® Announces Leadership Transitions

5 March 2009

[PTC](#) announced that C. Richard Harrison has been named chairman of PTC's board of directors. James Heppelmann has been named president and chief operating officer and will report to Mr. Harrison, who continues as chief executive officer. Noel Posternak, previously PTC's chairman, remains a member of the Board of Directors and will serve as PTC's Lead Independent Director. All changes became effective March 4, 2009.

"Dick Harrison and Jim Heppelmann are two of the best executives in this industry," said Posternak. "The partnership that they have formed over the last ten years has delivered valuable solutions for our customers and strong business results for our shareholders. As CEO and president, Dick has focused relentlessly on setting a winning course for the company, and I'm confident that he will make an excellent chairman. Together, he and Jim have guided the company to a leadership position, based on great technology and a focus on serving the customer. In short, they're a great combination."

In addition to his new role as chairman, Mr. Harrison will continue as CEO and will have ultimate strategic and managerial oversight of the company. Mr. Harrison will also continue to focus on cultivating the company's relationships with strategic customers. As president and chief operating officer, Mr. Heppelmann will assume responsibility for managing the operating business units of the company and will work closely with Mr. Harrison in setting company strategy.

"This succession plan has been underway for some time, as reflected by Jim's appointment to the Board of Directors in 2008," said Harrison. "Given his accomplishments in leading our product development

CIMdata PLM Industry Summary

and marketing efforts, Jim has established himself as the company's next leader and demonstrated that he will be successful running our operations. This is a natural evolution of leadership at PTC. I'm looking forward to working with Jim to evolve our winning business strategy, while also continuing to work with our customers to address their product development challenges. I'll rely on Jim to align our operating functions for best advantage."

As a 20 year veteran of the PLM industry, Heppelmann has been responsible for some of the most important advancements in the industry. Early in his career, Heppelmann helped start Metaphase and served as the company's CTO. He departed Metaphase to found Windchill Technology, with the vision of delivering the first web-native PLM system. Subsequently joining PTC through an acquisition, Heppelmann quickly rose to the position of executive vice president and chief technology officer, responsible for all product strategy, product development, and marketing.

Harrison added, "Jim has a unique combination of entrepreneurial vision and the management skills necessary to run a large company. He's a relentless innovator and an inspiring leader who will rally the company behind him. Combine those attributes with his ability to drive large-scale programs, and you've got the makings of a great president and COO."

Commenting on Posternak's contributions to PTC, Harrison added, "Noel's contributions to PTC predate his service as our chairman. He's been involved since the founding of the company, and has guided the company through both good times and difficult periods. We're pleased to have him continue as a member of the Board."

Harrison joined PTC in 1987 as the vice president of sales distribution and led PTC's rise to prominence in 3D CAD. He spent six years in the role of president and COO, assuming the role of CEO in 2000. Recognizing the need to address larger product development issues for customers, Harrison transformed the company into a broad, enterprise software firm with multiple solutions. Since that time, Harrison has led the company to market leadership, with record annual revenues and operating profits.

"Dick is a tremendous leader and mentor, and I'm looking forward to working with him in my new role," said Heppelmann. "He's been the lifeblood of the company for almost 25 years, and his commitment to delivering value to customers and his passion for winning are qualities that are infused in all of us. The good news is that he's as committed today as he was in the beginning, and I don't see that changing as a result of this transition."

Heppelmann added, "The PTC executive management team is the best in the business, and I'm pleased to have their support. This team has worked together for years, and we're all looking forward to PTC's next great run. To a person, we care deeply about the company, our customers, and our employees, and when combined with the competitive advantage that we have in the market, we're excited about our future."

 [Click here to return to Contents](#)

Steve Piotraczk Joins NRX as Senior Vice President, Global Sales

27 February 2009

[NRX Global Corp.](#) announced the appointment of Steve Piotraczk to Senior Vice President, Global Sales.

"Steve is the seasoned strategic account sales leader we have been looking for to help us position our enterprise value proposition and global go-to-market relationship with SAP with large capital asset

CIMdata PLM Industry Summary

intensive customers. He also possesses the personal and professional characteristics that we at NRX, and our customers will enjoy working with” said Paul Gray, CEO of NRX.

With a strong background in manufacturing and supply chain at companies including Ariba, JM Solutions (a division of JM Family Enterprises), FreeMarkets, Reynolds and Reynolds, and General Motors, Piotraczk held key sales leadership roles and drove rapid revenue growth at multiple software solution companies. He was a key member of the FreeMarkets sales team that grew revenue from \$6M in 1999 to \$172M in 2004 before the company was acquired by Ariba.

 [Click here to return to Contents](#)

Valori Business Architects Joins Siemens PLM Software as Consulting System Integrator Partner

4 March 2009

[Siemens PLM Software](#) announced that [Valori Business Architects B.V.](#) has signed on as a local Consulting and System Integrator (C&SI) Partner in the PLM domain area of systems engineering, specializing in [Teamcenter® software](#), Siemens PLM Software's digital lifecycle management solution.

[Siemens PLM Software's Consulting and System Integrator \(C&SI\) Partner](#) program's objective is to work strategically with partners who provide industry, domain or process specific expertise. These competencies complement offerings from Siemens PLM Software and, when coupled together, ultimately provide greater value to our customers and prospects as they embrace PLM transformational programs throughout their business.

Valori is an independent project consultancy company, specializing in four areas of expertise: outsourcing, package selection & implementation, integration of information systems and customized software. Valori supports clients in their role as commissioners of large projects that have a substantial IT component. Clients are advised on becoming better commissioners for both internal and external IT suppliers, a process which Valori calls Excellent IT Commissioning. Their services include Company Strategy, Organizational Change, Program and Project Management, IT and Business Process Outsourcing. Valori operates in telecommunications, trade and the financial sector.

Edwin Severijn, vice president and managing director Benelux of Siemens PLM Software said, “This partnership is not only beneficial to us and Valori, but first and foremost to our joint customers. We endorse Valori's vision on Excellent IT Commissioning – optimizing the success rate of large IT change projects by offering good and effective support. This vision, together with our software, makes us a partnership with a bright future across a variety of market sectors.”

Marcel Schaar, director at Valori Business Architects said: “With Siemens PLM Software we can help customers get control over their change projects. We do this by matching the demands of our clients to the appropriate IT solutions. Although we are an independent consultant, this partner agreement is very important to Valori.”

 [Click here to return to Contents](#)

Events News

CAD Schroer at the HMI 2009 in Hannover, 20-24 April 2009

24 February 2009

CIMdata PLM Industry Summary

At the HANNOVER MESSE 2009, CAD Schroer Group (CSG), the global engineering solutions provider, will be showing its latest developments in the plant design, factory layout and manufacturing arenas. From the 20th to the 24th of April 2009, visitors can watch live demonstrations and hear about customer success stories at stand G49 in Hall 17. CAD Schroer is offering free tickets for trade visitors via its Website.

Request your free visitor's ticket: www.cad-schroer.com/index.php?ziel=News-Events&ref=pr0902

CSG's products and services are designed specifically to address the needs of customers in manufacturing, plant design and factory planning, including turnkey installation providers and Owner/Operators of large process plants, by offering 2D to 3D sales configuration, all the way through to full project engineering. CSG's consultants help customers make the best use of existing data and systems while significantly improving engineering productivity.

One of CSG's product highlights, MPDS4 with FACTORY LAYOUT, offers a hybrid 2D/3D layout approach for producing project proposals. Designers can base their layouts on existing 2D drawings, or work interactively in a 3D environment, creating large process plant designs with 3D visualisations and walk-throughs. Changes can be made in 2D or 3D on the fly, and all data from the pre-sales or inception phase is reused during the main project phase. The system offers time-savings over a pure 3D approach, making it the ideal tool for pre-sales tender and conceptual design, all the way through to build order and installation maintenance.

CSG's experts will be on hand at the HANNOVER MESSE to show visitors how targeted engineering solutions can significantly increase their company's competitiveness, and is looking forward to engaging in personal discussions around specific needs and wishes.

For more information about the HANNOVER MESSE 2009 visit

<http://www.cad-schroer.com/index.php?ziel=News-Events&ref=pr0902>

For more information about CAD Schroer's products, visit

http://www.cad-schroer.com/index.php?ziel=Products&ref=pr0902_hmi

 [Click here to return to Contents](#)

EMM 2009 - Mechatronics for Vehicles and Production

March 2009

For the past 6 years, European Mechatronics Meetings have brought together the leading players from industry and research. This is the best way to exchange information on new market needs and relevant mechatronics technologies.

EMM 2009, 7th edition, will focus on mechatronics in the automotive industry (Cars, Trucks, Construction Equipments, agricultural machinery, Railroad and related manufacturing systems and industrial components).

When: June 24 & 25, 2009

Where : *Cité* Internationale Universitaire de Paris, France

Overview and objectives

Mechatronics has been defined as “approach aiming at the synergistic integration of mechanics,

CIMdata PLM Industry Summary

electronics, control theory, and computer science within the product design and manufacturing, in order to improve and/or optimize its functionality” (cf. NF E 01-010), reliability, compactness and cost.

Such a breakdown impacts:

- development tools,
- technologies,
- and management of development teams.

The conference intends to offer a forum of discussion between many people coming from different fields:

- the industrial field concerned by product development and manufacturing, including all actors in the supply chain,
- the industrial field of software tool editors, very much impacted by the mechatronics revolution,
- Academic laboratories and Institutes and Education entities.

This 7th edition of EMM will focus on the automotive industry (vehicles and production) but, as usual, best practices in other domains will be presented. The Automotive market is the one which offers great opportunities for mechatronics, and which is going drive it to a high degree of maturity.

As for previous editions, the transversal principle of EMM assures a 360 ° treatment which, beyond car industry, will cover the various areas of ground transportation and mechatronics applications on automotive production systems.

From mechatronic CAD to quality control, from sensors to mechatronic systems, from research organizations to purchasing strategies, the selected papers will offer a European benchmark, in a fast moving world.

- EMM congress will merge industry, SME’s and research around actual trends in mechatronics, in life cycle processes, key technologies, organisation and management, illustrated by examples and success stories.
- EMM Exhibition: At the same time, the exhibition space will allow visitors to carry out a real technological survey on the latest developments proposed regarding mechatronics products and services.

More information

[Call for papers](#)

[Deadline for papers submission: March 10th, 2009.](#)

 [Click here to return to Contents](#)

ESPRIT 2009 And ESPRIT Mold Version 10, By DP Technology, To Be Exhibited At Eurostampi 2009, Parma, Italy, March 19-21

4 March 2009

[DP Technology's](#) ESPRIT® 2009 and ESPRIT Mold Version 10 computer-aided manufacturing (CAM) software will be exhibited at Eurostampi 2009, scheduled to take place March 19-21 at the Parma Fairgrounds, in Parma, Italy.

Devoted to the global mold industry, Eurostampi is the center of attraction for those in search of new

mold technologies and the companies that produce them.

Those who visit the ESPRIT booth, Hall 6 Booth L17, at Eurostampi will be treated to one-on-one demonstrations and presentations of the new features available within ESPRIT 2009 and ESPRIT Mold v10, which includes a significant number of new, innovative technologies.

ESPRIT 2009 places heavy emphasis on integrated machining, the use of milling and, or turning in any combination on any type of machine tool — Swiss-turn, mill-turn, B-axis machines, etc.

Among upgrades available in ESPRIT Mold v10 are automatic tool-holder collision control, vastly improved toolpath inspection and a newly designed function for handling entry and exit movements when not using specific external links.

The new composite cycle for ESPRIT Mold v10 provides maximum flexibility by allowing users the ability to select from a wide range of machining patterns and tool-axis orientation rules. The diversity of choices gives the user the creativity to compose any complex 5-axis function with few limitations.

About ESPRIT

ESPRIT is a high-performance computer-aided manufacturing (CAM) system for a full range of machine tool applications. ESPRIT delivers powerful full-spectrum programming for 2–5 axis milling, 2–22 axis turning, 2–5 axis wire EDM, multitasking mill-turn machining and B-axis machine tools, and high-speed 3- and 5-axis machining.

About ESPRIT Mold

ESPRIT Mold is an automated easy-to-use high-speed 3-axis and 5-axis CAM system. Utilizing knowledge of in-process stock, remaining material and integrated simulation and verification, ESPRIT Mold delivers reliable programming for a wide variety of 3D machining applications.

 [Click here to return to Contents](#)

PCO Innovation Forum 2009: A Great Hit

4 March 2009

On January 27, 2009, more than 250 industrialists attended the 5th edition of the PCO Innovation Forum in Paris. This event outlines the major position that PCO Innovation holds worldwide in the independent PLM consulting & services domain.

“How to succeed in your transition to PLM” was the topic of the day’s group discussions, in the current difficult economic context. Such an important mobilization of industry experts for this type of event reflects how the effectiveness of the PLM processes and tools supporting innovation will more than ever; guarantee the survival of our enterprises.

Famous corporations presented through their testimonies, the key success elements of each step of a PLM program. PCO Innovation concluded each presentation by presenting its view on the matter discussed.

The day started with the presentation of the selection process for a PLM technology, used upstream in the PHENIX program of EADS, followed by SCHNEIDER ELECTRIC’s demonstration of the importance of data migration in the PLM transition. GEMALTO then presented the principal criteria of success in a PLM international deployment while insisting on the indispensable responsibility of the local actors in the solution’s definition.

CIMdata PLM Industry Summary

As PLM transition also depends on the users' support quality, VOLVO then presented its vision of how fundamental the role of the support organisation is as a guardian of knowledge once a project is completed. ALSTOM has also brought a light on the opportunities and the constraints of transferring a part of the PLM support to a country with lower operational costs. RENAULT then presented its PLM harmonization program while insisting on the digital factory issue, which will be one of the most important PLM challenges in the years to come.

The day ended with a round table discussion, animated by the consulting manager of PCO Innovation. The speakers had the opportunity to debate on the key points of a PLM transition, more specifically on how to manage change. PLM not only appeared as an internal factor of excellence but also as a very effective vector of integration between different heterogeneous entities within an international industrial group.

[PCO Innovation](#) invites the PLM community to attend the next edition of its Forum, in 2011.

 [Click here to return to Contents](#)

SAMTECH to Organize a Wind Turbine Simulation Event at EWEC 2009

27 February 2009

SAMTECH announced its participation in the European Wind energy Exhibition and Conference (EWEC 2009), which will be held from the 15th to the 19th of March in Marseille, France. On March 17th at 2:00 PM, SAMTECH will also organize a side event at EWEC 2009 to demonstrate to wind energy industry the power and user friendliness of the latest release of its engineering software platform "SAMCEF for Wind Turbines (S4WT)". S4WT is dedicated to the prediction of dynamic loads on Wind Turbine components, through a global model of the whole wind turbine, with or without gearbox.

Building highly reliable wind turbines is an important challenge for the future of the Wind Turbines Industry. It is crucial to remain competitive, to reduce wind turbines time-to-market as well as prohibitive maintenance costs and time during which wind turbines are idle due to mechanical problems. In order to provide an answer to these requirements, SAMTECH used its 20 years experience in the modeling of large flexible machines and its 10 years expertise in Wind Energy to create SAMCEF for Wind Turbines (S4WT), that is now a very general and open professional framework dedicated to the Virtual Prototyping of Wind Turbines.

S4WT can be used at different levels in the wind turbine engineering process and by different engineering teams pursuing the same goals (loads groups, transmission departments, component teams, integration programs...). It is made of two main parts that will be demonstrated during the workshop: S4WT Modeler for sub-models creation and S4WT Desktop for automated computations and post-processing of the whole wind turbine model with aerodynamic forces and control.

After the technical presentations of the conference, the participants will have the opportunity to ask questions and interact with SAMTECH teams. The S4WT side event will be held on the March 17th from 2.00 pm to 6.00 pm, with three sessions of one hour (first session starting at 2.30, second session starting at 3.30 and last session starting at 4.30).

The event is free of charge. Pre-registration has however to be done on http://www.samcef.com/S4WT_EWEC_Side_Event/, not later than the 13th of March 2009.

