

Contents

CIMdata News	2
Only Nine Business Days Left to Participate in Our Opinion Poll on your PLM Hosting Environment	2
Company News	3
After India and China, think3 Targets Russia	3
Avatech Solutions Experiences Rising Demand for Green Building Technology and Services	4
AVEVA Opens Latin America Office in Brazil	4
Delcam's PowerSHAPE Used for Customised Manufacturing of Motorbike Seats	5
Delcam Triples Number of Leads at JIMTOF	6
Leading Semiconductor Companies Look to Dassault Systèmes to Improve Design Collaboration and Management	7
LEDAS Announced Successful Completion of the First Stage of the Project for Localizing DELMIA Solutions for the Russian Market, Commissioned by Dassault Systèmes	8
Mentor Graphics Collaborates with Lake Washington Technical College to Open PCB Design Laboratory	8
ModuleWorks Offers New 5-Axis book Extract Online	9
PDES, Inc. and ProSTEP iViP Set the Seal on Extended Cooperation	10
Richard Branson to Keynote SolidWorks World 2009	11
Siemens PLM Software Chairman and CEO Honored for Excellence in Diversity Leadership	11
Successful Relaunch of OPEN MIND Technologies Website	12
Surfware Inc. Receives Patent for Engagement Milling (TrueMill®)	13
Events News	13
Anark Corporation to Exhibit at 11th Annual Boeing Product Data Exchange Conference	13
ASCONE to Present KOMPAS-3D V10 at EuroMold 2008	14
Geomagic Announces Convergence 2009	14
Meeting of PLM Network Thursday, November 13th Featuring Expert Panel on Managing the Flow of Data in an Outsourced Environment	15
OptiTex Celebrates in India its 20th Year Anniversary	16
Right Hemisphere to Present the Advantages of a Visual Manufacturing Approach at Boeing Conference	16
TransMagic Exhibits at Boeing Data Exchange Conference	17
VISTAGY Announces Webinar "Reducing Risk and Cycle Time in Composite Airframe Manufacturing: A Holistic Approach"	17
Financial News	18
Agilent Technologies Reports Fourth Quarter 2008 Results	18
Avatech Solutions Maintains Profitability in Fiscal 2009 with Net Income for First Quarter	22
AVEVA Group plc: Interim Results for the Six Months Ended 30 September 2008	23
Cadence Filed Form 12b-25: Notification of Late Filing with respect to its Quarterly Report on Form 10-Q	26
Cimatron's Q3/2008 Results Release Scheduled for November 17th	27
Mentor Graphics Lowers Fiscal 2009 Guidance and Announces Fiscal Third Quarter Conference Call	27
Valor Announces Q3/2008 and Nine Months Results	28
Implementation Investments	30
A Greener Recipe for Clean Drinking Water; Trojan Technologies uses SolidWorks 3D CAD and Simulation Software to Develop Disinfection Systems Based on UV Light	30
Alenia Aeronautica Selects Fiper from SIMULIA for Enterprise-Wide Simulation Integration and Collaboration	31

CIMdata PLM Industry Summary

ASUS Chooses Altair HyperWorks Suite for Consumer Product Engineering	32
Autodesk and CDW Government, Inc. Partner to Revitalize Iraqi Manufacturing Industry	32
AVEVA Solutions Power China's Plant Industries	34
Bell Helicopter Standardizes on Dassault Systèmes' PLM Solutions to Maximize Efficiency and Improve Compliance Efforts	35
Catalog Data Solutions Customer Wins Major New Accounts with CAD Downloads	36
Dyadem Helps Emerson Climate Technologies Improve Product Quality with Stature	37
GETRAG Chooses Actify's SpinFire Solution for 3D Visualization	38
NEC Electronics Selects Mentor Graphics Calibre nmLVS for Advanced Circuit Characterization at 40nm and Below	39
New Case Study Highlights How Piping Layout Consultants Doubled Productivity Using CADWorx Plant Professional from COADE	40
Oguma Industry Improves Design Process and Quality with Dassault Systèmes' Mid-Market PLM Solution, CATIA PLM Express	41
TSMC Purchases Magma's Titan Analog Migration to Reduce Analog Porting Time	42
Van Alphen Sees ROI in just over Three Months with JETCAM and OMAX	42
Product News	44
Cadence Launches ActiveParts Portal and Brings New Productivity-Boosting Technology to Latest OrCAD Release	44
Conformia Solution Enables an Integrated Information Environment for Pharmaceutical and Biotech Industries	45
Delcam's New PowerMILL Offers Complete Control	46
Design & Optimize Piping Systems with New Engineering Software Engineered Software, Inc. Releases PIPE-FLO® Professional 2009	47
Elysium's CADfeature Boosts Automation of Data Translation Tasks	48
Icona Solutions Introduces Perceived Quality and Cost Optimisation Services Offering	49
JETCAM Releases SolidEdge Importer	51
New SmartCAM V15.5 Release Boasts New Nesting, Verification Control, Turn Roughing Enhancements	51
Open Text Introduces New Version of Imagination Content Viewer Solution	52
PTC Introduces Pro/ENGINEER Manikin; New Solution Optimizes Human-Product Interactions	53
STAR-CCM+ V3.06: Automatic Flow, Thermal and Stress Simulation	54
Synopsys Announces Complete SuperSpeed USB IP Solution Consisting of Device Controller, PHY and Verification IP	56
The Light Version of KOMPAS-3D is Now Available for FREE	57

CIMdata News

Only Nine Business Days Left to Participate in Our Opinion Poll on your PLM Hosting Environment

November 2008

CIMdata has posted an opinion poll for November. It is a brief one that deals with your PLM hosting environment: its primary hardware platform, length of time it has been in place, and your upgrading plans and priority. Take a moment now to vote [here](#).

The results of these polls are tabulated as you vote. The results are completely anonymous.

If you have a suggestion for a poll you'd like to see contact us at info@cimdata.com.

 [Click here to return to Contents](#)

Company News

After India and China, think3 Targets Russia

10 November 2008

[Think3](#) expands its Russian sales network thanks to Axoft Company, a Moscow-based distributor that can effectively and extensively cover the Russian, CIS and Mongolian markets.

The agreement arises from the will of the multinational to maximize its presence in an extremely large market offering great opportunities like the Russian one, and to strengthen its sales network in Eastern markets with a partner with considerable expertise in distributing software solutions, that is also able to propose all think3 styling, engineering, tooling and PLM products while offering training and consulting services to its subdealers.

Axoft Company, has been operating for almost 10 years and has 40 offices in its territory. The company distributes solutions for more than 400 vendors, including Microsoft, Oracle, Computer Associates, Adobe, MathWorks, McAfee, Trend Micro, and boasts a network of 4000 partners (resellers, system integrators, OEMs, ISVs etc.), to whom Axoft will provide think3's CAD and PLM solutions.