About SAMTECH at EWEC 2009

SAMTECH will be present for the whole duration of EWEC 2009 (hall 3, stand 3713) in order to perform live demonstrations of S4WT. SAMTECH will also present a paper on Wednesday 18th March in the structural design and aeroelasticity session (11.00-12.30, CT2 session) in order to bring answers to questions of experts and scientists. This article was co-written between SAMTECH Iberica and General Electric Global Research. It is entitled "Matching experimental and numerical data of dynamic wind turbine loads by modelling of defects".

SAMTECH is a member of UPWIND FP6 project that will also hold a side event during EWEC 2009.

For more information about EWEC 2009, SAMTECH side event, SAMTECH article presentation during the conference or to find SAMTECH stand on the interactive map (stand 3713, hall 3), please visit the EWEC 2009 website at <http://www.ewec2009.info>.

 [Click here to return to Contents](#)

Sescoi Launches WorkNC® Dental Labs

1 March 2009

Accurate and precise fitting of dental prosthetics is vital for their successful performance. SESCOI's new WorkNC® Dental Labs 'One button CAM' makes it easy to create precision toolpaths for complex prosthetic shapes, with automated 3-axis and 5-axis machining sequences. WorkNC European launch will take place at the International Dental Show in Cologne, 24-28th March 2009, on stand F051, Hall 11.1, whilst its launch in France will be at Industrie Lyon, 10-13th March 2009, on stand G038, Hall 6. At both shows, visitors will be able to see live machining using WorkNC® Dental.

SESCOI has been developing and supplying CAM/CAD software for 20 years, and it has drawn on this expertise to produce a system dedicated to the needs of dental professionals. Working from STL and native dental CAD formats, WorkNC®DENTAL Labs is able to nest and orientate prosthetic implants, automatically insert support pins, apply automatic identification to the machining supports, and consider the shrinkage that takes place in the baking of high strength ceramic materials such as alumina and zirconia.

Machining wizards and customizable machining sequences automatically select tools and add toolpaths which have been specially designed to suit particular types of material, such as titanium and zirconia, and types of prosthesis, including copings and bridges. In particular, WorkNC®DENTAL Labs uses automatic 5-axis toolpaths which will enable shorter and more rigid tools to be used, and parts to be finished in one operation. The software's automatic collision avoidance technology considers the kinematics of the machine tool and automatically inserts extra flip movements to the cutter so it will reach every part of the workpiece. Highly accurate algorithms in the software ensure that each prosthesis is manufactured precisely and with a high quality surface finish. The automated toolpaths simplify the process and enable technicians unfamiliar with machining technology to produce the desired results.

The launch of WorkNC®DENTAL Labs in March is to be followed later in the year with the launch of WorkNC®DENTAL Expert. This advanced version will include 5-axis undercut machining and a module for the automatic machining of bars and implants.

By working closely with dental professionals and drawing on its experience, SESCOI has been able to produce a CAM system which is tailored exactly to the successful and accurate machining of dental implants. As with all its products, ease of use is a major factor, and WorkNC®DENTAL Labs has been designed so that technicians can operate it with the minimum of training and without needing to be

experts in machining technology.

 [Click here to return to Contents](#)

Synopsys DesignWare IP for PCI Express First IP to Pass Agilent Technologies' Inline Error Injection Testing

5 March 2009

Synopsys, Inc. announced its DesignWare® controller and PHY IP for PCI Express 2.0 and 1.1 has passed Agilent Technologies' inline error injection testing utilizing Agilent's PCI Express Jammer tool. This unique tool injects disruptive test scenarios into a real-world hardware environment to increase test coverage. As the first intellectual property (IP) provider to pass these tests, Synopsys further demonstrates the reliability and robustness of its [DesignWare IP](#) for PCI Express, even under harsh system environments. Passing these tests gives designers confidence that the IP is of high quality, proven interoperable, and can be integrated into their designs with less risk and improved time to market. Synopsys will be demonstrating the DesignWare IP for PCI Express with Agilent's Jammer tool at the PCI-SIG Developers Conference in Frankfurt, Germany from March 9-10, 2009.

Agilent's PCI Express Jammer inline error injection tool sits between two PCI Express devices and modifies data streams in real-time, creating disruptive test scenarios. The Jammer tool generates test scenarios for almost all conceivable error recovery test cases, including correctable, uncorrectable non-fatal and uncorrectable fatal errors. Synopsys has supplemented its already extensive PCI Express IP verification process with Agilent's Jammer tool to further test error recovery and error handling in real-world situations. This additional verification enhances the quality and interoperability of the DesignWare IP for PCI Express with other PCI Express devices.

"Agilent is pleased to see that our newly introduced PCI Express Jammer test tool is providing our partners, and in turn their customers with so much immediate value," said Siegfried Gross, vice president and general manager of Agilent's Digital Test Division. "By utilizing Agilent's robust in-line error injection tool, Synopsys enables designers to integrate their leading DesignWare IP for PCI Express into high performance designs with less risk and improved interoperability while expediting their time to market."

Synopsys offers a complete IP solution consisting of a suite of digital controllers for endpoint, root port, switch port and dual mode, PHY IP, and verification IP that are all compliant to the PCI Express 2.0, 1.1 and PIPE specifications. Synopsys is an active member of PCI-SIG and has more than 15 years of experience delivering silicon-proven PCI, PCI-X and PCI Express solutions resulting in hundreds of customer designs in volume production. Synopsys continues to take advantage of the latest verification techniques from industry leaders such as Agilent to further differentiate the quality of its IP. This commitment to high quality reduces the risk for designers integrating PCI Express into their high performance applications.

"Agilent and Synopsys have a long history of working together to help drive the adoption of PCI Express into the market. We first worked together to create the Protocol Test Card using the DesignWare IP for PCI Express, which is one of the 'gold tests' required for compliance at the PCI-SIG workshops," said John Koeter, vice president of marketing for the Solutions Group at Synopsys. "By extending this relationship with Agilent to be the first IP vendor to pass the Jammer inline error injection testing, Synopsys is providing designers with a high-quality IP solution that they can have confidence in."

 [Click here to return to Contents](#)

Visionary Simulation Tool for Cutting-Edge Technology of the Future - ITI Simulation Solutions Are Amongst CAE Highlights at the Hannover Trade Fair

3 March 2009

As in the past 16 years CAE specialist ITI GmbH will be at the Hannover trade show from April, 20th – 24th 2009 in Hannover. Besides numerous enhancements of the new SimulationX release ITI gives an insight into latest developments in the field of thermal systems. Another focus especially in the field of Hardware-in-the-Loop will be on the presentation of a flexible complete computer solution for rapid prototyping. Increases in turnover and new customer projects characterized the end of the last year as well as the beginning of the new ITI business year. Especially in the automotive industry but also in mechanical engineering, shipbuilding, and power generation demand for SimulationX to analyze and adjust systems from pre-development through to serial development grew enormously. In the course of this positive trend ITI went on expanding its international sales network; thanks to the new distribution partner Laduga Ltd., located in Moscow, SimulationX has also been available in the Eastern European countries Russia, Belarus, Kazakhstan and the Ukraine since January 2009.

One of the ITI highlights at this year's Hannover trade fair will be the exclusive preview of the SimulationX release. Particularly the field of multi-body mechanics will provide an enlarged Modelica support and numerous new features to simplify the simulation of complex technical systems and to accelerate analysis up to 25 per cent.

Apart from this, ITI will present further developments in the field of simulating thermal systems: To enable a more efficient modeling of thermo fluid technical systems within heat engineering, power engineering, cooling technology and drying technology, ITI works together with specialists of TLK-Thermo GmbH and the institute of thermodynamics of the University of Braunschweig on the integration of the established Modelica-libraries "TIL" and "TILMedia" in SimulationX. Therewith the user will be supported in the stationary and transient simulation e.g. of heat pumps, air conditions and cooling systems in a more comfortable way. Thanks to open interfaces, users will fully benefit from the specific options of modeling, analysis and simulation of both software tools. Further details about the new software release will be presented at the fair.

One of the features of ITI simulation solutions is their flexibility e.g. the executable and approved interfaces to leading dSPACE and Cosateq real-time platforms. Therewith, ITI belongs to the first suppliers of approved software interfaces that without difficulty facilitate the transfer to HiL-simulation in conjunction with electronic devices. As a result the model transfer is accelerated significantly and the effort for cost-intensive tests on prototypes is considerably minimized. Visitors can test the functionality of ITI HiL solutions on the basis of selected models themselves and discuss questions with experienced engineers directly at the ITI main stand.

"With our presence at the leading trade fair MDA and E-Motive we consciously commit ourselves to the trend of alternative drives. As an international leading supplier of high performance multi-domain simulation software for physical model-based development we have been dedicated to closely connecting different engineering disciplines from the very beginning. The more popular our knowledge and long-term experience in the field of mechanical and electrical drive technology as well as hydraulics and pneumatics are today in the field of integrated development of energy-efficient machines" explains Jens Schindler, Managing Director of ITI GmbH, the decision for participating in this year's Hannover

trade show.

At the Hannover trade fair 2009 ITI will be present in hall 25 with the main stand L16. Furthermore, at the E-Motive in hall 24, stand C15 visitors will be informed about ITI solutions in the field of hybrid and electric drives in vehicles and mobile machines.

About ITI

For more than 18 years ITI has been one of the internationally leading companies for the virtual system engineering. The software SimulationX is applied by engineers and scientists at more than 600 well-known companies such as Audi, BMW, Daimler, Volkswagen, Continental, Schaeffler, Siemens, Demag, Husky, Nikon, Mitsubishi and Liebherr. SimulationX is also widely used in academics and research world-wide. Main fields of application are power engineering, Power transmission, fluid power, mechanical engineering, power generation and automotive. Apart from this ITI supports its clients in the field of research and development of high-technology with engineering and consulting services. Further information is available on <http://www.iti.de>.

About SimulationX

SimulationX - The Driving Force in System Simulation determines the level of modeling, simulating and optimizing complex technical systems. The software models the interaction of components from a multitude of domains including their mutual interaction and feedback on one platform. This significantly distinguishes SimulationX from any other kind of CAE software (FEM, CFD, MBS). SimulationX is standard software for valuation of the interaction of all components of technical systems. It is the universal CAE tool for modeling, simulating and analyzing physical effects – with ready-to-use model libraries for 1D mechanics, 3D multi-body systems, power transmission, hydraulics, pneumatics, thermodynamics, electrics, electrical drives, magnetics as well as controls – post-processing included. SimulationX fully supports Modelica® language and offers a wide range of open, comprehensive CAx-interfaces.

 [Click here to return to Contents](#)

Financial News

ANSYS Reports Revenue and Earnings Growth for Fourth Quarter and 2008 Annual Results and Updates Outlook

26 February 2009

ANSYS, Inc. reported its fiscal fourth quarter and full year 2008 results.

“By staying true to our strategic vision, we validated that the fundamentals of the ANSYS business remain strong, even in the midst of the macro challenges. Our customers’ ability to innovate is essential to their future success, which in turn furthers the success of ANSYS. As a result, we continue to have a strong financial model that can drive profitable operations while ANSYS delivers on its promise to provide best in class engineering simulation,” commented ANSYS President & CEO Jim Cashman. “The fourth quarter presented us with a combination of both challenges and opportunities. ANSYS’ ability to deliver solid financial results was driven by our tight alignment with our customer’s research and product development priorities, our broad portfolio of product solutions, and solid execution by our global workforce and channel partners. While we continue to face the realities of ongoing pressure on customer capital spending and prolonged sales cycles, we are also cognizant of the need to focus on and

CIMdata PLM Industry Summary

invest in our top priorities – sales, technology innovation and the integration of Ansoft. During this past quarter, we made progress on a number of important fronts that we believe continue to position ANSYS for future long-term growth as we address the expanding needs of our diverse customer base.”

ANSYS' fourth quarter and full year 2008 financial results are presented below. The non-GAAP results exclude the income statement effects of stock-based compensation, purchase accounting for deferred revenue and acquisition-related amortization of intangible assets. Non-GAAP and GAAP results reflect:

- Total non-GAAP revenue of \$143.3 million in the fourth quarter of 2008 as compared to \$111.2 million in the fourth quarter of 2007; total non-GAAP revenue of \$493.0 million in 2008 as compared to \$387.2 million in 2007; total GAAP revenue of \$135.3 million in the fourth quarter of 2008 as compared to \$111.2 million in the fourth quarter of 2007; total GAAP revenue of \$478.3 million in 2008 as compared to \$385.3 million in 2007;
- A non-GAAP operating profit margin of 48.8% in the fourth quarter of 2008 as compared to 43.2% in the fourth quarter of 2007; a non-GAAP operating profit margin of 47.5% in 2008 as compared to 43.3% in 2007; a GAAP operating profit margin of 33.8% in the fourth quarter of 2008 as compared to 34.1% in the fourth quarter of 2007; a GAAP operating profit margin of 35.5% in 2008 as compared to 32.9% in 2007;
- Non-GAAP net income (see *Note below) of \$46.6 million in the fourth quarter of 2008 as compared to \$36.0 million in the fourth quarter of 2007; non-GAAP net income of \$152.4 million in 2008 as compared to \$109.0 million in 2007; GAAP net income of \$31.9 million in the fourth quarter of 2008 as compared to GAAP net income of \$29.3 million in the fourth quarter of 2007; GAAP net income of \$111.7 million in 2008 as compared to GAAP net income of \$82.4 million in 2007; and
- Non-GAAP diluted earnings per share (see *Note below) of \$0.50 in the fourth quarter of 2008 as compared to \$0.44 in the fourth quarter of 2007; non-GAAP diluted earnings per share of \$1.76 in 2008 as compared to \$1.34 in 2007; GAAP diluted earnings per share of \$0.34 in the fourth quarter of 2008 as compared to GAAP diluted earnings per share of \$0.36 in the fourth quarter of 2007; GAAP diluted earnings per share of \$1.29 in 2008 as compared to GAAP diluted earnings per share of \$1.02 in 2007.

* Note: The GAAP and non-GAAP net income and earnings per share data reflected above include approximately \$2.0 million, or \$0.02 per share, in tax benefits during the fourth quarter of 2008 related to U.S. research and development activities that occurred during the first nine months of 2008. These amounts were recorded in the fourth quarter when the U.S. government approved the related tax credits retroactive to January 1, 2008. The GAAP and non-GAAP net income and earnings per share data for 2007 include approximately \$3 million, or \$0.04 per share, in tax benefits during the fourth quarter of 2007, primarily related to (1) reductions in the Company's accrual related to uncertain tax positions associated with the filing of voluntary disclosure agreements in various state taxing jurisdictions, (2) reductions in the Company's U.S. net deferred tax liabilities associated with the merger of two U.S. legal entities, (3) a favorable adjustment to the Company's previous estimate for taxes owed in a foreign jurisdiction as a result of the completion of the related tax filing and (4) reductions in certain deferred tax liabilities in foreign jurisdictions related to prospective income tax rate changes adopted by the foreign jurisdiction.

The Company's GAAP results reflect stock-based compensation charges of approximately \$3.1 million (\$2.0 million after tax) or \$0.02 diluted earnings per share for the fourth quarter of 2008 and approximately \$11.8 million (\$8.9 million after tax) or \$0.10 diluted earnings per share for 2008.

The non-GAAP financial results highlighted above, and the non-GAAP financial outlook for 2009

CIMdata PLM Industry Summary

discussed below, represent non-GAAP financial measures. A reconciliation of these measures to the appropriate GAAP measures, for the three months and twelve months ended December 31, 2008 and 2007, and for the 2009 financial outlook, is included in the condensed financial information included in this release.

Cashman continued, "Our on-going challenge will be to respond to the current market conditions without sacrificing long-term opportunity. Having demonstrated our ability to succeed, we believe our solid fourth quarter and fiscal year 2008 results continue to reflect ANSYS' strength in the marketplace and is testimony to the fact that our engineering solutions remain a high priority investment within our expanding customer base. Throughout 2008, we managed our spending, while at the same time, investing in important future growth opportunities such as the Ansoft acquisition. We also continued to focus on strengthening the breadth and depth of our solutions and extending our technology leadership. Throughout 2009 we will continue to take steps to streamline operations, manage discretionary costs and strengthen the effectiveness of our global operations."