Think3's partners are chosen by their capability to cover an assigned geographic area and provide support to their clients with the same attentiveness and competence that anybody directly from the think3 would. At the moment, think3 counts more than 50 VARs in more than 20 countries, that are carefully selected and supported with technical and sales training.

“With think3, we were able to enrich our offering with a new and prestigious brand which adds luster and competitiveness to our offering, especially in a strategic segment like the CAD and PLM one” – said Vadim Korolkov, CEO Axoft Company – “We believe think3's products have all the technological and business qualities to be very successful both with our existing customers and in new business areas.”

“Our partnership with Axoft Company is a further step in the strategic expansion of our global sales network”, said Amedeo Brasolin, Vice President Sales, think3. “Among the most important emerging countries, Russia has the third fastest growing market after China and India, countries where think3 is already present. I am sure that the expertise, skills and efficiency of Axoft Company will significantly drive think3's growth in this country which, with its rapidly expanding economy and growing industrial production (in the manufacturing industry in particular), is an extremely interesting market for us to invest in.”

Think3 boasts a consolidated presence across Europe, the US and Asia. The company has also secured a strong presence in China following joint venture deal sealed with Beijing Extech Science & Technology Co. Ltd to create EXTECH, a brand new company based in Beijing, with offices across the country. In the rest of the world, think3 is present throughout its network of selected VARs (Value Added Resellers).

About AXOFT

At present Axoft is a leading provider of wide range of software in Russia and CIS countries.. Axoft partners' network consists of more than 4000 companies. Axoft Regional Offices operate in 28 cities of Russia and 5 in CIS. Total revenue — \$70.5 Mio; sales growth over 160% compared with the year 2006. More in-depth information about the company "Axoft" can be found at <http://www.axoft.ru>.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Avatech Solutions Experiences Rising Demand for Green Building Technology and Services

12 November 2008

[Avatech Solutions, Inc.](#) announced that a growing number of customers are using its professional services to effectively and efficiently implement the technology necessary to design and construct greener buildings. Avatech's expertise in the areas of building information modeling (BIM) and sustainable design is proving key to architecture and engineering firms that need to comply with the desires of clients and new government regulations.

With buildings consuming 76 percent of all electricity produced by power plants, the U.S. Department of Energy's "2030 Builders Challenge" calls for all new construction to reduce energy by 50% in 2010 and become carbon neutral by 2030. Architects, design engineers, and building owners are increasingly opting to use BIM and energy analysis to enable buildings to capture passive thermal heat from the sun or use specific building materials to better regulate inside temperatures. These steps significantly reduce a structure's energy demand and so reduce building operating costs and environmental concerns.

"We have always performed energy analysis, but the use of a BIM model drastically cuts the time required to complete the process. A BIM model quickly connects complex systems together, allowing for more precise analysis of design options for optimal energy savings," says Bob Rayes, director of Advanced Resources for SHW Group, an Avatech client.

Beau Turner, director of business development for Avatech Building Solutions Group, states "In the face of volatile energy costs and environmentally focused government regulations, sustainable buildings are becoming the norm. More firms are turning to Avatech's professional services team to implement the latest technologies to create truly sustainable buildings."

"The long-term implications associated with the downturn in the economy makes going green sensible for our customers," says George Davis, president and CEO, Avatech Solutions. "If done correctly, financial savings from green architecture and construction are realized throughout the building process, as well as the lifetime of the building. In addition to the environmental and building performance benefits, these processes improve the bottom line performance of leading design and construction firms across the country by reducing costs and driving greater efficiencies."

 [Click here to return to Contents](#)

AVEVA Opens Latin America Office in Brazil

10 November 2008

[AVEVA](#) announced further expansion into Latin America with the opening of AVEVA do Brasil in Rio de Janeiro. This office, the latest in AVEVA's expanding global platform, will provide premium product solutions and support for its growing customer base in Brazil, including the country's leading energy company.

Richard Longdon, Chief Executive of AVEVA Group, said, "As we look to the future of global energy and infrastructure development, we are continuing our strategy of increasing our presence in the BRICs - Brazil, Russia, India and China. Undoubtedly, it is an opportune time for our further expansion into the Latin American.

"Brazil has huge opportunity as well as the excitement of the recent pre-salt discoveries. AVEVA's principal goal is to provide premier product solutions backed by local support and service to our

CIMdata PLM Industry Summary

customers around the world. Our expanding operations in Latin America are a clear signal of our commitment to our customers in the region. Further, it highlights the strength and growth of the energy industry in the region."

AVEVA serves customers throughout the Latin American region - including Mexico, Chile, Venezuela, Columbia, Argentina and Peru. In Brazil, AVEVA has been serving customers for 10 years. Today, the country accounts for more than 20 percent of AVEVA's revenue for their Americas region.

"We work closely with more than 50 customers in the oil and gas, mining, paper and pulp industries in Brazil," said Santiago Pena, AVEVA's vice president of Latin America. "Our new office allows us to strengthen those relationships and to continue to provide world-class technology and support that they have come to rely upon."

The office in Rio is strategically located, providing easy access to customers, as well as engineering contractors serving the oil and gas market.

 [Click here to return to Contents](#)

Delcam's PowerSHAPE Used for Customised Manufacturing of Motorbike Seats

10 November 2008

Delcam's PowerSHAPE CAD software has been used for the customised manufacture of motorbike seats as part of the Custom-Fit project, the largest research project into rapid manufacturing in Europe. The seats are now being evaluated by Ducati to assess the increased comfort that is obtained from the customised seats and the financial viability of their manufacture.

Custom-Fit is an industry-led, research project supported by the European Community and coordinated by Delcam. With a total of budget of 16 million Euros, including a funding of more than 9 million Euros from the Commission, both the project members and the Commission believe that the project outcomes will benefit both society and industry in Europe.

The members of the consortium are made up from a broad base of organisations across Europe, in the fields of manufacturing, design, scanning, materials and consultancy. The aim of the project is to develop systems for the production and supply of personalised custom products or components.

To access the potential market for customised motorcycle seats, a three-month survey was carried out by Loughborough University in the UK and Ducati in Italy as part of their work within Custom-Fit. 81% of the 3,200 responses said they would be happy to pay extra for a more comfortable, customised seat.

The process developed to manufacture the seats used five steps:

1. A pressure map is derived by using a pressure-blanket on the standard seat while the rider is seated on the motorbike.
2. Digitally, the comfort map is laid onto a CAD model of the seat to define regions in which the internal stiffness of the seat's structure needs to be altered.
3. The upper side of external shape of the seat is morphed in PowerSHAPE to fit the measurements of the rider's size and shape.
4. The software automatically builds the CAD model of seat's internal spring-structure for each comfort region.