Cashman concluded by saying, "Looking ahead, we are very excited about the upcoming releases of ANSYS 12.0 and Workbench 2.0 and the potential that these products have for our business. In every economic cycle that we have experienced, there are new opportunities that are created. We believe that our efforts in 2008 have positioned us with a vast array of new and improved technologies that will position us to take advantage of those new opportunities and to drive new business and increase the adoption rates of ANSYS solutions. During these challenging times, we will continue to work with our customers to help them meet or exceed their goals of reducing the number of design iterations, shortening the design cycle, lowering costs, improving product quality and expanding market share."

Management's Remaining 2009 Financial Outlook

The Company has updated its 2009 revenue and earnings per share guidance below. The earnings per share guidance is provided on both a GAAP basis and a non-GAAP basis. Non-GAAP diluted earnings per share excludes purchase accounting adjustments to deferred revenue, as well as charges for stock-based compensation and acquisition-related amortization of intangible assets.

First Quarter 2009 Guidance

The Company currently expects the following for the quarter ending March 31, 2009:

GAAP revenue in the range of	\$117.0 - \$125.0 million
Non-GAAP revenue in the range of	\$122.0 - \$130.0 million
GAAP diluted earnings per share of	\$0.17- \$0.25
Non-GAAP diluted earnings per share of	\$0.33- \$0.39

Fiscal Year 2009 Guidance

The Company currently expects the following for the fiscal year ending December 31, 2009:

GAAP revenue in the range of	\$522.0 - \$582.0 million
Non-GAAP revenue in the range of	\$530.0 - \$590.0 million
GAAP diluted earnings per share of	\$1.01- \$1.36
Non-GAAP diluted earnings per share of	\$1.54- \$1.85

These statements are forward-looking and actual results may differ materially. ANSYS is unable to

CIMdata PLM Industry Summary

predict the likely duration and severity of the current disruption in the domestic and global economies. Should these economic conditions continue to deteriorate further, it could result in ANSYS not meeting the guidance provided above and ANSYS' operating results and financial performance could be adversely affected. Non-GAAP diluted earnings per share is a supplemental financial measure and should not be considered as a substitute for, or superior to, diluted earnings per share determined in accordance with GAAP.

Conference Call

ANSYS will hold a conference call at 10:30 a.m. Eastern Time on February 26, 2009 to discuss fourth quarter results. The call will be recorded and a replay will be available approximately two hours after the call ends. The replay will be available for one week by dialing 888-203-1112 (US & Canada) or 719-457-0820 (Int'l) and entering the passcode 1694730. The archived web cast can be accessed, along with other financial information, on ANSYS' website at <http://www.ansys.com/corporate/investors.asp>.

Use of Non-GAAP Measures

The Company provides non-GAAP revenue, non-GAAP operating income, non-GAAP operating profit margin, non-GAAP net income and non-GAAP diluted earnings per share as supplemental measures to GAAP regarding the Company's operational performance. These financial measures exclude the impact of certain items and, therefore, have not been calculated in accordance with GAAP. A detailed explanation of each of the adjustments to such financial measures is described below. This press release also contains a reconciliation of each of these non-GAAP financial measures to its most comparable GAAP financial measure.

Management uses non-GAAP financial measures (a) to evaluate the Company's historical and prospective financial performance as well as its performance relative to its competitors, (b) to set internal sales targets and spending budgets, (c) to allocate resources, (d) to measure operational profitability and the accuracy of forecasting, (e) to assess financial discipline over operational expenditures and (f) as an important factor in determining variable compensation for management and its employees. In addition, many financial analysts that follow our Company focus on and publish both historical results and future projections based on non-GAAP financial measures. We believe that it is in the best interest of our investors to provide this information to analysts so that they accurately report the non-GAAP financial information. Moreover, investors have historically requested and the Company has historically reported these non-GAAP financial measures as a means of providing consistent and comparable information with past reports of financial results.

While management believes that these non-GAAP financial measures provide useful supplemental information to investors, there are limitations associated with the use of these non-GAAP financial measures. These non-GAAP financial measures are not prepared in accordance with GAAP, are not reported by all of the Company's competitors and may not be directly comparable to similarly titled measures of the Company's competitors due to potential differences in the exact method of calculation. The Company compensates for these limitations by using these non-GAAP financial measures as supplements to GAAP financial measures and by reviewing the reconciliations of the non-GAAP financial measures to their most comparable GAAP financial measures.

The adjustments to these non-GAAP financial measures, and the basis for such adjustments, are outlined below:

Purchase accounting for deferred revenue. As announced on July 31, 2008, ANSYS acquired Ansoft Corporation. In accordance with the fair value provisions of EITF 01-3, "Accounting in a Business

CIMdata PLM Industry Summary

Combination for Deferred Revenue of an Acquiree," acquired deferred revenue of approximately \$7.5 million was recorded on the opening balance sheet, which was approximately \$23.5 million lower than the historical carrying value. Although this purchase accounting requirement has no impact on the Company's business or cash flow, it adversely impacts the Company's reported GAAP software license revenue primarily for the first twelve months post-acquisition. In order to provide investors with financial information that facilitates comparison of both historical and future results, the Company has provided non-GAAP financial measures which exclude the impact of the purchase accounting adjustment. The Company believes that this non-GAAP financial adjustment is useful to investors because it allows investors to (a) evaluate the effectiveness of the methodology and information used by management in its financial and operational decision-making and (b) to compare past and future reports of financial results of the Company as the revenue reduction related to acquired deferred revenue will not recur when related annual lease licenses and software maintenance contracts are renewed in future periods.

Amortization of intangibles from acquisitions and its related tax impact. The Company incurs amortization of intangibles, included in its GAAP presentation of amortization of software and acquired technology, and amortization expense, related to various acquisitions it has made in recent years. Management excludes these expenses and their related tax impact for the purpose of calculating non-GAAP operating income, non-GAAP operating profit margin, non-GAAP net income and non-GAAP diluted earnings per share when it evaluates the continuing operational performance of the Company because these costs are fixed at the time of an acquisition, are then amortized over a period of several years after the acquisition and generally cannot be changed or influenced by management after the acquisition. Accordingly, management does not consider these expenses for purposes of evaluating the performance of the Company during the applicable time period after the acquisition, and it excludes such expenses when making decisions to allocate resources. The Company believes that these non-GAAP financial measures are useful to investors because they allow investors to (a) evaluate the effectiveness of the methodology and information used by management in its financial and operational decision-making and (b) compare past reports of financial results of the Company as the Company has historically reported these non-GAAP financial measures.

Stock-based compensation expense and its related tax impact. The Company incurs expense related to stock-based compensation included in its GAAP presentation of cost of software licenses, cost of maintenance and service, research and development expense and selling, general and administrative expense. Although stock-based compensation is an expense of the Company and viewed as a form of compensation, management excludes these expenses for the purpose of calculating non-GAAP operating income, non-GAAP operating profit margin, non-GAAP net income and non-GAAP diluted earnings per share when it evaluates the continuing operational performance of the Company. Specifically, the Company excludes stock-based compensation during its annual budgeting process and its quarterly and annual assessments of the Company's and management's performance. The annual budgeting process is the primary mechanism whereby the Company allocates resources to various initiatives and operational requirements. Additionally, the annual review by the board of directors during which it compares the Company's historical business model and profitability as it relates to the planned business model and profitability for the forthcoming year excludes the impact of stock-based compensation. In evaluating the performance of senior management and department managers, charges related to stock-based compensation are excluded from expenditure and profitability results. In fact, the Company records stock-based compensation expense into a stand-alone cost center for which no single operational manager is responsible or accountable. In this way, management is able to review on a period-to-period

CIMdata PLM Industry Summary

basis each manager's performance and assess financial discipline over operational expenditures without the effect of stock-based compensation. The Company believes that the non-GAAP financial measures are useful to investors because they allow investors to (a) evaluate the Company's operating results and the effectiveness of the methodology used by management to review the Company's operating results, and (b) review historical comparability in its financial reporting, as well as comparability with competitors' operating results.

Non-GAAP financial measures are not in accordance with, or an alternative for, generally accepted accounting principles in the United States. The Company's non-GAAP financial measures are not meant to be considered in isolation or as a substitute for comparable GAAP financial measures, and should be read only in conjunction with the Company's consolidated financial statements prepared in accordance with GAAP.

Pursuant to the requirements of Regulation G, the Company has provided a reconciliation of the non-GAAP financial measures to the most directly comparable GAAP financial measures as listed below:

GAAP REPORTING MEASURE	NON-GAAP REPORTING MEASURE
Revenue	Non-GAAP Revenue
Operating Profit	Non-GAAP Operating Profit
Operating Profit Margin	Non-GAAP Operating Profit Margin
Net Income	Non-GAAP Net Income
Diluted Earnings Per Share	Non-GAAP Diluted Earnings Per Share

For the unabridged press release including financial tables please click [here](#).

 [Click here to return to Contents](#)

Oracle Sets the Date for its Third Quarter Fiscal Year 2009 Earnings Announcement

3 March 2009

Oracle Corporation announced that its third quarter fiscal year 2009 results will be released on Wednesday, March 18th, after the close of the market. The company will host a conference call and live web broadcast at 2:00 p.m. (PDT) / 5:00 p.m. (EDT) to discuss the financial results. A live web broadcast of the event will be available on the Oracle Investor Relations website at <http://www.oracle.com/investor>. Please hold down your control key while pressing refresh to ensure that the weblink is visible.

Supplemental Financial Tables

Supplemental financial materials regarding these results will be available on our Investor Relations website at: <http://www.oracle.com/investor>. To receive these supplemental financial tables and other Investor Relations alerts directly, please subscribe to Oracle's RSS feeds via the website RSS link.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Valor Concludes 2008 with Record Cash Flow from Operating Activities of \$5.5M

25 February 2009

Valor Computerized Systems Ltd. announced its financial results for the period ending December 31, 2008.

Revenues in the 2008 were \$40.4M, a decrease of 3.7% as compared with \$41.9M in 2007.

Operating income in 2008 was \$2.8M, not including issuance costs of cancelled IPO in amount of \$1.4M and restructuring expenses of \$1.7M, representing a growth of 12% in operating margin as compared with 2007.

Net income in 2008 was \$3.5M not including the issuance costs of cancelled IPO and restructuring expense, net of tax, representing a growth of 17% in net profit as compared with 2007.

Cash flow from operating activities in 2008 accumulated to \$5.5M, as compared with 4.6M in 2007.

Earnings per Share (diluted) in 2008 were \$0.04, as compared with \$0.14 in the parallel period of the previous year.

Revenues in the fourth quarter of 2008 were \$9.1M, a decrease of 14% as compared with \$10.6M in the fourth quarter of 2007.

Net profit was \$0.4M in the fourth quarter of 2008, excluding restructuring expenses, net of tax, as compared with a net profit of \$0.8M in the same period of the previous year.

Summary of Financial Data (in \$US thousands, unless otherwise noted):

	1-12 / 2008	1-12 / 2007	% Change	Q4 / 2008	Q4 / 2007	% Change
Product Sales	21,995	24,881	(11.6)%	4,357	6,055	(28.0)%
Maintenance Income	18,437	17,089	7.9%	4,712	4,507	4.5%
Total Revenues	40,432	41,970	(3.7)%	9,069	10,562	(14.1)%
Gross Profit	34,497	34,726	0%	7,762	8,813	(11.9)%
Issuance Costs of cancelled IPO	1,422	-	100%	-	-	-
Restructuring Expenses	1,710	-	100%	1,107	-	100%
EBITDA*	1,753	4,582	(61.7)%	(520)	1,801	(128.8)%
EBIT*	(342)	2,485	(113.7)%	(1,014)	1,225	(182.7)%
Net Profit*	746	2,975	(74.9)%	(587)	776	(175.6)%
EPS in US\$ (diluted)	0.04	0.14	(71.4)%	(0.03)	0.04	(175.0)%

CIMdata PLM Industry Summary

	1-12 / 2008	1-12 / 2007	% Change	Q4 / 2008	Q4 / 2007	% Change
Shareholder's Equity	43,442	44,908	(3.3)%	43,442	44,908	(3.3)%
Total Assets	54,872	56,792	(3.4)%	54,872	56,792	(3.4)%
Research & Development	11,194	13,248	(15.5)%	2,622	3,201	(18.1)%
Employees (Period End)	231	263	(12.2)%	231	263	(12.2)%

* Including issuance costs of cancelled IPO, and restructuring expenses totalling \$3.1 Million

Some of the following statements are forward-looking in nature, and actual results may differ materially:

“Valor concluded 2008 in a relatively good position, with a substantial cash flow from operating activities of \$5.5M,” said Dan Hoz, Valor’s CEO. “We all know these are challenging times for the electronics industry and the market as a whole, and yet the decrease in our revenues stems mainly from weakness in the fabrication market, in which we operate via Frontline - our joint venture with Orbotech. In our other market segments we actually demonstrated relative stability, and even some increase in market share thanks to our software solutions which assist electronics manufacturers in reducing their operating costs and are therefore in high demand during times like these.”

“We are also very pleased to see our maintenance contracts renewals and customer retention maintaining a stable trend, even in Japan and APAC, which seem to have been affected more severely by the economic conditions” said Hoz. “In addition, we are strengthening our business through the recent acquisition of PCB Matrix, as well as the appointment of a new EVP of Business and Strategy.”

“We are putting a lot of emphasis on our contribution in 2009” said Hoz. “In line with that approach we have made some necessary adjustments to our expenses during 2008, some of which resulted in restructuring expenses of \$1.7M and issuance costs of cancelled IPO totaling \$1.4M. Nevertheless, our cash position remains firm at \$30M, and our ability to sell our products has not been affected. It is important for us to continue supporting our customers, and we believe that we are fully capable of continuing to do so throughout 2009 as well.”

The complete financial report can be downloaded from the Investor Relations section on the Valor corporate website: www.valor.com

 [Click here to return to Contents](#)

Implementation Investments

Advanced Lithium Power Selects Dyadem for Quality Lifecycle Management of its Clean Technology Solutions

3 March 2009

Dyadem and Advanced Lithium Power (ALP) announced that ALP's automotive Energy Storage Systems will be designed and production tested using Dyadem's Stature Quality Lifecycle Management (QLM) platform. Stature allows ALP to conduct its quality tests in a collaborative workspace and to

CIMdata PLM Industry Summary

proactively improve designs based on lessons learned. This ensures that defects that could hamper production and performance are designed out during the development process.

Advanced Lithium Power is a provider of innovative Lithium Ion Energy Storage Systems for the coming generation of low-emissions automobiles. The world's automobile manufacturers have chosen Lithium Ion battery packs to power new hybrid electric and plug-in hybrid electric vehicles. ALP's proprietary technology for cell-balancing, control, and thermal management allows for battery packs with unprecedented energy, safety, and durability.

[Dyadem](#) offers Quality Lifecycle Management and Risk Lifecycle Management solutions, helping discrete and process manufacturers manage quality and risk in their processes. Stature QLM is a Web-based platform, with modular applications that allow discrete manufacturers to fill the voids left from traditional Product Lifecycle Management (PLM) applications. Many of today's PLM systems fail when it comes to ensuring product and process quality. Most companies have rudimentary systems in place that do not automate quality controls and do not unify all facets of the organization or offer visibility into errors found post-production.

As a supplier to the automotive industry, ALP views safety and quality as the lifeblood of the company. [ALP](#) recognized that quality lifecycle management software like Dyadem's Stature platform would not only help it maintain high safety and quality standards, but also its competitive edge.

"In our industry, product safety and quality are absolutely paramount," said Lorne Gettel, ALP's President & CEO. "We have the opportunity to get it right from the start and a solution like Dyadem's Stature will ensure that safety and quality are an integral part of all our products. Stature will allow us to take advantage of information learned during initial design and subsequent production to continually design better products to meet the needs of our customers."

"Advanced Lithium Power is approaching production the way every discrete manufacturer should -- managing safety and quality throughout the lifecycle. Finding errors at the beginning of production is exponentially cheaper than trying to correct mistakes once a product is off the line," said Kevin North, President and CEO, Dyadem. "Our Stature QLM platform can be used by large global manufacturing organizations in the Fortune 500, or by smaller organizations using our modules to attain specific quality performance metrics. Everything is configurable based on a company's ultimate goals and requirements."

 [Click here to return to Contents](#)

AIRBUS Purchases the Site License of SAMCEF FEA Software for Structure Analysis

26 February 2009

Scope:

AIRBUS deploys the generic and multipurpose European FEA software package SAMCEF on all AIRBUS sites. The solution will be used for linear static, linear buckling and non-linear metallic and composite structural analysis.

This decision to purchase a site license of the FEA package edited by SAMTECH follows the recent deployment of ISAMI Analyst, the Stress Analysis CAE environment at the heart of new and global AIRBUS design and engineering strategy.

ISAMI is part the global strategy of the European Aircraft Manufacturer to harmonize its CAE

CIMdata PLM Industry Summary

infrastructure. It will be used for the first time for the structural sizing of the new AIRBUS A350 XWB aircraft. ISAMI is another technological joint venture between AIRBUS and the SAMTECH Group.

A word from Eric Carnoy, CEO:

Our relationship with AIRBUS is extremely valuable to us. It is also very characteristic of how we like to work with our customers: as partners. The recent developments come as a great reward to our values and ambitions: facing extreme challenges, working hard, meeting tight deadlines, completing ambitious projects, and in all aspects, deliver.

To achieve this, we rely on the high profiles of all the members of the SAMTECH family, throughout our worldwide offices. We are a global company providing global services at locally.

We can be fashionable and say SAMTECH, the “Global” company... Yes, we do! Through our offices in the UK, France, Germany, Spain, and in China we wish to strengthen further our relationship to AIRBUS and increase our market share in the Aeronautical market.

Facts:

The collaboration between SAMTECH and AIRBUS started with SNIAS and Aerospatiale in 1986 when the company was created.

SAMCEF has been used as a national tool for AIRBUS France ever since. SAMTECH services have grown from a local consulting state to a collection of full scale transnational services in virtual testing, simulation, optimization and tool and process integration and software development.

•90's: SAMTECH modules are integrated into the fatigue analysis tool Safe and Application Composite.

•2004: AIRBUS asks SAMTECH to take part in a strategic task: the harmonization of its methods and tools.

•2005: SAMTECH delivers the first version of COMBOX, the preliminary design optimization tool for the A350 composite wing boxes. It will later be extended to fuselage design and all lifting surfaces.

•2006: AIRBUS gives SAMTECH the mission to design a CAE platform where it will integrate its harmonized tools and methods. CAESAM by SAMTECH and ISAMI by AIRBUS are born.

•2007: SAMCEF is voted the preferred transnational solution for Composite FEA. AIRBUS and SAMTECH sign the Master Agreement Contract (MAC). SAMTECH becomes officially a “referenced supplier” to AIRBUS Extended Enterprise.

•2008: SAMCEF is deployed on all AIRBUS sites.

Today, SAMCEF is the preferred transnational solution for Composite FEA.

BOSS quattro powers COMBOX the global pre-sizing tool for the A350.

ISAMI Analyst is powered by CAESAM, the tool integrator platform designed by SAMTECH. The FEA engine of ISAMI is SAMCEF.

SAMTECH offers Expertise in Computer Aided Engineering. SAMTECH is a software editor and a CAE services provider. The Group employs 240 staffs in 11 countries. Our company is certified to the ISO9001:2000 quality standard.

Key products include SAMCEF for generic FEA simulation, BOSS quattro for multidisciplinary optimization and task management, the Professional Solutions for Wind Turbines (S4WT), for Rotor

CIMdata PLM Industry Summary

Dynamics (S4R) and for Machining Simulation (S4M), and the open architecture framework CAESAM for CAE integration.

Key services include simulation methodology and best practice, specific software development and maintenance, CATIA integration ([SAMTECH](#) is a CAA partner of Dassault Systemes).

 [Click here to return to Contents](#)

Autodesk Names ADEPT Airmotive as Inventor of the Year for 2008

3 March 2009

Autodesk has named [ADEPT Airmotive](#), a South Africa-based manufacturer of general aviation engines for the light aircraft market, the Autodesk Inventor of the Year for 2008.

ADEPT relied on Autodesk Inventor software--the foundation of the Autodesk solution for Digital Prototyping --to develop the 320T, a 320-horsepower general aviation engine with a compact design that offers low vibration levels and high structural integrity. The 350-pound engine is more than 130 pounds lighter than a traditional piston engine of comparable horsepower, allowing the 320T to reap fuel savings of about 30 percent and decrease environmental impact.

Members of the [Autodesk](#) manufacturing community voted for the 2008 Inventor of the Year on the Autodesk community web site. Named Inventor of the Month for March 2008, ADEPT won the competition in a landslide, receiving nearly two-thirds of the votes cast.

"The fact that our peers voted us into the winning position makes the award even more gratifying," said Richard Schulz, managing director of ADEPT.

"We're thrilled to demonstrate that South African engineering is world-class as part of the global exposure that accompanies this prestigious award."

Digital Prototyping Powers Engine Design

Inventor software's Digital Prototyping capabilities helped ADEPT produce accurate 3D models of the 320T before anything was actually built, reducing the number of physical prototypes that needed to be constructed. Processes that once took hours--such as changing the wall thickness of an engine component--were completed almost instantaneously with Inventor software. As a result, engineers were able to spend less time constructing geometric models and more time creating innovative designs, and then simulating the performance of the designs under real-world conditions.

"ADEPT distinguished itself from a very accomplished field of nominees in 2008," said Robert "Buzz" Kross, senior vice president, Manufacturing Industry Group at Autodesk. "ADEPT earned the praise of the manufacturing community for its groundbreaking engine, and we are pleased with the role that Digital Prototyping was able to play in developing the innovative 320T."

About the Autodesk Inventor of the Month Program

Each month, Autodesk selects an Inventor of the Month from the more than 800,000 users of Autodesk Inventor software, the foundation for Digital Prototyping. Winners are chosen for engineering excellence and groundbreaking innovation. For more information about Autodesk Inventor of the Month, contact us at IOM@autodesk.com.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Cambridge Silicon Radio Limited Successfully Deploys Calibre DFM Solutions to Help Drive Rapid Process Migration

3 March 2009

[Mentor Graphics Corporation](#) announced that Cambridge Silicon Radio Limited ('CSR'), a leading global provider of personal wireless technology with capabilities including Bluetooth, FM, GPS and Wi-Fi (IEEE802.11 a,b,g,n), has received working 65nm silicon using their new nanometer design flow, which incorporates advanced Design-for-Manufacturing (DFM) methods using the Calibre® DFM platform. Applying the full range of Calibre DFM solutions to its latest product, CSR was able to successfully tape-out at 65nm. CSR plans to use the same DFM solutions to move to even more advanced RFCMOS processes nodes.

“CSR is moving to the most advanced process nodes at a very rapid pace, so we’re employing sophisticated DFM practices to ensure our designs are more robust over the process window, and to eliminate manufacturing surprises late in the development cycle,” said Chris Ladas, an Executive Director of parent company CSR plc and Senior Vice President of Operations at CSR. “We’re extremely pleased with the results we achieved on our most recent RFCMOS 65nm design, which employed a full range of DFM methods including Calibre tools.”

CSR is adopting the complete Calibre DFM solution, which includes litho process checking with the Calibre LFD™ tool, critical area analysis (CAA) with Calibre YieldAnalyzer, CMP analysis and intelligent metal fill with Calibre CMPAnalyzer and Calibre YieldEnhancer, and critical feature analysis (CFA) using Calibre nmDRC with Equation-based DRC. All of these products are supported by design kits from TSMC, CSR’s foundry of choice. By using these tools to identify areas of the physical design that are sensitive to manufacturing process variations, and then making changes to remove these sensitivities, CSR is able to improve the robustness of their designs across the process window. A more robust design helps ensure first time working silicon, minimizes the potential for manufacturing surprises, and enables a faster ramp to volume production.

“We worked extensively with Mentor to define a collaborative roadmap for the introduction of a DFM methodology and support tooling to meet CSR’s specific objectives,” said Mark Redford, Vice President of Advanced Process Technology Development at CSR. “This is a strategic initiative for us because we see DFM as a competitive advantage. It’s a way for us to get more advanced, higher performance products to market more quickly and with no manufacturing hitches late in the product development cycle. To do this effectively, you need a DFM-aware design flow that integrates accurate information about the target manufacturing process.”

“Consistent with the TSMC DFM Compliance Initiative, the Calibre DFM platform provides an efficient way to incorporate the valuable TSMC data into a customer’s physical design flow which is an integral part of our Open Innovation Platform™, helping designers to innovate and achieve silicon success,” said S.T. Juang, Senior Director of Design Infrastructure Marketing at TSMC. “TSMC is confident that our DFM compliant program, supported by EDA tools, will continue to show increasing value to key fabless partners like CSR.”

“We’ve worked closely with CSR and TSMC to realize our mutual vision of how engineers can use DFM to design and manufacture more competitive IC products,” said Joseph Sawicki, Vice President and General Manager for the Design-to-Silicon division at Mentor Graphics. “We are pleased with the first time working Silicon obtained by CSR at the 65nm process node. It is a clear demonstration of the value proposition of the Calibre DFM platform.”

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Chalco Shandong Adopts PTC® Pro/ENGINEER® To Accelerate Design And Production Of Solid-Liquid Separation Equipment

3 March 2009

PTC® announced that Aluminum Corporation of China Limited (CHALCO) Shandong Branch has adopted PTC® Pro/ENGINEER® to speed up design and production of its solid-liquid separation equipment. Pro/ENGINEER, PTC's integrated 3D parametric CAD/CAM/CAE software, allows engineers and designers to intuitively model detailed and accurate digital product definitions.

CHALCO Shandong had been using 2D CAD as its main design tool for many years. However, the traditional 2D CAD tool was beset with long standing problems resulting in low design quality, long product development cycle and inability to collaborate directly with the clients. With rising material prices, higher customer demands and fiercer competition bringing greater challenges, 2D CAD could no longer meet the design requirements of CHALCO Shandong and support its business growth. After thorough examination and analysis of available leading MCAD products, CHALCO Shandong decided to deploy Pro/ENGINEER.

"By implementing Pro/ENGINEER, we have improved the efficiency of designing solid-liquid separation equipment by 200%. Additionally, CHALCO Shandong has established a complete product development process for the company's future development," said Di Quanyue, director of technology department, Hengcheng Mechanical Factory, CHALCO Shandong. "We have adopted Pro/ENGINEER product development software in the design process of our new 100m² rotary drum filter machine. We also created a digital model, which has significantly reduced design errors and enabled the reuse of parts. By doing so, we were able to reduce costs and deal with complex curved surfaces. Richrising offered great technical support for the deployment of Pro/ENGINEER and ensured the significant improvement in our design efficiencies."

[CHALCO](#) purchased Pro/ENGINEER by PTC partner, Shandong Richrising Co., LTD. "Many SMB manufacturers in China face design challenges similar to CHALCO because they are still using 2D CAD," said Meng Qingxiang, project manager of Shandong Richrising Co., Ltd. "PTC offers a variety of Pro/ENGINEER packages that make its market leading parametric 3D CAD accessible to SMB clients that want to improve efficiency and increase the overall competitiveness of their products."

"PTC's powerful Pro/ENGINEER, featuring easy-to-use 3D design, analysis, visibility and automation capabilities, will greatly improve production efficiencies, allowing the design team of CHALCO Shandong to design faster, and at the same time ensure product quality," said John Condon, vice president of channel sales, [PTC](#) Asia Pacific. "PTC is committed to helping SMB customers like CHALCO Shandong to reduce overall cost and achieve product development goals by adopting Pro/ENGINEER solutions."

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CONTACT Wins Major Federal Ministry of Transport Tender

6 March 2009

CONTACT Software GmbH has been awarded a tender worth millions for software and services by the Federal Waterways and Shipping Administration (WSV). The contract was awarded to supplement

CIMdata PLM Industry Summary

CONTACT's PLM application of a Digital Technical Document Handling (WSV project DVtU) solution already installed across some 30% of the administration's sites nationwide. This will enable all branches of the administration, spread across the country, to access and modify hundreds of thousands of documents necessary for the upkeep and new development of waterways in a consistent and economic manner. Responsible for the implementation and daily upkeep is the IT Service Centre of the Ministry for Transport, Building and Urban Development based in Ilmenau. Since all administration branches are linked to the central archive in Ilmenau, they can for the first time access cross-departmental waterways data. The Digital Technical Document Handling project currently hosting some 1200 user and more than 2700 upon completion, already counts as a major IT application within the waterways administration and will be presented at this year's Federal Republic stand at CeBit in Hall 9, Stand B60, together with further model projects.

The Waterways and Shipping Administration WSV, a departmental subset of the Federal Ministry of Transport, Building and Urban Affairs, is responsible for unobstructed shipping traffic within Germany. As such, it is responsible for the maintenance, extension and new development of Federal Waterways and their associated facilities like locks, weirs, ship-lifts etc. Both planning of new facilities and day-to-day maintenance demand a close coordination not only between different departments, but also with external WSV contractors and includes the comprehensive documentation of technical drawings, static calculations, surveyor reports, approval and release procedures and many more. Modelled on this job definition, the CIM DATABASE-reliant DVtU solution consists of a PLM system to handle the digital facility data (centralized archive) and a second system supporting the generation and modification of technical data within individual admin locations.

Before going on-line, the DVtU-system-database was fed with some 300.000 digitized blueprints, continuously augmented by further facility documents and by new or modified data from ongoing projects. The central hub in Ilmenau serves as a WSV-wide knowledgebase and digital long-term archive for the life-span of all facility data and documentation. Via the admin-exclusive intranet, authorized staff can access and evaluate up-to-date documents. Interfaces with further key WSV databases, such as the Waterways Database or the digital Federal Waterways Map, further aid cross-departmental research on specific issues of individual facilities.

The location-specific software component enables the efficient handling and filing of current project and maintenance data. Thanks to CIM DATABASE's integration with MicroStation and MS-Office applications, CAD and Office documents may easily be generated and utilized within individual workspaces. Furthermore, workflows and prescribed administration compliance procedures safeguard the adherence to public authority stipulations concerning authorization, assessment and approval procedures.

In the context of the construction of the new Nord-Ostsee canal lock chambers, the Waterways and Shipping Administration Brunsbüttel has further planned a pilot project, integrating external contractors. In conjunction with building operations, third-party data submission and evaluation is to be executed within the local DVtU unit, whereby CIM DATABASE's rights management ensures that non-authorized data remains protected.

 [Click here to return to Contents](#)

Design Department Saves Days of Work by Using a Virtual Night Shift

3 March 2009

CIMdata PLM Industry Summary

Theorem's TPM process manager reduces CAD translation times from 2 days to 4 hours, and personnel requirement from 5 to 2.

The ability of Theorem Solutions TPM process management tool to radically reduce both the cost and time required for CAD translations in the automotive industry has been conclusively demonstrated at Cosma International, a Worldwide supplier of automotive components. By automating its data exchange and data translation processes with TPM, Cosma has reduced the number of personnel required for the process from 5 to 2. Moreover, the time for translation of large batches of files (which previously took 2-days) has now been reduced to between four and six hours.

A division of Canadian automotive component manufacturer, Magna International, Cosma specialises in chassis stampings, bumper beams, and metal body panels primarily for light trucks and sport utility vehicles (SUVs). The company's customers include many of the world's largest automakers, including BMW, Chrysler, Ford, General Motors, Honda, Toyota, and Volkswagen.

With a diverse base of global manufacturers as customers, Cosma has to handle product data in myriad of CAD formats, including NX (Unigraphics) and CATIA V4 and V5. What this means in practice is that when requests for product data come in from supply chain partners or external customers, the data co-coordinators at Cosma have to go into each individual CAD application to translate the data into the requested format, a tedious and time-consuming manual process.

“Historically, translations were done on the data co-coordinator’s own systems, so when they were doing translations, they were pretty useless otherwise,” said Dave Truchan, Director of Information Technology at Cosma.