5. An STL file of the seat is used to manufacture of the Custom-Fit cushion.

The customisation process based on the comfort map looks promising, even though this approach has not been used before. The integration of the springs is an innovative approach, which enables a customised product to be created without dramatically changing its shape.

However, several improvements were thought to be needed, including design improvements for the springs to increase their fatigue properties. In addition, more investigation of the correlation between comfort and compression was required to give a more advanced distribution of weight using finer variations in the internal structure's shape.

Most importantly, testing of the current result by riders needs to be undertaken, followed by a process and product cost re-evaluation to see whether the cost for the improved comfort is

 [Click here to return to Contents](#)

Delcam Triples Number of Leads at JIMTOF

November 14, 2008

[Delcam](#) Japan received three times as many leads at the JIMTOF exhibition held last week in Tokyo compared to the equivalent event organised two years ago. This made the event the most successful exhibition in the company's history, according to Delcam Japan President, Sandy Moffat.

The success of the exhibition was achieved despite the difficult economic climate in Japan at the moment. Mr. Moffat believes that the current financial pressures have increased the need for companies to review their choice of CAM software as they seek to become more efficient. "Introducing new software can be a relatively cheap way to increase the productivity of both people and machine tools," claimed Mr. Moffat. "The faster calculation times that are possible with Delcam software make programmers more effective, while the more efficient machining strategies can increase machine tool output significantly."

"In addition, this year's exhibition was the first where Delcam had been able to show its complete range of CAM systems on a single stand, following the acquisitions of the FeatureCAM and PartMaker families of software," explained Mr Moffat. "This was the key factor in our success since we can now offer a CAM system to machine virtually any product, in any material on any type of equipment. No other supplier has such a broad a range of software to increase productivity, improve quality and shorten delivery times in so many applications."

Delcam's full range of CAM systems is now made up of PowerMILL for high-speed and five-axis machining, FeatureCAM for feature-based milling, turning and wire EDM, PartMaker for Swiss-type lathes and turn-mill equipment, and ArtCAM for routing and engraving. Together, the complete set of programs make up the world's most comprehensive collection of machining software, giving Delcam an unrivalled ability to provide solutions to all of a company's programming needs.

A second major contributor to Delcam's success at JIMTOF was the large number of technical partners that were involved in the exhibition. "We had over 30 of our technical partners among the exhibitors," reported Mr. Moffat. "This included many of the leading suppliers of machine tools, cutting tools and inspection equipment. A number of the visitors to our booth had been referred by our partners because they recognise that the best-possible software is needed for their customers to get the maximum benefit from their equipment."

CIMdata PLM Industry Summary

The third important element in Delcam's success was the launch of new products across the company's complete range of CAM products. "Delcam employs the largest development team in the CAM industry," said Mr. Moffat. "All our developers have been working flat out to prepare these new releases. The results of their efforts impressed all our visitors, both the potential customers that were looking to upgrade their existing software and our existing users that were excited to see the new enhancements they will be receiving in the coming months."

 [Click here to return to Contents](#)

Leading Semiconductor Companies Look to Dassault Systèmes to Improve Design Collaboration and Management

12 November 2008

Dassault Systèmes (DS) announced a new white paper from the [Gantry Group](#) which found that semiconductor companies using ENOVIA PLM solutions reported a number of clear benefits including a 74% increase in multi-site designs, a 46% savings in design engineering time and a 32% increase in product quality.

The study conducted by the Gantry Group, a technology research and ROI analysis company, entitled ROI Impact Analysis of ENOVIA Synchronicity DesignSync Data Manager, was based on a series of in-depth interviews with more than 15 of the top semiconductor companies who have deployed the ENOVIA Synchronicity DesignSync Data Manager solution.

"In today's economy, semiconductor companies cannot afford to waste time and money on an extensive, error-filled production process, nor can they afford to miss the small window they have to get new products out to market," said Rick Stanton, Director, Global Semiconductor Strategy & Solutions ENOVIA R&D, Dassault Systèmes. "The cost and timing pressures to 'get it right the first time' highlighted in the Gantry white paper demonstrate exactly why it is so important to have a strong collaboration and design management tool in place."

ENOVIA Synchronicity DesignSync enables semiconductor companies to streamline business processes and reduce new product development time through one cohesive source of information that allows management and collaboration of design information, as well as visibility into the development process of each and every product. Customers are able to improve engineering efficiency through implementing comprehensive IP Reuse and hierarchical, top-down design methodologies, decreasing costs, increasing first-sample success rate and reducing the design productivity gap. For more information on ENOVIA Synchronicity DesignSync and other ENOVIA solutions for the semiconductor industry, please visit the company's [Web site](#).

Gantry's research also revealed that DesignSync is helping customers define exactly what their product release management process is. It is also seen by these customers as an invaluable tool for:

- maintaining a competitive advantage;
- enabling the increased use of hierarchical design and re-use of IP;
- cost control and risk management;
- multi-site design management and collaboration;
- improving time-to-market; and

CIMdata PLM Industry Summary

- improving customer satisfaction.

“Gantry Group believes that the ENOVIA Synchronicity DesignSync Data Manager can directly assist in controlling costs and serve as a critical technology component for electronics companies seeking to differentiate further from the competition,” said Dawna Paton, managing partner, Gantry. “ENOVIA Synchronicity DesignSync Data Manager is considered the foundational infrastructure for new design workflow best practices and while not specifically quantified, all those surveyed were confident they received a strong positive return on investment.”

For additional information, follow this [link](#) to an archived Webinar where Gantry and ENOVIA discuss the research and its findings—or, to obtain a full copy of the research report, please go to download report.

 [Click here to return to Contents](#)

LEDAS Announced Successful Completion of the First Stage of the Project for Localizing DELMIA Solutions for the Russian Market, Commissioned by Dassault Systèmes

10 November 2008

LEDAS Ltd. announced that Dassault Systèmes, through the partnership between LEDAS and Dassault Systèmes Russia Corp., completed localization of DELMIA Process Engineer — the first stage of the project for localizing the DELMIA product line for computer-aided process planning.

“Localization of software products is mandatory for operating on the Russian PLM market. We understood this when we introduced our main brand — CATIA to the local market, and then localized ENOVIA SmarTeam versions V5R18 è V5R19 in partnership with LEDAS”, said Laurent Valroff, the Director of Dassault Systèmes Russia Corp. “The decision to localize the products from DELMIA portfolio was made in 2008 to meet the needs of our customers. Naturally, we again decided in favor of LEDAS because their experts have all necessary competences in organizing manufacturing processes at extended enterprise coupled with high linguistic proficiency. Their professionally developed vertical localization project, which allows reusing translation memory, excellent support and reasonable pricing have made [LEDAS](#) our obvious localization partner. The quality, timeliness and efficiency of LEDAS work meet the highest standards of Dassault Systèmes, established at the outset of the project and meticulously observed by LEDAS until completion of the project according to the approved schedule”.