In an effort to reduce the time required for these translations, Cosma decided to deploy Theorem Process Manager (TPM), a process management and automation tool from Theorem Solutions. TPM automates, manages, schedules and controls tasks or processes helping to eliminate manual intervention and monitoring. It helps companies maximise their investments in software and hardware resources by enabling batch intensive tasks to be undertaken during off-hours when computers are usually idle.

The TPM system at Cosma is tied to the company's PLM system and automates the data exchange and data translation processes. Before automating the process, Cosma had five people working on data translations within the company; today this has been reduced to two.

Aside from manpower savings, the company has also realised significant time savings over the previous manual process. “Time-wise TPM has been great,” says Truchan. “Our data co-coordinators now just batch out jobs, so it's really reduced translation time significantly, and the co-coordinators can work on different things while TPM is in the background translating.”

The TPM system at Cosma runs on a dedicated server. When requests come in, Cosma data co-coordinators simply ‘drag and drop’ files to add them to the job queue. The data is processed by TPM, and then the data co-coordinators are automatically notified when the jobs are completed. They, in turn, notify the person who requested the data. Currently the TPM server is processing translations 24 hours a day.

“The co-coordinators are now batching off 25, 50 or 100 files to the server, and then they are going about doing other things,” says Truchan. “I'd be reluctant to say it's a 100% improvement but it almost is; and our overtime is almost non-existent.

What used to be considered good to get a two-day turnaround, we're now doing in four to six hours. Our turnaround time now is phenomenal because the people are doing what they need to do all the time.

That's been the biggest benefit.”

Cosma has plans to expand the use of the TPM system in the future to process other time-intensive computing tasks, while freeing computing and manpower resources to accomplish other tasks.

“Currently we're running TPM on just one server, but we do know we can do this on multiple servers, 24- hours a day, if need be,” says Truchan. “We know all the bells and whistles are there; we just want to get it in flow first.”

The company is currently embarking on a new large engineering project. TPM will play a larger role in this project, helping process and generate JT files, not just STEP or IGES files. “When that comes about, we'll need to utilise people's workstations from 7 P.M. to 6 A.M. or whenever they are not here,” says Truchan. “We really look at TPM as a very large part of this new engineering project because being able to visualise the parts that engineering is sending out to the divisions, to the people who are actually making it, is so important to them.”

According to Patrick Shutter, system administrator, Cosma also has plans to deploy TPM to assist the analysis group with sharing product data with design collaboration partners within the company. “It would be a huge perk for our analysis group, because they share their data with so many groups that to have one common system would be a huge benefit and to have it batched would be awesome for them.”

Summing up the role of Theorem Solutions in the deployment of TPM at Cosma, Hai Hoang, the company's manager of Information Technology said that: “Theorem has been a great partner in this; they have bent over backwards and have done above-and-beyond the support of typical salespeople. Without them, I don't think we would have had the success with TPM.”

 [Click here to return to Contents](#)

Embedded CFD Helps Reduce Number of Thermal Prototypes from Up to 12 to 1

March 2009

Azonix used FloEFD Software from the Mentor Graphics Mechanical Analysis Division (formerly Flomerics) to reduce the number of thermal prototypes required from up to 12 to 1 on its new Terra embedded computer. “FloEFD computational fluid dynamics (CFD) software enables design engineers without a fluid analysis background to perform thermal simulation,” said James Young, Design Engineer for Azonix. “The result is that we got the design right the first time, only had to make one prototype, and avoided expensive design changes that typically occur in the late stages of the development process.”

Azonix is a division of Crane Co. and a leading provider of highly engineered computers and displays designed for extremely harsh environments. The Terra is a new embedded computer designed for use in the transportation industry that is, like other Azonix products, completely sealed from the elements and designed for use in very hot environments. “As with most of our products, we were limited to conduction and natural convection cooling,” Young said. “This presents a difficult challenge for modern electronics equipment.”

We opened the SolidWorks model in FloEFD and defined the heat dissipation sources, material properties, and the ambient temperature outside the enclosure at the product's design limit of 60°C. Then we defined the goals and performed a thermal simulation. The software analyzed the CAD model, automatically identified fluid and solid regions and allowed the entire flow space to be defined and gridded without user interaction and without adding extra objects to the CAD model. The software took

CIMdata PLM Industry Summary

about five hours to generate simulation results. The results showed, as expected, that temperatures on the surfaces of key components exceeded the allowable limit of 90°C.

The conduction path from the heat dissipating components to the heat sink and heat sink geometry were the primary design parameters that were available to improve thermal performance. The cross-section of the heat spreader was increased and changed from aluminum to copper. Gap type thermal interface material was inserted at the interfaces between the components and the heat spreader. The thermal interface material was modeled as a contact resistance, reducing the number of cells, rather than conduction through material. These changes substantially reduced the surface temperatures on the dissipating components but not enough to meet the thermal requirements. Then we optimized the design of the heat sink. After about a half dozen different iterations, in each case changing the spacing and height of the fins, the heat sink was optimized and the internal component temperatures were minimized.

“The changes to the heat sink reduced the surface temperatures below the maximum allowable levels,” Young said. “The result was that we were able to complete the thermal design prior to building the first prototype. When the prototype was built and tested, the measurements were within 5% of the simulation predictions. As a result, this was the only thermal prototype that needed to be built. This is a good example of how the new generation of embedded CAD tools can save money and time by enabling design engineers to optimize the design from a thermal standpoint early in the design process.”

For more information about FloEFD, visit <http://www.mentor.com/mechanical>.

 [Click here to return to Contents](#)

Hamilton Sundstrand Selects PTC to Improve Compliance with S1000D Standards

2 March 2009

PTC® announced that Hamilton Sundstrand headquartered in Windsor Locks, Conn., a subsidiary of United Technologies Corporation, has selected Arbortext® to help ensure its technical publications are compliant with S1000D standards. Arbortext for S1000D is PTC’s product information delivery solution used for structured authoring, technical illustrations, publishing and viewing interactive electronic technical publications (IETP) in accordance with the Aerospace and Defense Specification 1000D. With the implementation of PTC’s solution for S1000D, Hamilton Sundstrand has expanded its use of the PTC® Product Development System (PDS). Hamilton Sundstrand has been a [PTC](#) customer since 1999.

S1000D is an international specification for creating, maintaining, and delivering technical publications within the civil and military Aerospace & Defense (A&D) industries. Arbortext for S1000D is a fully integrated, out-of-the-box solution that ensures rapid compliance with the specification, increases product information quality and accuracy. Through the use of Arbortext, Hamilton Sundstrand will be able to generate, manage and publish large volumes of product information used to support A&D equipment worldwide, while improving information security, maintaining development momentum and complying with S1000D. It also provides additional integrated software components that repurpose S1000D data modules to accommodate the rapid, accurate assembly of parts catalogs as well as viewing IETPs.

“Arbortext provides [Hamilton Sundstrand](#) with a scalable, advanced software solution from a single vendor,” said Timothy Loftus, Manager, Technical Publications, Hamilton Sundstrand. Ultimately, it allows us to accelerate the development process of our technical publications and deliver products to market faster.” Launch programs for Hamilton Sundstrand include a variety of systems on the Airbus A400M and A350XWB.

“S1000D is quickly becoming the dominant product documentation and technical illustration standard worldwide in A&D as it provides a prescriptive process for the exchange and delivery of structured product information throughout the supply chain regardless of geographic location,” said Peter Velikin, director of product and market strategy, PTC. “We are pleased to provide Hamilton Sundstrand with a single solution that helps ensure its S1000D standards are accounted for during the development of technical publications.”

 [Click here to return to Contents](#)

Leading Train Manufacturer, CAF, Partners with Exa to Optimize Aeroacoustic Performance of its Newest High-Speed Models

3 March 2009

Exa® Corporation, a global provider of simulation software for product engineering announced CAF (Construcciones y Auxiliar de Ferrocarriles) based in Beasain, Spain, has chosen Exa’s PowerFLOW software suite for engineering simulation and optimization, with a focus on aeroacoustic performance, for its new high speed train slated to for domestic railways in Spain.

Exa has been selected as a specialized software partner to analyze a particularly complex and critical domain, to help enhance the performance and functionality of CAF’s newest high-speed train. After extensive validation, PowerFLOW software was proven as the only viable tool capable of simulating and predicting aerodynamic noise within industrially acceptable accuracy requirements and turnaround time constraints. In addition to analysis of aerodynamic noise in the critical areas of the train, PowerFLOW will be used to simulate the train’s front nose, pantograph, internal cavities and bogies (chassis underbody). Exa is also engaged in helping CAF assess, analyze and virtually reduce the noise perceived far from the train (far field noise) to respect European regulations.

The Exa suite of engineering simulation products allow engineers to achieve results within time frames simply unreachable using traditional methodologies —allowing customers to benefits from drastic reduction in prototypes expenses as while bringing their products to market faster. “We are proud for being selected as strategic partner in this project,” remarked Loris Libero, Southern Europe Sales Director for Exa. “Exa’s expertise in aeroacoustics and train simulation is additionally reinforced by the trust we have been given by companies like CAF who, through our partnership, are driving state-of-the-art engineering simulation within this industry.”

Exa Corporation

Exa Corporation develops, markets, and supports a suite CAE and CFD simulation software tools including PowerFLOW, PowerCLAYR, PowerWRAPR, PowerVIZ, PowerSPECTRUMR, PowerCOOL and PowerTHERM along with professional engineering consulting services. Exa’s products and services enable engineers to create competitive designs, while shortening product design cycles, and speeding time-to-market. A partial customer list includes: AGCO, Audi, BMW, Chrysler, Ford, Hyundai, Kenworth, MAN, Nissan, Peterbilt, Renault, Scania, Toyota, Volkswagen, and Volvo Trucks.

Founded in 1991, the company is headquartered at 55 Network Drive, Burlington, MA, USA 01803.

Tel: 1.781.676.8500; Fax: 1.781.676.8599; Email: info@exa.com; URL: <http://www.exa.com>.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Mentor Graphics Eldo Simulator used by STMicroelectronics to Characterize 32nm Cell Libraries

5 March 2009

[Mentor Graphics Corporation](#) announced that STMicroelectronics, a global leader in developing and delivering semiconductor solutions across the spectrum of microelectronics applications, has used the Mentor Graphics Eldo® circuit simulator to characterize its first CMOS 32nm cell libraries. The companies are long-term partners in the domain of advanced circuit simulation techniques for digital and analog IP characterization. This cooperation was recently brought to even higher levels, to ensure the successful development of a characterization flow optimized for the leading-edge CMOS 32nm high-K metal gate low power ISDA (International Semiconductor Development Alliance) process.

“STMicroelectronics is a leader in delivering a complete CMOS 32nm design solution to our customers that optimizes design productivity for low power designs without compromising the performance, quality or the silicon correlation. To achieve this goal, we have built a reliable ecosystem with our long-term partner, Mentor. We worked together to develop a robust solution for the design and characterization of our libraries for our worldwide design teams,” said Gérard Mas, CMOS Libraries Group Director of the Technology Research and Development group at STMicroelectronics.

Because of low power design techniques, the variety of CAD tools to support and the complexity of the deep submicron devices, the number of simulations required to collect the data for a library characterization can be very large. In parallel, the accuracy required for each simulation requires the designer to use the most advanced MOSFET models (PSP) and the most accurate description of the parasitic networks. To maintain productivity, the complete simulation system must be optimized for that technology node. The Eldo simulator has been able to handle this dramatic increase in model complexity and accuracy requirements with runtimes at, or close to, those of previous design generations.

STMicroelectronics and Mentor also put together an intense collaboration program to make the entire characterization process, which requires effective load distribution and balancing on huge CPU farms, as smooth and robust as possible.

“Given the data volume, manual inspection is not an option. The entire characterization must be a ‘push-button’ automated process, even when each individual simulation is a challenge with these advanced technology nodes and associated models. We developed quite a sophisticated infrastructure to achieve this goal, and Mentor demonstrated the required reactivity, resources, and engineering commitment to let us reach the desired productivity level,” said Laurent Bergher, CMOS Standard Cell Libraries Group Manager at STMicroelectronics.

The available solution is now being used in production for both logic and analog libraries (including ADCs, DACs, PLLs, Oscillators, and others) where simulation accuracy and noise analysis are critical concerns. The close ST and Mentor collaboration also enabled the sophisticated ageing models developed by ST process reliability experts to be implemented in the Eldo simulator via the widely used Eldo UDRM (User Defined Reliability Modeling) API.

“The close cooperation between Mentor and STMicroelectronics continues to be very important to the strategies of both companies. ST is a world leader in Analog and Mixed Signal Design and our work together helped Mentor provide solutions in advanced areas such as the production-level environment for CMOS 32nm library characterization,” said Robert Hum, Vice President and General Manager of the Deep Sub Micron (DSM) division at Mentor Graphics.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Mentor Graphics Olympus P&R and Calibre Verification Platforms Qualified for 32nm IC Designs at STMicroelectronics

2 March 2009

[Mentor Graphics Corporation](#) announced that STMicroelectronics, a global leader in developing and delivering semiconductor solutions across the spectrum of microelectronics applications, has qualified the Mentor design-to-silicon platform for the physical implementation and verification of advanced IC products targeting the 32nm process node. The 32nm design flow includes the Olympus™-SoC multi-corner multi-mode place-and-route system, the sign-off standard Calibre® verification platform with comprehensive DFM solutions addressing manufacturing variability, and the Eldo® SPICE simulator for library cell characterization.

“STMicroelectronics has selected Mentor’s design-to-silicon platform for its advanced capabilities that specifically target the challenges of 32nm and have a direct impact on our business. These challenges include the enormous complexity of new designs, the need for concurrent timing and power closure to reduce time-to-tapeout, and the ability to make designs resilient to variations in manufacturing,” said Philippe Magarshack, STMicroelectronics Technology R&D Group Vice President and Central CAD and Design Solutions General Manager. “Based on our experience with complex SoC implementations at 65/55nm and 45nm, the large capacity of Olympus allows us to handle large designs in flat mode, and to close many modes and corners simultaneously. At 32nm, Olympus’ close integration with Calibre for verification will allow us to quickly close the ‘DFM-integrity loop’ on large designs.”

“We are very pleased with the results of our long-term partnership with STMicroelectronics, which has led to their decision to adopt the Mentor implementation and verification tools for 32nm,” said Joseph Sawicki, Vice President and General Manager of the Design-to-Silicon division at Mentor Graphics. “We have worked together to define the requirements and solutions for rapid design and verification of high-performance, low power 32nm ICs that ramp to volume production quickly and without surprises. The traction our implementation and verification solution is enjoying in the marketplace is a good indication that we have addressed customers’ most pressing concerns.”

Mentor’s Design Flow for 32nm

The Olympus-SoC implementation platform was architected from the ground up to address the key challenges of physical design at 32nm. It provides native concurrent multi-corner multi-mode optimization, DFM-aware routing, automation for all low power design methodologies, 100M+ gate capacity, full multithreading, and the industry’s only parallel timing engine to deliver efficient scaling on multicore, multiprocessor computing platforms.

The Calibre nm platform, with the Calibre nmDRC and Calibre LVS tools, has become the golden standard for verification of advanced ICs. Mentor’s comprehensive DFM solution is integrated with the Calibre platform and supports the highest performance designs at 32nm with better control of manufacturing variability for cell libraries as well as full-chip layouts. The Calibre DFM solution includes the Calibre LFD™ product, which provides accurate modeling of lithographic process and etch characteristics, and is the standard sign-off flow for litho hotspot and variability analysis for IP and full-chip applications. It is fully integrated with the Calibre nmDRC, Calibre LVS (Layout vs. Schematic) and Calibre xRC™ products, allowing critical device and interconnect characteristics to be extracted based on accurately modeled, “as-built” contour geometries. The resulting physical data can be plugged into Mentor’s Eldo high-performance SPICE simulator, the first tool available for the STMicroelectronics 32nm cell library characterization flow, to produce an accurate timing simulation of

how physical blocks will actually perform.

The Calibre DFM solution also includes the Calibre YieldAnalyzer and Calibre YieldEnhancer products for automated CAA analysis and fixing. The YieldEnhancer tool includes a SmartFill intelligent fill capability, which performs metal fills based on metal density and density gradients. The Calibre CMPAnalyzer tool enables CMP planarity analysis and fill enhancement based on comprehensive, foundry-specific thickness models. Together, these products comprehensively address the variability issues of manufacturing at 32nm by making the physical design flow more process-aware and robust, reducing yield surprises late in the development cycle.

 [Click here to return to Contents](#)

Patient-Specific Simulation to Improve Understanding of Cerebral Aneurysms

2 March 2009

ANSYS, Inc. announced that the @neurIST project has completed a major milestone toward its goal of helping clinicians understand and manage cerebral aneurysms. The project teamed with ANSYS to incorporate high-end engineering simulation, which is being increasingly used in the fields of biomedicine and healthcare.

The @neurIST project successfully demonstrated its underlying series of linked tools — called a “toolchain” — utilizing software from ANSYS, which automates complex tasks such as aneurysm modeling and simulation. The project is now moving toward developing patient-specific treatment for this devastating condition.

An aneurysm is the ballooning of a weakened artery wall (with cerebral aneurysm occurring in the brain), with the constant threat that it may burst, leading to uncontrolled bleeding and often death. Ultimately, the @neurIST project expects to provide individualized aneurysm rupture predictions. The toolchain is a critical part of the project’s infrastructure: It combines diverse, independent tools into an integrated suite, in which the output of one tool becomes the input for the next. The resulting automated workflow brings together multiple strands of patient data — including CT scans, X-rays, angiograms, and other routine test results — transforming them into 3-D representations that are the basis for dynamic simulations performed with ANSYS® software. The resulting information can be used in other @neurIST software systems by doctors, researchers and engineers at hospitals, universities and medical device companies to develop patient-specific treatments. Current medical solutions have significant rates of impairment and mortality, and so the innovative approach of @neurIST will enable medical teams to assess the threat of rupture versus the need for risky surgery. Project partners are now collecting and analyzing clinical data in expectation of developing best practices and, perhaps, identifying the underlying causes of the condition.

“There is a demonstrated need for the use of computer-based imaging and monitoring not just to diagnose disease, but also for patient-specific simulations to test alternative treatments,” said Jim Cashman, president and chief executive officer at ANSYS, Inc. “[@neurIST](#) is a comprehensive example of this. It fuses diagnostic, modeling and simulation data into a coherent representation of a patient's condition. ANSYS is at the foundation of the project because of our commitment to advancing the use of engineering simulation in new and innovative applications — things that previously were never imagined. The company has long served the biomedical industry with leading-edge technology that enables advances in solving unique and complex problems.”

“The aim of the @neurIST project is to transform the management of the condition by providing new

CIMdata PLM Industry Summary

insight, personalized risk assessment and methods for the design of improved medical devices and enhanced treatment protocols. This demonstration marks a major milestone within the project and is an important step on the way to personalized risk assessment, which could reduce unnecessary treatment by 50 percent or more, with resulting estimated savings of hundreds of millions of euros per annum. Beyond financial benefits, the personal — and family — consequences of aneurysm rupture are devastating,” said Alejandro Frangi of Barcelona’s Universitat Pompeu Fabra, which is coordinating the @neurIST project. “We have exposed the toolchain to detailed evaluation by critical groups of clinicians and surgeons, and the response has been overwhelmingly enthusiastic, with over 8 out of 10 professionals expecting to see the system enter clinical service.”

“Our experience with collaborative projects such as @neurIST has shown that combining expertise in the different disciplines has enabled us to achieve much more than any one of us could have done on our own. The modular approach that the team has adopted enables the rapid integration of the project’s different tools with software from ANSYS. This has enabled the results to be assessed quickly, all in order to understand their implications for the treatment of cerebral aneurysms,” said Ian Jones, head of technical services at ANSYS UK.

These results are utilized by other tools developed as part of the project, some of which are also based on ANSYS software: For example, the @neuENDO software suite can customize and optimize the design of medical devices such as stents and coils. “@neuENDO enables the designer to study the effects of the fluid dynamics and the stresses within the arteries as well as the relative benefits of alternative stents, using the integrated capability of software from ANSYS to simulate fluid structure interactions,” said Derek Sweeney, managing director of IDAC Ireland, an ANSYS channel partner responsible for the delivery of the @neuENDO module.

About @neurIST

The @neurIST project, which has the full title Integrated Biomedical Informatics for the Management of Cerebral Aneurysms, is an integrated project in the sixth framework programme of the European Commission (EC) and seeks to provide channels for the integration of all data sources on cerebral aneurysm. Of the project's seven workpackages, two are dedicated to the development of the four integrated exploitation suites of software that are destined for clinical and industrial use, two more are providing a secure IT infrastructure and one is collecting detailed clinical data. Work packages dedicated to management, dissemination and exploitation complete the project's structure, the results from which are designed to be readily transportable to other disease processes. The central strategy of @neurIST is the development of vertical integration across data structures and across length scales, but horizontal integration at every level of abstraction, from access to information sources, to complex information processing, knowledge representation, structuring and fusion, all of which will cement the collaboration between the disciplines. For more information, visit www.aneurist.org.

About IDAC

ANSYS channel partner IDAC is a computer-aided engineering consultancy firm headquartered in Ireland. The company has supported organizations involved in research and development by simulating design performance in an effort to produce better designs in less time. For more information, visit www.idacireland.com.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Shanghai Automotive Industry Corporation Standardizes on Siemens PLM Software's Teamcenter Technology

3 March 2009

[Siemens PLM Software](#) announced that Shanghai Automotive Industry Corporation (SAIC) Motor Corporation Ltd., one of the largest automobile enterprises in mainland China, standardized on [Teamcenter® software](#), Siemens PLM Software's digital lifecycle management solution, as its global collaboration platform. Teamcenter will help SAIC achieve greater productivity through a reduction in development costs and total time to market, as well as an overall enhancement in product quality.

SAIC initially experienced the benefits of Teamcenter, specifically in terms of overall productivity, through its implementation at the company's technical center. As a result SAIC decided to standardize on Teamcenter as its *de facto* PLM platform, which includes collaborative product data management (cPDM) and global [bill of material \(BOM\)](#) management. SAIC will deploy Teamcenter in all of its divisions in which the company has more than 50 percent ownership. As part of this decision SAIC will deploy Teamcenter at technical centers for its passenger and commercial vehicle business across four key markets – Nanjing and Shanghai, China; Korea and the United Kingdom.

“As a leading automobile company in China, SAIC is committed to improving the overall productivity of the vehicles we produce each year,” said Zhang Xinquan, CIO of SAIC Motor Corporation Ltd. “In this age of globalization, it is paramount for us to continuously enhance our research and development capabilities so as to bring SAIC's product quality to the next level. We are convinced that Teamcenter will enable us collaborate globally to reach that goal.”

“As a leading automobile enterprise, it is crucial for SAIC to place emphasis on enhancing its innovation and productivity in order to maintain a competitive edge at all times,” said Mr. Chuck Yuan, senior vice president and general manager, Greater China for Siemens PLM Software. “Teamcenter will help SAIC achieve these two vital business success elements by more efficiently connecting people and processes through a single source of product and process knowledge.”

Teamcenter will serve as SAIC's global engineering collaboration platform, providing a single source of product and process knowledge along with the ability to enable instant collaboration on a global basis, delivering greater productivity and teamwork. Teamcenter also provides a simplified, globally integrated usage based commercial BOM solution with tools to manage and release complex business BOMs and align design BOMs with business BOMs, to provide enhanced alignment between the virtual and physical domains.

 [Click here to return to Contents](#)

Siemens PLM Software-Sponsored Race Teams Off to a Roaring Start; Winning Races, Breaking Records

6 March 2009

[Siemens PLM Software](#) announced that Siemens PLM Software-sponsored racing teams – whose cars are developed with the help of Siemens PLM Software technology – are off to a strong start for the 2009 season, winning races and breaking records.

Siemens PLM Software-sponsored race team lead all three NASCAR® Series and National Hot Rod Association® (NHRA®) Pro Stock series standings. In the NASCAR Sprint Cup Series, Siemens PLM Software-sponsored race teams won the first three points races in 2009, setting multiple records along

CIMdata PLM Industry Summary

the way.

Joe Gibbs Racing's driver Kyle Busch won the NASCAR Sprint Cup Series at Las Vegas Motor Speedway. Busch became the first pole sitter to win a Cup race at Las Vegas, although due to league rules he had to start from the back of the pack after replacing a motor that blew during Friday's practice session. With this victory, Busch has now won a race in all three of NASCAR's series this season. He won the NASCAR Nationwide Series and NASCAR Camping World Trucks Series races at Auto Club Speedway in California, on Feb. 21, becoming the first driver in NASCAR history to win two major races series races in the same day. Busch is the current NASCAR Camping World Trucks Series points leader.

Roush Fenway Racing's driver Matt Kenseth started the season with back-to-back wins to become only the fifth driver in NASCAR Sprint Cup Series history to win the first two races of a season. Kenseth won the renowned season opener, the Daytona 500 at Daytona International Speedway, and the NASCAR Sprint Cup Series at California at Auto Club Speedway in California. Red Bull Racing Team's driver Brian Vickers, who won the pole at the NASCAR Sprint Cup Series at California, has finished in the top-ten the last two weeks.

Hendrick Motorsports' driver Jeff Gordon, a four-time Cup Champion, who finished sixth in Las Vegas and second in California, is the current NASCAR Sprint Cup Series points leader.

Roush Fenway Racing's driver Carl Edwards, who has finished in the top-five in the first three Nationwide Series races, is the current NASCAR Nationwide Series points leader. Edwards finish second to teammate Greg Biffle who the NASCAR Nationwide Series at Las Vegas Motor Speedway on Feb. 28.

In addition to the success in NASCAR, KB Racing, which races in the NHRA Pro Stock series, is speeding off the line with a win and new record at the season opener in Pomona, Calif. Jason Line, the 2006 NHRA Pro Stock world champion, won the Kragen O'Reilly NHRA Winternationals and teammate Greg Anderson, the three-time NHRA Pro Stock world champion, set a new elapsed time record of 6.528 seconds to become the current NHRA Pro Stock national record holder. Line is the current NHRA Pro Stock points leader and Anderson is in third place.

“Siemens PLM Software congratulates our sponsored race teams for the record breaking start and we wish the teams good luck in the 2009 season,” said Dave Shirk, executive vice president, Global Marketing, Siemens PLM Software. “Siemens PLM Software is proud of our relationship with the racing teams and along with our customers is pleased to know that our solutions help the teams succeed.”

A Tradition of Technology and Tracks

Siemens PLM Software has a long tradition of providing [NX™ software](#), Siemens' comprehensive digital product development solution, and [Teamcenter® software](#), Siemens' digital lifecycle management solution, through racing sponsorships. Hendrick Motorsports, winner of the 1995, 1996, 1997, 1998, 2001, 2006, 2007 and 2008 NASCAR Sprint Cup Championship; Joe Gibbs Racing, winner of the 2000, 2002 and 2005 NASCAR Sprint Cup Championship; Roush Fenway Racing, winner of the 2003 and 2004 NASCAR Sprint Cup Championship; and Andretti Green Racing, winner of the 2004, 2005 and 2007 Indy Racing League® (IRL) IndyCar® Series Championship; have been using Siemens PLM Software for many years to help develop their cars and improve their performance on the race track. KB Racing, winner of the 2003, 2004, 2005 and 2006 National Hot Rod Association (NHRA) Pro Stock Championship, began using Siemens PLM Software technology in 2005, and the Renault®

CIMdata PLM Industry Summary

F1 Team, winner of the 2005 Formula One Drivers and Constructors Championships, established a partnership in 2004 using [Tecnomatix® software](#).

 [Click here to return to Contents](#)

Siemens PLM Software-Sponsored Race Teams Off to a Roaring Start; Winning Races, Breaking Records

6 March 2009

[Siemens PLM Software](#) announced that Siemens PLM Software-sponsored racing teams – whose cars are developed with the help of Siemens PLM Software technology – are off to a strong start for the 2009 season, winning races and breaking records.

Siemens PLM Software-sponsored race team lead all three NASCAR® Series and National Hot Rod Association® (NHRA®) Pro Stock series standings. In the NASCAR Sprint Cup Series, Siemens PLM Software-sponsored race teams won the first three points races in 2009, setting multiple records along the way.

Joe Gibbs Racing's driver Kyle Busch won the NASCAR Sprint Cup Series at Las Vegas Motor Speedway. Busch became the first pole sitter to win a Cup race at Las Vegas, although due to league rules he had to start from the back of the pack after replacing a motor that blew during Friday's practice session. With this victory, Busch has now won a race in all three of NASCAR's series this season. He won the NASCAR Nationwide Series and NASCAR Camping World Trucks Series races at Auto Club Speedway in California, on Feb. 21, becoming the first driver in NASCAR history to win two major races series races in the same day. Busch is the current NASCAR Camping World Trucks Series points leader.

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“Siemens PLM Software congratulates our sponsored race teams for the record breaking start and we wish the teams good luck in the 2009 season,” said Dave Shirk, executive vice president, Global

CIMdata PLM Industry Summary

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 [Click here to return to Contents](#)

Siemens PLM Software Technology Used for Design and Engineering of Award-Winning Nissan GT-R

3 March 2009

[Siemens PLM Software](#) announced that its software solutions were used for the digital design, analysis and product data management (PDM) of the *Motor Trend*® 2009 Car of the Year, the Nissan GT-R.

Editorial staff at *Motor Trend* magazine conduct extensive off-road, street and track testing, and evaluate driving performance, safety and features to determine the annual *Motor Trend* Car of the Year award winner. The honoree represents the vehicle that best exemplifies exceptional value, superiority in its class and most significant development on the new-car scene.

Siemens PLM Software is a mission-critical partner for Nissan Motor Co., Ltd. (Nissan), providing PLM solutions to enable key business process improvement initiatives. The Nissan GT-R utilizes [NX™ Ideas™](#) and [Teamcenter®](#) software technology for product development and product data management respectively. Siemens PLM Software's digital product development solutions are used to digitally design vehicles and enable digital prototyping for all Nissan vehicles across the world. Teamcenter software, Siemens PLM Software's flagship PLM portfolio, serves as Nissan's global collaboration backbone. From early portfolio planning through product development, manufacturing and product obsolescence, Siemens PLM Software has set the standard for PLM technology in the automotive and transportation industry.

“The automotive industry understands the need to streamline product development and create efficiencies across entire organizations, and leading OEMs like Nissan are increasingly relying on PLM software to bring quality, efficient vehicles to market in a timely manner,” said Dave Shirk, executive vice president, Global Marketing, Siemens PLM Software. “We are proud to support Nissan with innovative design and product data management software solutions, and congratulate the company on this esteemed recognition.”

CIMdata PLM Industry Summary

Each vehicle vying for the *Motor Trend* award is evaluated against three essential criteria: superiority (innovation in engineering, technology, design, utilization of resources, safety, and packaging); significance (class-leading levels of vehicle dynamics and performance, build quality and execution); and consumer value. The Nissan GT-R was selected among 14 contenders for this year's award distinction.

In 2008, Siemens PLM Software technology was used for the design of the *Motor Trend* Car of the Year and Sport/Utility of the Year award winners. Over the past ten years, Siemens PLM Software solutions for design, analysis, product data management or digital manufacturing have been utilized by more than 80 percent of the award-winning vehicles recognized by *Motor Trend* in the categories of Car of the Year, Truck of the Year or Sport/Utility of the Year.

 [Click here to return to Contents](#)

Virage Logic Selected by NEC Electronics as Trusted IP Partner for Advanced 40nm Technologies

2 March 2009

[Virage Logic Corporation](#) has been selected by NEC Electronics (NECEL) Corporation, a leading integrated device manufacturer (IDM) for the high-end computing, broadband networking, automotive, mobile and digital consumer markets, to provide a comprehensive portfolio of silicon proven Silicon Aware IP™ at the 40-nanometer (nm) process node.