The first stage — localizing DELMIA Process Engineer — required compiling the glossary and translating over 70 000 CAD/CAM/CAE/PLM terms and expressions, included in the user interface elements. In coordination with the Russian office of Dassault Systèmes, LEDAS played the key role in managing, executing and delivering the project results. The next stage will be translating the elements of the user interface for other DELMIA modules — in total more than 300 000 words. It is expected that the second stage will be completed by the end of 2008.

 [Click here to return to Contents](#)

Mentor Graphics Collaborates with Lake Washington Technical College to Open PCB Design Laboratory

12 November 2008

Mentor Graphics Corporation announced the opening of the “Mentor Graphics Printed Circuit Board

CIMdata PLM Industry Summary

(PCB) Design Laboratory” at the Lake Washington Technical College’s (LWTC) Kirkland, Washington, campus. The grand opening on Wednesday, November 12, 2008, at 3:00 p.m. will be attended by state officials, community leaders and Mentor representatives.

The primary purpose of the lab will be to teach PCB design methodologies based on the Mentor Expedition® tool flow. The Expedition Enterprise design flow provides users with advanced PCB systems design technologies used by the world’s leading electronics companies, enabling shorter time-to-market, reduced development and product costs and the most competitive end-products. Mentor and LWTC have worked on these courses together for over three years. Under the auspices of Mentor’s Higher Education Program (HEP), Mentor has donated more than \$8M worth of electronic design automation (EDA) software and support to enable students of LWTC to graduate with in-depth knowledge of the latest PCB design methodologies. In addition, Mentor has donated computing hardware with which to conduct the classes. The full-semester PCB curriculum has been conducted three times, and the material developed is available to share with other technical colleges and universities who wish to provide this course.

“The support of Mentor Graphics has allowed our students access to leading-edge tools in PCB layout and design,” said Paul Axtell, dean of industrial technology, LWTC. “Many of the skills students learn in our new laboratory will prepare them to have a direct impact as they enter into the global electronic sector.”

“[Mentor Graphics](#) is committed to the PCB systems design community, including educational facilities such as LWTC, an incubator of the next generation of innovative and talented designers,” said Henry Potts, vice president and general manager, Systems Design Division, Mentor Graphics. “As an EDA technology leader, we understand the importance of all levels of the design flow and see this collaboration as a way to give future engineers greater experience in state-of-the-art methodologies before starting their industrial careers.”

 [Click here to return to Contents](#)

ModuleWorks Offers New 5-Axis book Extract Online

13 November 2008

ModuleWorks a leading supplier of CAD/CAM components for toolpath generation and simulation, announced the availability of a downloadable full chapter from the new book, 'Secrets of 5-Axis machining' on its recently re-launched website, <http://www.moduleworks.com>.

The new book has been authored by 5-Axis machining specialist Karlo Apro, who has 30+ years experience in the CAD/CAM and manufacturing industries and is currently a senior application engineer at CNC Software, the developers of Mastercam.

'Secrets of 5-Axis machining' is written from an unbiased viewpoint and with engineers in mind. It unveils the different techniques and challenges of 5-Axis machining with explanations of the different machine tools, machining strategies and CAD/CAM systems. The book contains many full colour examples and comes with a fully-featured multi-media CD with AVIs and fully interactive ModuleWorks Simulation examples.

Karlo Apro, the author comments "5-Axis machining is a real growth area in manufacturing and many companies are now utilising the technology to remain competitive. My book is based on my own experiences of supporting 5-Axis machining and is designed to minimise the learning curve for new

CIMdata PLM Industry Summary

users and provide advanced tips and tricks for more experienced engineers". He also talks about early response to the book "We had the first run of copies at the IMTS trade show and sold out well before the end of the show and we've had many more enquires since, so I'm delighted with the positive response."

For more information, please visit <http://www.ModuleWorks.com/book>

 [Click here to return to Contents](#)

PDES, Inc. and ProSTEP iViP Set the Seal on Extended Cooperation

11 November 2008

The standardization consortium [PDES, Inc.](#) and the [ProSTEP iViP Association](#) signed a new Memorandum of Understanding (MoU) on September 17, 2008, in Charleston, South Carolina, USA. This is the basis for extending an already successful collaboration. Beside the existing cooperation in the CAx-Implementor-Forum (CAx-IF) the activities concerning long-term archiving shall be concentrated and common pilot projects shall be realized.

The Working Group CAx-IF has been conjointly supported by PDES, Inc. and ProSTEP iViP for around ten years. The group is the instrument to ensure a smooth geometric data exchange via STEP, including continuous quality improvement of the available processors and the support of new functions required by users. In parallel to the increasing demand for solutions on long-term archiving of product data - especially in the aerospace industry - the request for internationally accepted standards addressing this topic is growing as well.

"Our goal is to promote long-term archiving of product data in order to make results available even faster as European (EN) and American (NAS) standards", declared Dr. Michael R. Jahadi, President and Chairman of the PDES, Inc. Executive Board. This would guarantee transatlantic acceptance, thus representing an active contribution for investment protection. Therefore both organizations decided to launch the project group "LOTAR International". Furthermore, common pilot projects shall be conducted.

About PDES, Inc.

The [PDES, Inc.](#) program is an international industry/government/academia consortium committed to accelerating the development and implementation of standards that enable enterprise integration and Product Lifecycle Management interoperability. Its members represent leading manufacturers, U.S. governmental agencies, software vendors, universities, and research organizations. PDES, Inc. supports the Digital Enterprise through the development and implementation of information standards to support Model-based Engineering, Model-based Manufacturing, and Model-based Sustainment. Testing of implementations and data exchange using standards is an integral part of PDES, Inc.

About the ProSTEP iViP Association

The ProSTEP iViP Association is an international branch-specific community comprising leading companies in the automotive and aerospace industries, system vendors and research institutes. The aim of the ProSTEP iViP Association is to find solutions for the challenges facing the manufacturing industry as a result of networked collaboration in a worldwide development network.

A concept based on a coherent, cross-organizational and cross-domain view of data, processes and systems provides a solid foundation for meeting these challenges. The Association's five main areas of focus reflect this approach: process management, system integration, product data standardization,

CIMdata PLM Industry Summary

engineering collaboration and knowledge transfer.

The [ProSTEP iViP Association](#) is headquartered in Darmstadt, Germany, and was founded in October 1993 by 38 industrial companies and a number of system vendors as part of the German STEP initiative. Members of the ProSTEP iViP Association currently include about 200 companies and organizations from 17 nations.

 [Click here to return to Contents](#)

Richard Branson to Keynote SolidWorks World 2009

12 November 2008

WHO: Richard Branson is founder of the Virgin Group, consisting of more than 200 companies employing over 50,000 people in 30 countries and recording more than \$20 billion in 2006 revenues. An entrepreneur since the age of 17, Branson has built a variety of brands into global successes. From record stores to airlines and mobile phone service providers, the Virgin brand epitomizes market leadership, elite customer service, and widespread customer loyalty.

WHAT: SolidWorks World 2009 (<http://www.solidworks.com/swworld>), international user conference and exposition.

WHEN: The keynote will be part of the general session on Feb. 9, 2009, which begins at 8:30 a.m. EST.

WHERE: Walt Disney® World Swan & Dolphin Hotel (<http://www.swandolphin.com/>).

 [Click here to return to Contents](#)

Siemens PLM Software Chairman and CEO Honored for Excellence in Diversity Leadership

November 13, 2008

A strong corporate culture that invests in diversity and inclusion is one of the greatest competitive advantages a company can maintain. On November 13, 2008, Diversity Best Practices (DBP) will host its 15th annual Diversity and Inclusion Leadership Summit & Gala at the JW Marriott in Washington.

For his continuous efforts, Tony Affuso will be recognized at the event as a winner of the prestigious 2008 Diversity Best Practices CEO Diversity Leadership Award. This venerable award pays tribute to champions of corporate diversity for their exemplary leadership and for innovative and positive responses to demographic shifts in the global workforce and marketplace.

CEOs establish the corporate culture and the business agenda. They are the most visible embodiment of their companies' ethics and values. Their passion for diversity spreads throughout every level of their companies, easing the often difficult transition into a world of globalization and constant demographic changes.

“Over the course of the past two and a half years, Siemens diversity practices have attained a higher level of excellence due in no small part to the leadership and personal investment of time and energy on the part of our CEO Champions,” states Joe Santana, Senior Director of Diversity for Siemens in the USA.

Affuso understands that embracing diversity creates happier and more loyal employees and customers. And inclusive business practices help companies relate to the evolving public in a more effective way.

CIMdata PLM Industry Summary

Acceptance of employees, regardless of their background, is not only the right thing to do, it is also critical to business success.

According to Affuso, "The diversity of our people is critical to helping [Siemens PLM Software](#) maintain its leadership position in the PLM industry and its focus on customers. Through our community service initiatives, university grants and training programs we're able to reach people from all walks of life that bring a special depth to our company."

For more information on Siemens' diversity and inclusion initiatives, please visit:

http://www.usa.siemens.com/en/jobs_careers/diversity/index.htm

For more information on the 2008 Diversity and Inclusion Leadership Summit & Gala, please visit:

<http://www.summit.diversitybestpractices.com>.

GO PLM Program

Siemens PLM Software's GO PLM™ initiative leads the industry in the commercial value of the in-kind grants it provides and brings together four complementary community involvement programs focused on academic partnership, regional productivity, youth and displaced worker development and the PACE (Partners for the Advancement of Collaborative Engineering Education) program. GO PLM provides PLM technology to more than 950,000 students yearly at nearly 9,300 global institutions, where it is used at every academic level – from middle schools to graduate engineering research programs. For more information on GO PLM and the partners and programs it supports visit

http://www.plm.automation.siemens.com/en_us/about_us/goplml/index.shtml

 [Click here to return to Contents](#)

Successful Relaunch of OPEN MIND Technologies Website

12 November 2008

New concept, new structure and new design: OPEN MIND Technologies AG has completely revised its website. Detailed product information, up-to-date announcements, user reports and services revolving around CAM for CNC milling are now available to Web users.

More information, more services and more user-friendliness: Internet users visiting <http://www.openmind-tech.com> can enjoy fast access to all the latest information from the CAM specialist. All it takes is a few mouse clicks to read up on OPEN MIND's comprehensive product offerings that range from CAD to CAM solutions for 2D, 3D and 5axis milling through to the Mill/Turn module, postprocessors and hyperDENT, a solution used in dentistry. As part of the information on offer, the multimedia-based website also features videos as live-action films or simulations as well as brochures and other print products for download.

Interesting first-hand reports from various sectors, details of OPEN MIND's attendance at international trade fairs as well as a comprehensive 'News' area for the press round off the Internet presence. As OPEN MIND is active across the globe, all articles naturally appear in English, French, German, and Italian. Further languages are already in the pipeline. OPEN MIND uses a TYPO3-based content management system for its new website.

For more information, visit: <http://www.openmind-tech.com/>

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Surfware Inc. Receives Patent for Engagement Milling (TrueMill®)

11 November 2008

[Surfware Inc.](#) announced that the U.S. Patent and Trademark Office (USPTO) has issued a patent (number 7451013) for its Engagement Milling technology.

“This patent protects the intellectual property and proprietary technology that we have developed over many years” says Stephen Diehl, President and CEO of Surfware. “The mathematics and science behind Engagement Milling are revolutionary, and we have incorporated that technology into our SURFCAM product line as TrueMill®. The patent provides strong protection for current and future versions of TrueMill.”

The principal co-inventors of the Engagement Milling technology are Surfware co-founder Alan Diehl and mathematician Robert (Pat) Patterson.

“Because TrueMill is useful to a wide spectrum of industries,” Diehl states, “Surfware looks forward to providing custom and turnkey solutions, as well as partnering with vendors of complementary technologies.”

 [Click here to return to Contents](#)

Events News

Anark Corporation to Exhibit at 11th Annual Boeing Product Data Exchange Conference

10 November 2008

Anark Corporation announced it will exhibit at the 11th Annual Boeing Product Data Exchange Conference (BPDEC), November 10-13, 2008 at the Arizona Golf Resort, Mesa, Arizona.

Anark Corporation will demonstrate the current platform, Anark Core™ version 2.0 at this year's BPDEC event. This version provides users with expanded conversion, transformation, and automation capabilities to cost-effectively prepare 3D product design data for supply-chain data-exchange, visualization, simulation, and CAE applications. Version 2.0 provides users with the ability to automate 3D product geometry and structure modification, and then export the revised product data into high-precision B-rep and lightweight mesh formats including SolidWorks®, Inventor®, ACIS®, CATIA® V4/V5, Parasolid®, STEP, NX (formerly Unigraphics), IGES, COLLADA, DWF, X3D, and VRML.

"Anark has a long history working with leading manufacturing enterprises such as Boeing, Cessna, Lockheed Martin, and Pratt & Whitney which has given us considerable experience overcoming major obstacles that prevent efficient and cost effective data exchange," said Stephen Collins, CEO of Anark Corporation. "The Anark Core Platform is an automated solution that has been proven to be cost-effective for preparing product data for a wide array of data exchange, collaboration, and visualization applications. We look forward to participating in this important event, discussing the future of the extended supply-chain, and gathering feedback from our most valuable customers."

Anark's Senior Vice President of Product Development, Scott Collins, will present Anark's transformation solutions on Tuesday, November 11 at 1:00PM MST.