The use of Virage Logic's Silicon Aware IP helps enable IDMs like NECEL to design faster, lower-power and more area-efficient system-on-chips (SoCs) while achieving higher yields. The SiWare™ Memory products provide a powerful dashboard that enables SoC designers to manage the tradeoffs between performance, area, power and statistical yield to generate optimal memory configurations. The ability to meet key design requirements is critical at 40nm where design and process complexities demand sophisticated management of the various tradeoffs to effectively meet stringent end-product requirements and increasingly narrow market windows.

"Integrated circuits targeting consumer applications demand lower power consumption and smaller form factors which are driving the adoption of advanced process technologies," said Brani Buric, executive vice president of marketing and sales, Virage Logic. "By partnering with Virage Logic to gain access to highly differentiated IP for optimal performance, power, area and yield while achieving lower overall design and manufacturing costs, IDMs can help accelerate the delivery of a broad range of innovative products to the global market."

Virage Logic has been serving as NECEL's trusted IP partner since 2002 with its initial selection of Virage Logic's 130nm Area, Speed and Power (ASAP™) Memory and 150nm Non-Volatile Electrically Alterable (NOVeA®) Memory products. The expanded relationship includes the use of Virage Logic's SiWare Memory compilers and SiWare™ Logic libraries, and Self-Test and Repair (STAR™) Memory System for NECEL's 40nm SoC devices.

 [Click here to return to Contents](#)

Product News

Agilent Technologies' New System-Level Communications Design Software Speeds Development Cycle

3 March 2009

Agilent Technologies Inc. announced the availability of SystemVue 2008.12, a new platform for electronic system-level (ESL) design. The new platform delivers modeling, design-flow improvements and baseband IP libraries that can cut months from physical layer (PHY) design time for high-performance communications algorithms and system architectures in both wireless and aerospace/defense applications.

The new release accelerates development of high-performance PHYs for Software-Defined Radio (SDR) and other applications with three key contributions:

- a new, open ESL platform that connects multi-language algorithm design up to the communications system level, as well as down to hardware implementation and verification, for a more complete model-based flow;

- high-performance RF PHY simulation technology with links to RF and hardware verification; and,

- high-quality standards-based libraries for WiMAX™ and LTE baseband algorithm and hardware developers.

“SystemVue 2008 unifies capabilities from a variety of separate tool sets to produce airworthy, high-performance PHYs faster than ever before,” said Frank Ditore, product marketing manager with Agilent’s EEs of EDA division. “SystemVue makes existing hardware environments more effective for high-performance systems design.”

The new platform gives algorithm designers a view of working reference PHY blocks at the system level, while connecting them to rapid-prototyping and RF test for baseband hardware design and verification.

About SystemVue

Agilent’s SystemVue platform for electronic system-level design unites signal processing with RF design into a single, creative, system-level workflow. SystemVue’s simulation technology, standards-based verification and system design-to-verification flow cut total design time in half. These capabilities also make verification possible earlier in the design process. SystemVue’s applications include Software Defined Radio, LTE and WiMAX. It is an ideal platform for system architects, algorithm developers and hardware designers who create or implement digital signal processing for commercial wireless and aerospace/defense systems. Additional information is available at <http://www.agilent.com/find/eesof-systemvue>.

U.S. Pricing and Availability

SystemVue is available now for download and evaluation. Pricing for typical configurations starts at approximately \$15,000.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

CENIT Adds Solution for Simulating Physical Systems to PLM Portfolio

5 March 2009

[CENIT](#) is expanding its PLM portfolio by a custom solution for simulating engineering processes in the manufacturing industries. The software solution “Dynamic Modeling Laboratory“, or Dymola for short, is designed to enable simulation and visualization of nonlinear, dynamic industrial systems. Among the typical spheres of application are real-time simulations of automatic transmissions, robot optimization, as well as simulation in hydraulic or biomechanical systems.

Manufacturing enterprises benefit from Dymola’s quick and simple model generation, which relies on the use, re-use and modification of existing model libraries. The realistic, interdisciplinary simulations ensure that product quality already improves sustainably during the specification phase. Dassault Systèmes acquired the company Dynasim AB and thereby the rights to the Dymola software. Since Dassault Systèmes already maintains successful cooperation with CENIT as a value added reseller (VAR) for important Dassault solutions such as CATIA, DELMIA, and ENOVIA VPLM/SmarTeam/MatrixOne, the Stuttgart-based PLM specialist has now been authorized as vendor of and supporter for Dymola in the D-A-CH region (Germany, Austria, Switzerland).

“We are pleased to be able to take on this additional task“, says Kurt Bengel, member of CENIT’s Managing Board, in commenting on the expansion of the partnership with Dassault Systèmes. Bengel adds: “CENIT’s portfolio now includes an important new complement to the basic Dassault products that will be of special interest to our customers from the manufacturing sectors.”

Thus, CENIT will now devote its efforts to selling and promoting the Dymola software. In the fields of consulting and training, additional support will come from the Munich-based consulting firm BAUSCH-GALL GmbH, which managed all sales activities for Dymola in the D-A-CH region until August 2008. Kurt Bengel says: “Based on the very strong presence of CENIT on the product lifecycle management market and the extensive experience of BAUSCH-GALL GmbH, Dassault Systèmes expects a consistent continuation of the successful partnership and continued professional support for all existing customers. I am certain that we will live up to these expectations.”

Send queries to:

CENIT AG, Christoph Michl

Industriestraße 52-54, D-70565 Stuttgart, Germany

Phone: +49 711 7825-3393, Fax: +49 711 782544-4393, E-Mail: c.michl@cenit.de

 [Click here to return to Contents](#)

Delcam Offers NC-PartLocator for Accurate Machining

2 March 2009

Delcam has introduced a new software system, NC-PartLocator, to improve the speed and accuracy of production that can be achieved when machining large, complex or flexible components. The software, 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 piece is in exactly the nominal location specified in the CAM system. This adjustment can be made in the machine tool control much more quickly and easily than placing, and holding, the part in exactly the specified position.

CIMdata PLM Industry Summary

The main benefit of NC-PartLocator is that it is much more user-friendly than alternative solutions. “Delcam has previously offered software that needed to be customised for each application,” explained Peter Hammond from MSP. “Over a number of installations, we discovered that most of the manufacturing problems we were trying to solve were the result of similar issues. NC-PartLocator is an out-of-the-box application that can overcome the majority of these challenges, with a greatly-reduced need for customisation.”

The NC-PartLocator process uses a probe fitted onto the machine tool to collect the necessary data. A probing sequence is created within the software to collect a series of points from the workpiece. This can be used by a range of 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 workpiece 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 approach is much faster than trying to locate a heavy block of material into exactly the position specified, which can often involve many hours of adjustment and measurement.

NC-PartLocator can be used for the finish machining of components as well as for the production of tooling. For example, it is often necessary to drill into large plastic or composite components to a set depth to provide fixing holes. The flexibility of these materials means that expensive and complicated fixtures are needed to provide a consistent, flat surface for the drilling operation. Even then, inconsistency in the moulding process makes it difficult to ensure that the holes are all drilled to the same depth. By using NC-PartLocator, the surface of the component can be mapped, even if using more basic fixturing, 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 be used to prevent tolerance build-up when undertaking a series of machining operations. For example, if a series of holes have to be produced around a central bore, the location of the bore can be confirmed before starting the drilling operations. Again, using the actual positions of the features that have already been machined will give more accurate results than using the nominal positions from the CAD file.

 [Click here to return to Contents](#)

E³.cable 2009 Climbs the Hierarchy

3 March 2009

The 2009 version of the cabling and harness design module from the E³.series, E³.cable, has made one of the biggest steps in terms of development in recent years. In response to the ever growing requirement to manage complexity through design reuse, introduce environments conducive to collaborative working and the pressure to increase throughput at the same time as improve quality; Zuken has introduced the concept of hierarchical design into the heart of E³.cable. Pooling knowledge from Zuken’s other cabling design solutions, the development teams have got together to share expertise and have introduced tried

CIMdata PLM Industry Summary

and tested technology for electrical verification that allows the user to verify and check if the designed system really does work without having to export to third party verification environments.

Not being able to see and easily access design files to visualize the bigger picture can be very frustrating for electrical designers. The user can now view the complete hierarchy of the design from top to bottom, making navigation and interpretation of the final product much easier. More critically this clear design structuring makes design reuse a reality and also allows designs to be partitioned, enabling work to be performed in parallel. This top down or bottom up approach, combined with the logical structuring saves time, delivers more flexibility and goes a long way to facilitate collaboration and open working practices for transparent design processes.

The electrical verification functionality incorporated into the 2009 version of E³.cable allows users to check the system before progressing along the design process, to prevent errors and eliminate costly design re-work. Functional intelligence can also be implemented within a drawing that allows the users to set fundamental rules such as the calculation of the load terminal voltage and current, the fuse size check or the wire operation temperature check, that will prevent users making errors as they work through the design. This eliminates the requirement for manually checking, saving time and increasing reliability.

E³.cable 2009 is now available, for more information visit <http://www.zuken.com/e3.cable>.



[Click here to return to Contents](#)

Geometric Enables Integration of Teamcenter and DELMIA

5 March 2009

[Geometric Limited](#) announced the release of its [enterprise integration solution](#) for Teamcenter® software and DELMIA®, to help customers integrate their Teamcenter and DELMIA implementations.

Geometric's new interoperability solution provides process driven integration to enable the exchange of design, engineering and manufacturing data between Siemens PLM Software's Teamcenter digital lifecycle management software portfolio and Dassault Systèmes' DELMIA Manufacturing Hub. It enables a unified product reference, resulting in the availability of latest and in-context product information for manufacturing users, and early validation of engineering changes from the manufacturing perspective, thereby substantially reducing the change cycle-times and the associated costs of incorporating such changes.

Geometric has CAA Partnership with Dassault Systèmes and Foundation Partnership with Siemens PLM Software to build and distribute the solution, thereby ensuring support for the latest releases of Teamcenter and DELMIA.

“Manufacturing companies are increasingly adopting Digital Manufacturing to increase their productivity, and attempting to integrate it within their PLM solutions. Our Teamcenter and DELMIA integration solution helps customers collaborate between design and manufacturing domains to bring in a reduction in cost and time-to-market”, said Vijay Soni, Interoperability Practice Head, Geometric Limited.

Leveraging two decades of experience in designing, delivering, and deploying PLM solutions and its partnership with leading PLM vendors, Geometric has developed a number of niche enterprise interoperability solutions. These solutions help organizations optimize their PLM investments, thus, allowing them to deploy the PLM technologies of their choice.

 [Click here to return to Contents](#)

Geometric Releases NestLib® 2009 R1 with Significant Speed Improvements

25 February 2009

Geometric Limited announced the release of NestLib® 2009 R1 with enhanced performance enabled by latest developments in hardware and corresponding improvements to the software.

NestLib is one of the most successful nesting technologies in the market, focused on optimizing two dimensional packaging. It has been licensed by over 80 independent software vendors and original equipment manufacturers worldwide.

Some highlights of the new version include:

- Multi-core computing support. The nesting algorithms have been parallelized to take advantage of multiple processors available in multi-core machines. Users can experience nesting time reduction up to 40% on dual core machines and up to 70% on quad core machines.
- Inclined guillotine cut feature that makes it possible to have end-to-end inclined guillotine cuts for nonrectangular parts.
- Parts and sheets of different materials and thickness can be added to the same nesting order. NestLib will automatically select and nest parts with relevant thickness and material on the corresponding sheets.

This feature is also supported with Optimizer module for improved yield.

- NestLib libraries now support Microsoft Visual Studio 2008.

NestLib is recognized as one of the fastest and most efficient nesting libraries. It provides optimized, high speed and robust algorithms for fully automated True Shape nesting. The NestLib portfolio consists of a base module and a set of optional advanced modules for specialized functionalities including:

- Shear nesting module for saw parts requiring end-to-end cutting
- Common punch module for parts to be cut using punching machines
- Leather nesting module for leather parts with different quality patterns
- Remnant generation module for automatic remnant creation after nesting
- Tube nesting module for tube and pipe cutting
- Common cut module for nesting adjacent parts such that they share a common flame path.

Geometric Limited

NestLib is available as a static library, dynamic linked library (DLL), and COM DLL. It also supports Java and .NET framework. NestLib is available for 32-bit and 64-bit Microsoft Windows OS as well as for Sun Solaris and Linux platforms. It can be ported to Mac OS on demand.

To know more about the product and download the evaluation version, please visit <http://nestlib.geometricglobal.com> or write to tech.sales@geometricglobal.com

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

LEDAS Improves Variational Sketching Usability with Release 2.2 of its LGS 2D Geometric Solver

5 March 2009

LEDAS Ltd. (<http://www.ledas.com>), an independent software provider of computational components and software development services for PLM and ERP markets, released the next version of its variational geometric solver LGS 2D that is used by CAD/CAM/CAE software development companies to implement parametric capabilities in engineering applications.

Working with 2D parametric sketches, many CAD users face over-defined situations with a superfluous set of geometric constraints (logical and dimensional) that make parametric modifications of the sketch elements impossible. A variational constraint solver automatically detects over-defined parts of a sketch to be visualized for a user. Version 2.2 of LGS 2D contains significant improvement in this area.

Previously, any constraint cycle included a superfluous constraint was marked as over-defined, while typical user scenarios design a correct but logically over-defined sketch. For example, a user can create two vertical lines and then set a distance dimension between them. This distance dimension implies parallelism constraint, which is superfluous since both lines are constrained to be vertical. The problem is logically over-defined, but this does not prevent its successful parametric modification. In LGS version 2.2 developers can choose whether a cycle of superfluous logical constraints should be marked as over-defined by setting a relevant solver option. The default mode is the same as in the previous versions: all over-defined constraints are marked.

LGS 2D 2.2 is an important step forward in model diagnostics. The over-defined diagnostics algorithm was significantly improved to detect subtle constraint dependencies.

The solver's performance on large models with thousands constraints was advanced considerably. First, a new decomposition diagnostics was plugged in to enhance accuracy and efficiency. Second, the set of LGS 2D decomposition techniques was perfected and extended to further improve both the natural behavior (producing a solution that meets end users' expectations) and performance.

About LGS 2D

The LGS 2D geometric solver is a computational module, engineered to support two-dimensional parametric design in CAD and computer graphics systems, as well as many other applications that require parametric connections or constraints to be set between geometrical objects.

LGS 2D supports creation and modification of the geometric models by means of (explicit or implicit) constraints. Typical geometric objects are points, lines, circles, or arbitrary curves. Objects can be fixed in an absolute coordinate system or with respect to each other (the latter feature is provided by the so-called rigid sets of objects). A set of geometric constraints includes logical constraints between geometric entities (like coincidence, parallelism, tangency, etc.), and dimensional constraints (that specify the required values for the given distances, angles or radii). LGS 2D moves and rotates objects to positions where all constraints are satisfied with minimal possible transformations of the initial configuration.

LGS 2D is a cross-platform software package. It is a set of binary libraries that runs under all 32- and 64-bit Windows, Linux, *BSD, AIX, HP-Unix, Sun Solaris and other OS. Coded in C++, LGS 2D has a C-based API to be integrated into a broad range of software applications (even not coded in C/C++). LGS 2D can be used as a self-supporting component, or jointly with LGS 3D version. Both 2D and 3D versions have similar API, the set of three-dimensional objects and constraints intersects with the analogous set in two dimensional cases, providing a complete parametric solution for all aspects of

CIMdata PLM Industry Summary

CAD/CAM/CAE system functionality – from 2D sketching to 3D modeling, kinematics simulation, assembly design and analysis.

To learn more about LGS2D, visit LEDAS web-site at <http://ledas.com/products/lgs2d/>.

 [Click here to return to Contents](#)

Mastercam's Multiaxis Machining Increases Speed and Finish

March 2009

Multiaxis machining can increase a shop's competitiveness, and [Mastercam's](#) multiaxis machining offers a wide range of multiaxis machining strategies – both basic and advanced. Some enhancements to Mastercam's multiaxis machining include features in the Port5ax and Flow5ax toolpaths, TrueSolids 5-axis verify improvements, and much more.