Anark Core Version 2.0 will be on display at the 11th annual Boeing Product Data Exchange Conference at the Arizona Golf Resort, Hotel & Convention Center, booth #1, November 10-13, 2008. To schedule a demonstration prior to the show please contact Anark directly at solutions@anark.com.

 [Click here to return to Contents](#)

ASCON to Present KOMPAS-3D V10 at EuroMold 2008

13 November 2008

[ASCON](#) Group, developer and integrator of CAD/AEC/PLM solutions, will take part at one of the biggest world fair – EuroMold 2008. From 3 to 6 December the company will exhibit at its own booth in Hall 6.0 C78 and at collective stand of one of the most popular German-speaking CAD-CAM-CAE-community CAD.DE Hall 6.0. Stand F24. The central place at both stands will offer flagship Mechanical Computer-Aided Design product KOMPAS-3D for Professional Parametric Solid 3D Modelling, 2D Drafting and Design at an affordable and reasonable price.

Visitors and participants of the fair will be able to make an acquaintance with KOMPAS-3D. The latest released version of professional solution, KOMPAS-3D V10, to be presented for testing and trying at both stands by highly qualified ASCON professionals and its German partners. Visitors will be welcomed to compare KOMPAS function and cost with their current CAD system abilities and cost. FREE versions of KOMPAS-3D V10 LT and Demo will be distributed at the fair.

New KOMPAS is not only perfectly suited for effective industrial product development, release of design and drafting documentation, parametric 3D solid modelling, full-scale 2D design and drafting, as well as for photo rendering, piping, motion simulation, kinematic and dynamic analysis, but also is much more handy in use and to learn. New abilities of KOMPAS-3D considerably increase efficiency of designing, quality and speed of new products releases and as a result help the growth of an industrial enterprise as a whole. KOMPAS-3D V10 is the first version of mid-range MCAD solution totally available not only in English, but also and in the German language. For ASCON' customers French, Czech, Polish and Chinese versions of the software are also supplied.

ASCON welcomes you to visit Hall 6.0 Stand C78 at Euromold to acquaint with:

- Showcases and demonstration of software solutions for Mechanical CAD — KOMPAS-3D;
- Tutorials and Trainings of ASCON's highly qualified CAD experts;
- Functional comparison for KOMPAS-3D vs other CAD solutions;
- FREE Light and Demo Versions of New KOMPAS-3D V10;
- Presentation of ASCON Educational Program;
- Special offers for KOMPAS-3D Professional and Educational License.

 [Click here to return to Contents](#)

Geomagic Announces Convergence 2009

12 November 2008

Geomagic has opened registration and issued a call for papers and sponsors for Convergence 2009, the Geomagic user conference that explores new applications, best practices and innovation in digital shape sampling and processing (DSSP). Convergence 2009 will be held February 24-26 in Savannah, Georgia, USA.

The third annual conference will feature speakers from around the world presenting papers on how

CIMdata PLM Industry Summary

Geomagic technology can be used to enable DSSP in a wide range of applications. Among last year's highlights were presentations on virtual manufacturing at Ford that saves millions of dollars; new techniques that are revolutionizing treatment of cleft lips and palates in infants; and aircraft engine inspection at Pratt & Whitney that reduces the time it takes the company to define and analyze features from weeks to less than a day.

Complementing the conference will be an exhibition of the latest 3D scanning technologies, demonstrations of new and emerging Geomagic products, keynotes from leading industry figures, and social events that provide the opportunity to network and learn in an informal environment.

Three Days, Three Dimensions in Savannah

This year's conference – with the theme “Three Days, Three Dimensions” – takes place at the Westin Savannah Harbor Golf Resort and Spa, a four-diamond facility. A 90-second ferry ride across the river delivers guests to downtown Savannah. Famous as the site of the best-selling book *Midnight in the Garden of Good and Evil* and scenes from the movie *Forrest Gump*, Savannah combines a rich history with global sophistication, funky nightlife and fabulous food. Convergence 2009 will culminate in a golf tournament at the Westin Savannah Harbor's The Club course, named one of the four best places to play by *Golf Digest*.

Call for papers and sponsors

Geomagic users interested in speaking at Convergence 2009 should [submit an abstract and biography](#) by December 12. Speakers receive complimentary full registration to Convergence 2009.

A [wide variety of sponsorships](#) are available for Convergence 2009 on a first-come, first-served basis. Convergence 2009 sponsors benefit from interaction with leading buyers of DSSP products in an intimate environment.

Early registration discounts

Attendees can receive a \$300 discount if they register at <http://www.geomagic.com/Convergence2009/> by November 17 and a \$200 discount if they register between November 18 and January 17.

 [Click here to return to Contents](#)

Meeting of PLM Network Thursday, November 13th Featuring Expert Panel on Managing the Flow of Data in an Outsourced Environment

11 November 2008

The recently formed Silicon Valley-based PLM Network, which connects the region's product lifecycle management (PLM) professionals, is holding its next event on Thursday, November 13, 2008 from 4:00 to 7:00 p.m. at Arena Solutions headquarters in Foster City. The event features networking opportunities as well as a panel discussion entitled *Managing the Flow of Data in an Outsourced Environment*, where a group of industry veterans will offer fresh insights on managing product data and communicating with the supply chain to reduce risk and control costs. Arena Solutions will host the PLM Network event at its Foster City headquarters, at 4100 E. Third Ave., Suite 300, Foster City, CA. Cocktails and appetizers will be served. Advance registration is required here:

<http://www.arenasolutions.com/campaigns/website/57GH-plm-network-website-q408-lp.html?ifid=20184>

The PLM Network was founded to provide product manufacturing professionals with a forum to

CIMdata PLM Industry Summary

network, share best practices, consult experts, discuss challenges and share insights with others who have similar interests and job challenges. Moderated by Arena Solutions' co-founder and chief technology officer, Eric Larkin, the panel for the upcoming event consists of some of Silicon Valley's foremost thought leaders in product design and manufacturing, including John Holton, co-founder and senior consultant at Symphony Consulting; Cynthia O'Connell, vice president of operations at Rohati Systems; and Brian Cipresse, co-owner and principal consultant at Tobuka Consulting. For more information on joining the PLM Network, email cwolter@arenasolutions.com or call: 1-866-937-1438

 [Click here to return to Contents](#)

OptiTex Celebrates in India its 20th Year Anniversary

10 November 2008

OptiTex will celebrate its 20th anniversary by being featured at a design seminar in India. The seminar will be held Thursday, November 13, 2008, at 6 p.m., at the Crowne Plaza New Friends Colony Hotel in New Delhi.

“This is a very exciting milestone for us”, states Saar Machtinger, OptiTex's India Director. “It is remarkable to gather 60 of the biggest companies in the Indian textile market to attend one show. Julia Shaw, North America Support Manager will be joining me and Alkesh Tewari, our General Manager in India to host the event”, adds Machtinger.

The seminar will cover Pattern Design Software (PDS), 3D Runway and Nest++2. As with all OptiTex software, PDS was created to be user friendly, intuitive and fast for drafting new and editing existing patterns. 3D Runway provides realistic replication of cloth dynamics on lifelike virtual models, while Nest++2 maximizes cloth usage to eliminate waste as it allows designers to provide precise cost proposals for clients.

“We really enjoy presenting our software in seminars such as this,” concludes Machtinger. “OptiTex has become the CAD tool of choice for training budding designers at major educational institutions and training centers worldwide, and this seminar is especially significant because it also celebrates our 20th anniversary.”

 [Click here to return to Contents](#)

Right Hemisphere to Present the Advantages of a Visual Manufacturing Approach at Boeing Conference

10 November 2008

[Right Hemisphere](#)[®] announced that it will be speaking at the 11th annual Boeing Product Data Exchange Conference this week in Mesa, Arizona. With a theme of “Working Together through a Common Language,” the 2008 Boeing Data Exchange Conference provides a forum for Boeing professionals and their technology suppliers to discuss data exchange and interoperability challenges.

At the conference, Right Hemisphere Solutions Architect Gideon Paull will address attendees at 1:30 p.m. on Wednesday, November 12 in a session on “Infusing 3D Visualization into the Manufacturing Workflow.” Specifically, Mr. Paull will explain how to most effectively use multi-format 3D model data translation and how taking a visual manufacturing approach:

- Leverages 3D design models throughout the manufacturing value chain.

CIMdata PLM Industry Summary

- Facilitates communication and collaboration from design through manufacturing to MRO (maintenance, repair and overhaul).
- Optimizes manufacturing processes with integrated and interoperable applications, systems and data workflows.
- Synchronizes and automates work across disciplines and geographies to manage change and stay lean.
- Establishes a framework for a sound ROI model that supports the visual manufacturing initiative.

 [Click here to return to Contents](#)

TransMagic Exhibits at Boeing Data Exchange Conference

11 November 2008

TransMagic Inc. announced it is exhibiting at Boeing's 11th Annual Product Data Exchange Conference in Mesa, AZ, November 11-13. TransMagic's participation in the conference emphasizes its commitment to providing first-class data exchange solutions to aerospace and other manufacturing industries.

With a theme of "Working Together through a Common Language," the conference provides a forum for Boeing professionals and technology suppliers to discuss data exchange challenges. TransMagic's combination of CAD file translation, geometry repair and visualization, facilitates data exchange and collaboration throughout the enterprise and supply chain.

"Research shows companies spend a significant amount of time and effort translating or re-creating design data, which results in missed launch dates and low design reuse," said Todd Reade, President of TransMagic. "We are focused on understanding the challenges faced by Boeing and in providing solutions to increase productivity, profitability and competitiveness."

Attendees can see TransMagic's latest software which takes advantage of dual and quad core computers through parallel processing. Customers can translate and repair numerous large CAD files in a shorter period of time. Robust visualization with PMI (product manufacturing information) support and advanced repair tools to close gaps or replace missing surfaces will also be shown at the conference's Technical Expo. See TransMagic at booth #20 or visit <http://www.transmagic.com> for a free trial download.

 [Click here to return to Contents](#)

VISTAGY Announces Webinar "Reducing Risk and Cycle Time in Composite Airframe Manufacturing: A Holistic Approach"

11 November 2008

VISTAGY, Inc. announced it will present a Webinar entitled "Reducing Risk and Cycle Time in Composite Airframe Manufacturing: A Holistic Approach." The Webinar is scheduled for 11 AM EST on November 20.

Register for the Webinar at <http://www.vistagy.com/landing/webcast-incat.aspx>

As the use of composites has gone main stream in large, primary aero structures, the aerospace industry is now faced with the challenges of reducing the inherent risks associated with these new materials while

CIMdata PLM Industry Summary

simultaneously improving the quality of their products. As a result, new manufacturing approaches are being developed to reduce the cost and time associated with their fabrication and assembly.

Progressive aerospace firms are meeting these challenges by applying a holistic approach that closely integrates composite and assembly design tools with manufacturing systems, quality planning and the supply chain.

Join us for the second of a two-part series that will explore these issues and suggest some solutions for manufacturing composite airframes. Related quality planning and supply chain concerns will also be discussed, such as how to help subcontractors deliver a product that meets precise specifications.

Further, it will provide information on:

- Developing a seamless flow of data from design to the manufacturing floor
- Consistently supporting multiple manufacturing processes, such as Automated Tape Laying, Automated Fiber Placement, Resin Transfer Molding and Automated Drilling/Fastening
- Optimizing assemblies by providing feedback much later in the design and manufacturing process
- Enacting a flexible digital strategy for the efficient consumption of data sets in the manufacturing plans
- Providing subcontractors with the tools to deliver products that meet precise specifications

In addition to Mr. Garcia, VISTAGY Director of Product and Market Strategy Director John O'Connor and VISTAGY Director of Applications Engineering Peter Ungaro will be presenting.

Register for the Webinar at <http://www.vistagy.com/landing/webcast-incat.aspx>

 [Click here to return to Contents](#)

Financial News

Agilent Technologies Reports Fourth Quarter 2008 Results

November 14, 2008

[Agilent Technologies Inc.](#) today reported revenues of \$1.48 billion for the fourth fiscal quarter ended Oct. 31, 2008, 2 percent above one year ago. Fourth quarter GAAP net income was \$231 million, or \$0.64 per diluted share. Last year's fourth quarter GAAP net income was \$180 million, or \$0.46 per share.

Excluding non-cash amortization and impairment charges, and certain tax benefits, Agilent reported fourth quarter adjusted net income⁽¹⁾ of \$223 million, or \$0.62 per share. On a comparable basis, the company earned \$178 million, or \$0.46 per share, one year ago.

“The world has clearly changed in the past three months,” said Bill Sullivan, Agilent president and chief executive officer. “We are pleased to have performed well in a very dynamic and difficult economic environment. Fourth quarter revenues came in below the low end of our expectations because of weaker than expected Electronic Measurement markets. But, we were able to adjust to rapidly changing conditions, and our adjusted net income(1) came in at the high end of our guidance.”

Fourth quarter adjusted net income⁽¹⁾ of \$0.62 per share was 34 percent above one year ago compared

CIMdata PLM Industry Summary

with a 2 percent increase in revenues.

Organic revenue growth in the Americas was about 4 percent, and local currency revenues were about flat in Asia due to continued weakness in Japan. In Europe, organic revenues were down about 5 percent from one year ago.