Port5ax and Flow5ax Toolpaths – These toolpaths now include a new feature that allows an overlap or blend to be added at the beginning and end of a toolpath. This feature is very useful in creating better finishes where toolpaths may need to meet from opposite directions. Several options are available for controlling the start and end of a port or flowline multiaxis toolpath, including skipping the first pass, last pass, or both, and blending the entry, exit, or both.

TrueSolid 5-axis Verify– TrueSolids 5-axis Verify is now included in Mastercam's multiaxis machining. TrueSolid 5-axis Verify uses solid modeling technology for toolpath simulation. After verifying a part in TrueSolid mode, you can rotate and magnify the part to more closely check features, surface finish, or scallops.

Smart Interface – Mastercam's advanced multiaxis machining lets you choose what type of project you are doing, and adjusts the interface to show exactly what you need to complete your job.

Other multiaxis features include:

- General speed improvements
- Advanced gouge checking and 5-axis *safe zone* around parts help ensure safe cuts in even the most complex operations
- Machine 5-axis curves with independent definitions of tool side angle and lead/lag angle
- Special options for machining cylinder heads and converting probe data to machinable geometries
- Much more.

 [Click here to return to Contents](#)

Right Hemisphere Joins PLM Alliance and Contributes Visualization to Alliance's ezPLM Solution

2 March 2009

[Right Hemisphere®](#) announced that it has joined the PLM Alliance serving SAP® PLM customers and contributed an important new component to the Alliance's ezPLM software suite. Founded by CENIT AG, CIDEON AG, DSC Software AG and .riess engineering GmbH, the PLM Alliance members share a common objective to jointly develop, market, and implement solutions surrounding SAP PLM.

"Right Hemisphere offers advanced software specifically for the SAP PLM environment and, in fact,

CIMdata PLM Industry Summary

created the visualization technology inside of SAP PLM 7.0. As a result, Right Hemisphere is a critical partner to have in the PLM Alliance and to complete the ezPLM software portfolio," said PLM Alliance Chairman and CEO of CENIT North America Horst Heckhorn. "With a visualization option in the ezPLM suite, customers now have a means to create and publish 2D and 3D graphics in lightweight formats inside of SAP PLM that support key business processes across their enterprises."

The ezPLM Visualization Package enables customers with a SAP PLM infrastructure to generate, store and deliver 2D and lightweight 3D graphics and documents from CAD models as predefined, event triggered processes. It also enables SAP customers using releases 4.7 or higher to leverage Right Hemisphere's technology for part viewing, assembly viewing and redlining. The ezPLM Visualization Package and the other ezPLM solution components are expected to be available for purchase in Q2.

"Right Hemisphere's participation in the PLM Alliance is another indication that we are very serious about being a permanent and essential component of all SAP based enterprises," said Right Hemisphere Vice President of Worldwide Marketing and Business Development Rix Kramlich. "Over the last two years we have engaged with SAP, received equity funding from SAP Ventures, created a version of our flagship Deep Server software specifically for SAP PLM, completed important SAP certification work, had our visualization technology adopted by SAP and embedded in SAP PLM 7.0, and most importantly, been purchased by SAP customers. At this stage, we're forecasting strong, continued interest in our solutions."

CENIT and the PLM Alliance are authorized SAP PLM Special Expertise Partners with extensive accumulated experience and know-how from having completed numerous successful PLM projects. For more information on the PLM Alliance, its members, and the ezPLM solution, please go to the PLM Alliance Web site at <http://www.sapplmalliance.com/>.

 [Click here to return to Contents](#)

ROHR2 Update 30.3b - Pipe Stress Analysis Now Released

25 February 2009

SIGMA GmbH, announces the release of ROHR2 30.3b.

ROHR2 is a leading European Software for Pipe Stress Analysis, a standard tool for pipe static and structural framework analysis, covering a variety of specifications like ASME, ANSI, KTA, EN 13480, STOOMWEZEN D1101, BS 7159 and ISO 14692.

The new release ROHR2 30.3b adds several features like:

- New report generation module in ROHR2 - creating a calculation report including input data and results

- Revised ROHR2 implemented Stress Codes, ASME Cl. 1, 2, 3

- Extended automatic analyses of wind loads

- Life-time input for creep strength analysis

For details please refer to the ROHR2 30.3b update info or visit <http://www.rohr2.com> for a detailed overview about the features of ROHR2, additional programs and interfaces.

The ROHR2 STATIC and DYNAMIC standard version now includes the Neutral CAD interface and PDMS input/output integration. There are several options to integrate ROHR2 into your IT-Structure

CIMdata PLM Industry Summary

like single user licenses, network licenses or multi-user solutions.

A large portfolio of interfaces for CAD and CAE systems, a user integrating software training and the maintenance concept including program updates and user support complete the functionality of ROHR2.

About: ROHR2

ROHR2 is one of the leading Pipe Stress Analysis tools, standard software for static and dynamic analysis of piping systems and structural frameworks.

The software is equipped with a range of additional features enhancing the engineer's daily job, as there are FEM analysis, isometric capabilities and a wide range of interfaces covering the leading CAD/CAE systems.

ROHR2 is developed continuously in order to incorporate the ongoing changes in the stress calculation codes and norms but also to improve the user interface and extend the capabilities of ROHR2 according to the user's needs.

About: SIGMA

SIGMA, established in 1989 in Dortmund, Germany has emerged as a partner of choice for leading international companies with its software and the wide variety of engineering services. SIGMA is known as one of the leading engineering specialists in the Pipe Stress Business in Europe, offering field tested products, strongly adapted to the user's needs.

Contact:

SIGMA Ingenieurgesellschaft mbH

Bertha-von-Suttner-Allee 19

D-59423 Unna

Germany

Tel +49 2303 33233-0

sales@rohr2.co



[Click here to return to Contents](#)

Siemens PLM Software Delivers Parasolid Version 21

3 March 2009

[Siemens PLM Software](#) announced the availability of [Parasolid® Version 21.0 \(V21\) software](#), the latest release of its PLM 3D geometric modeling component software.

Parasolid V21 includes numerous modeling enhancements across a wide spectrum of functionality which together represent a significant step forward in modeling capability and productivity. These enhancements will benefit the independent software vendors who have licensed Parasolid modeling technology to produce more than 350 leading end-user products in the product design and analysis market space:

Local operations – Several enhancements have been made to allow significantly more complex changes while performing local edits of geometry. For example, options have been added to automatically indicate desired behavior when features such as holes and bosses interact as the result of a local editing

operation.

Enhanced surface creation – Sophisticated sheet and surface creation and manipulation capabilities have been extended. For example, users can perform sweep operations with enhanced control of rotation as well as with more complex configurations of guide curves. In addition, users can perform loft operations between profiles while twisting along a path.

Application support – A new diagnostic mechanism has been added and the tools that help application developers track the creation, editing and deletion of entities have been further developed to provide more support for sophisticated undo and rollback algorithms.

“Parasolid V21 represents another significant step forward in modeling technology, enabling end-users to manipulate their designs intuitively for maximum productivity without the need to consider the technical complexities of the operations they perform,” said Joan Hirsch, vice president of Product Design Solutions, Siemens PLM Software. “By constantly addressing the complex technical challenges presented by our demanding customer base, Parasolid has cemented its reputation as the world’s pre-eminent solid modeling kernel.”

 [Click here to return to Contents](#)

STAR-CCM+ V4 is Now Available From the User Services Site

2 March 2009

STAR-CCM+ V4 is now available from the User Services Site. In the six years since its first release, STAR-CCM+ has evolved into more than just a CFD code, and is now an integrated platform for multi-disciplinary simulation, including: combustion; multiphase flow; heat transfer through solids and fluids; dynamic fluid body interaction; and solid stress: all from within a single environment.

As with each previous release, STAR-CCM+ V4 includes new physical models, such as the introduction of erosion modeling, improved combustion models as well as the capability to simulate melting and solidification. However, according to Jean-Claude Ercolanelli, CD-adapco’s Vice President Product Management, the new version delivers much more in terms of productivity and collaboration enhancements: “To play an effective role in a modern integrated engineering environment, simulation demands a tight collaboration among engineers and designers from a wide range of backgrounds and engineering disciplines. STAR-CCM+ V4 introduces new tools that facilitate the sharing of CAD data and engineering simulation, driving innovation through increased levels of integration and automation.”

Integrate

STAR-CCM+ V4 provides a free stand-alone results viewer called STAR-View+, that facilitates collaboration between engineering teams by giving everyone access to interactive visualization of the computed results: “Understanding someone else’s simulation displays is never an easy task,” says Ercolanelli. “Industrial CAE results are inherently three-dimensional; in order to properly understand a flow, thermal and stress solution you need to explore it. STAR-View+ is a new utility for STAR-CCM+ that makes the viewing of CAE results more interactive and moreover is accessible to everyone regardless of whether they hold a STAR-CCM+ license or not.”

STAR-CCM+ V4 allows users to distribute post-processed simulation results as “scene files” containing a three-dimensional representation of the stored CAE plot. When viewed using STAR-View+, scene files allow the viewer to zoom, pan and rotate the stored model and post-processing data, as if the model were in STAR-CCM+. Now anyone, whether a STAR-CCM+ user or not, can have the luxury of fully

exploring the solution.

STAR-View+ is free to distribute, requires no license, which means that you can simply attach it to an email with a selection of scene files.

To download and share STAR-View+, along with some example scene files, please visit: <http://www.cd-adapco.com/starviewplus>.

Automate

“Automation is the central tenet of the STAR-CCM+ philosophy,” says Ercolanelli. “Rather than restricting users to the simulation of a few design points, STAR-CCM+ is specifically designed to allow engineers to simulate the entire design space – spawning multiple design iterations from a single simulation scenario. The release of STAR-CCM+ V4 sees the introduction of a new ‘parts structure’ within the user interface, closing the gap between CAD design and CAE simulation. As CAD data is imported the hierarchy of the assembly is reproduced allowing users the ability to duplicate, replace, repair, transform and export individual components from the tree, manually within the STAR-CCM+ environment, or automatically using simple macros.”

CAD part-names and meta-data are also preserved in the hierarchy, meaning that the simulation remains linked to the original CAD model. Once an initial simulation has been prepared, meshing and physics data are stored in a template, so that any changes to the CAD model can be reflected in the simulation results with little or no effort from the user.

Complex assemblies of parts, STAR-CCM+ V4 can also automatically identify the contact regions between adjacent parts and define a boundary condition and interfaces between them - a feature that considerably eases the process of setting up conjugate heat transfer and thermal stress problems.

To see a video demonstrating the new parts functionality in action, please visit:

<http://www.cd-adapco.com/partsdemo>

Innovate

“The overall benefit of increased automation is that engineers get to spend less time manually preparing simulations and more time analyzing engineering data,” says Ercolanelli. “Increased levels of collaboration mean that this information can more easily be disseminated to the entire engineering organization; breaking down barriers between the different disciplines that contribute to the engineering design of a new product. A constant stream of more complete engineering information flowing through an organization can only lead to better engineered, more innovative products which are better suited to the needs of an increasingly competitive global marketplace.”

The STAR-CCM+ V4.02 is now available from CD-adapco’s User Services site, or from your local CD-adapco office.

 [Click here to return to Contents](#)

Surfware Selects ModuleWorks for 5-Axis Machining

5 March 2009

ModuleWorks, a leading supplier of CAD/CAM components for 5-Axis machining has confirmed their partnership with Surfware Inc., developer of the CAD/CAM system, SURFCAM®. The partnership agreement sees ModuleWorks provide their 5-Axis machining technology to be used in the SURFCAM

Velocity® 4 Multi-Axis product.

Through the partnership, SURFCAM Velocity® 4 Multi-Axis has taken manufacturing capability to a new level with sophisticated multi-surface 4 and 5-Axis simultaneous machining, including complete tool and shank gouge protection to ensure safe toolpaths for the most complex of applications.

According to Greg Schils, Surfware Product Manager, "The ModuleWorks tools allow us to take our system to the next level of functionality and user control. The addition of ModuleWorks to our multi-axis package gives users many additional, advanced functions and controls that allow them to machine parts that require an advanced programming system. Our customers now have the ability to perform work they not may have previously attempted to do."

ModuleWorks Managing Director, Yavuz Murtezaoglu comments, "We are very pleased to have Surfware as a partner. SURFCAM Velocity is renowned for high quality toolpaths and surface finishes and now includes 4- and 5-Axis simultaneous machining through the addition of ModuleWorks technology".

For more information, please visit www.ModuleWorks.com or www.surfware.com

 [Click here to return to Contents](#)

VX 2009 Delivers Fully Expandable CAD/CAM with Built-In Learning

3 March 2009

VX Corporation unveiled VX 2009 in its worldwide reseller conference. VX is inviting CAD/CAM users to try this fully expandable CAD/CAM product that has a built-in 3D learning system, Show-n-Tell™. These integrated 3D Books allow users to learn CAD/CAM at their own pace, on their own schedule. This fully expandable approach allows users to grow the software as their needs change while having instant access to learning tools.

Show-N-Tell™ Built-In Learning Cuts Training Costs and Shortens the Learning Curve

Show-n-Tell™, launched in September 2008, now includes an additional 10 new 3D tutorial books for healing, mold & die design, and 2-3 axis machining which are available in several languages. In addition to nearly eliminating training costs, Show-n-Tell™ tutorials make it easier to adapt to VX applications. To top it off, on-line chat and web meeting help is available in conjunction with Show-n-Tell™. The authoring tools have been enhanced to make it easier for users to create design review and assembly instruction documents directly in VX. New 3D ballooning and text tools allow users to choose font, color and border style and lock balloons to screen locations or directly to their model. These new text tools enhance the on-screen instructions in the 3D tutorials, improving the overall learning experience.

Expandable CAD/CAM Grows to Meet Your Needs

The release of VX Innovator and the new 3D Machinist products rounds out the product line making VX a fully expandable product. Users can start in at any point and add functionality to meet their growth needs. For instance, even customers on a small budget can get started with VX Innovator and grow into advanced surfacing, digital model reconstruction, and mold & die design and machining. This means they can meet their expanding design and manufacturing needs as their business grows. Customers will also be glad to learn that VX Innovator has floating-license support. VX Innovator is the perfect tool for product and mechanism design, detailing, design review, and quoting.

Ease-Of-Use and Reliability Increase Design Productivity

VX 2009 also introduces new interface enhancements and improved reliability. Users can now enjoy

CIMdata PLM Industry Summary

better predictability, the ability to constrain lines and arc/circles tangent to splines, and new options for 2D linkages with the newly added D-Cubed 2D constraint manager in VX sketcher.

Patterning in VX 2009 has been upgraded with a new dynamic preview option which now shows the result, so changes can be made more quickly and on-the-fly.

The VX Overdrive™ engine has been revved up to handle more extreme geometry conditions. For example, the draft command supports changes in draft angle that can cause complete faces to be removed. The simplify command now supports more complex cases and can now clean up shape intersections. Filleting continues to be improved, handling even more fillet cases than the previous releases.

It is now even easier for users to add purchased parts to assemblies from their common suppliers. All VX 2009 products include a direct interface to the TraceParts™ and CADRegister™ libraries with complete bill-of-material support. TraceParts™ in particular lets users insert parts from thousands of suppliers directly into a VX assembly from over the internet, without requiring a separate download. It's nearly the same as having the library reside on your local system.

The combination of the improvements and enhancements contributes to a shortened learning curve and increased design productivity.

2D Detailing is Still Important for Communication

VX 2009 speeds 2D drawing creation with improved editing of section and detail views. Users have total control over formatting of BOM, hole and electrode tables and their associative balloon layouts. Balloons can be rapidly organized with automatic or manual sorting. Manual edits are retained even when details are regenerated. The new "balloon dimension" stretches the border to match the text length. Automatic drawing layouts have improved view scaling, so less manual interaction is required.

CAM Enhancements Lead to Increase Performance and Expanded Capability

New thumbnail images for each CAM parameter help explain settings, so that changes to machining operations are more easily understood and are especially helpful for new users or those who are upgrading from legacy CAM products.

The VX QuickMill™ high-speed milling engine found in 3D Machinist and the End-to-End products has been refined for better performance and reliability. QuickMill users will appreciate a 20-30% improvement in overall calculation times, particularly noticeable when machining huge complex parts.

 [Click here to return to Contents](#)