Electronic Measurement markets weakened throughout the quarter, with orders down 10 percent from one year ago and revenues off 3 percent. Semiconductor-related markets remained particularly weak. Bio-Analytical markets were more robust, with orders up 8 percent and revenues up 10 percent, and were particularly strong in Asia.

Fourth quarter Return on Invested Capital⁽²⁾ was 31 percent, a new high and six points above last year. Despite the weakening environment, working capital ratios were stable compared with last year's record performance. Cash generated from operations during the quarter was \$258 million. During the period, the company repurchased \$251 million of its common stock and ended the fiscal year with net cash of \$969 million.

Looking to the first quarter of fiscal 2009, Sullivan noted that the full impact of the global financial meltdown on the world economy was far from clear. "Our planning is based on the assumption that an economic downturn in much of the world will continue through mid-2009, and that no geographies or markets will be entirely immune from its impact."

Given these trends, Sullivan said the company expected fiscal first quarter revenues in the range of \$1.34 billion to \$1.39 billion, down 4 percent to flat compared with last year. First quarter adjusted net income is expected to be in the range of \$0.34 to \$0.38 per share, down 6 percent to up 6 percent from one year ago.⁽³⁾

Looking further ahead, Sullivan emphasized the uncertainty in the outlook, but said the company expected 2009 adjusted earnings per share⁽³⁾ to be roughly flat with 2008 results on revenues that are flat to down 5 percent from this year.

"Regardless of the economic environment, we remain committed to creating value for our customers as the world's premier measurement company, and to demonstrating the flexibility and strength of Agilent's operating model throughout the economic cycle," he said. Sullivan noted that the company would provide more details about 2009 expectations at Agilent's annual analyst meeting scheduled for Dec. 9, 2008, in New York City.

Segment Results

Bio-Analytical Measurement (\$ millions except where noted)

	<u>Q4:F08</u>	<u>Q3:F08</u>	<u>Q4:F07</u>
Orders	617	594	571
Revenues	616	566	558
Gross Margin, %	56%	55%	55%
Income from Operations	130	101	106
Segment Assets	1,577	1,549	1,307
Return On Invested Capital ⁽²⁾ , %	31%	25%	29%

Bio-Analytical Measurement orders of \$617 million were up 8 percent during the fourth quarter from

CIMdata PLM Industry Summary

one year ago, with severe weakness in semiconductor-related materials science markets tempering what otherwise would have been 12 percent orders growth from one year ago. Revenues of \$616 million were up 10 percent from last year, and up 13 percent excluding the semiconductor-related business, with organic growth of 5 percent.

Revenues were up double-digit percentages in both Life Sciences and traditional Chemical Analysis. Geographically, revenues were up 12 percent in the Americas, 2 percent in Europe, and 20 percent in Asia, with China particularly strong. There was strength across the major platforms – Gas Chromatography (GCs), Liquid Chromatography (LCs), and Liquid Chromatography / Mass Spectroscopy (LC/MS) – and consumables were up more than 10 percent from one year ago.

Life Sciences revenues of \$276 million were up 17 percent from one year ago, and up 10 percent excluding acquisitions. Spending by Pharma and Biotech customers was up 15 percent despite continued weakness in the Americas and parts of Europe. Sales to the academic and government markets were 22 percent above one year ago, with particular strength in microarrays, which were up over 40 percent.

Chemical Analysis revenues of \$340 million were up 5 percent from last year, with weakness in semiconductor-related materials science markets tempering what otherwise would have been 10 percent growth in Chemical Analysis revenues. Demand from petrochemicals remained quite robust, up 15 percent, and food safety was 14 percent ahead of one year ago. From a platform perspective, demand was particularly strong for the new 6460 Triple Quad LC/MS.

Fourth quarter segment income from operations of \$130 million was \$24 million above last year on a \$58 million increase in revenues, an attractive 41 percent incremental. Gross margins were up about 1 point from last year, while operating margins, at 21 percent, were 2 points higher than one year ago. Segment Return On Invested Capital⁽²⁾ also improved 2 points to 31 percent.

Electronic Measurement (\$ millions except where noted)

	<u>Q4:F08</u>	<u>Q3:F08</u>	<u>Q4:F07</u>
Orders	821	793	912
Revenues	865	878	888
Gross Margin, %	58%	57%	56%
Income from Operations	142	135	111
Segment Assets	2,049	2,090	2,025
Return On Invested Capital ⁽²⁾ ,%	32%	27%	22%

Fourth quarter Electronic Measurement orders of \$821 million were 10 percent below last year, with particular weakness in semiconductor, electronic manufacturing, and network monitoring. Revenues of \$865 million were down 3 percent, with the Americas up 2 percent, Europe down 2 percent, Japan off 15 percent and other Asia down 3 percent.

General Purpose Test revenues of \$499 million were down 6 percent from last year because of a nearly 50 percent decline in the semiconductor-related parametric test business. Aerospace / defense and other general purpose markets were about flat with last year. Communications Test revenues of \$366 million were up 3 percent, with network monitoring down 6 percent, wireless manufacturing down 2 percent, and other communications markets up 8 percent from one year ago.

Fourth quarter segment income from operations of \$142 million was up \$31 million from last year

CIMdata PLM Industry Summary

despite a \$23 million drop in revenues. Gross margins were improved about 1 point from last year, while operating expenses dropped the equivalent of three points, resulting in an operating margin on 16 percent, 4 points above one year ago. Higher profitability and aggressive asset management enabled segment ROIC(2) to improve 10 points to 32 percent.

About Agilent Technologies

Agilent Technologies Inc. (NYSE: A) is the world's premier measurement company and a technology leader in communications, electronics, life sciences and chemical analysis. The company's 20,000 employees serve customers in more than 110 countries. Agilent had net revenues of \$5.8 billion in fiscal 2008. Information about Agilent is available on the Web at <http://www.agilent.com>.

Agilent's management will present more details on its fourth quarter FY2008 financial results on a conference call with investors beginning today at 5:30 a.m. (Pacific). This event will be webcast live in listen-only mode. Listeners may log on at www.investor.agilent.com and select "Q4 2008 Agilent Technologies Inc. Earnings Conference Call" in the "News & Events -- Calendar of Events" section. The webcast will remain available on the company's Web site for 90 days.

A telephone replay of the conference call will be available from 7:30 a.m. (Pacific) today through Nov. 21, 2008. The replay number is +1 888 286-8010; international callers may dial +1 617 801-6888. The passcode is 17246542.

Forward-Looking Statements

This news release contains forward-looking statements as defined in the Securities Exchange Act of 1934 and is subject to the safe harbors created therein. The forward-looking statements contained herein include, but are not limited to, information regarding Agilent's future revenues, earnings and profitability; the future demand for the Company's products and services; and guidance for the fiscal first quarter and full fiscal year 2009. These forward-looking statements involve risks and uncertainties that could cause Agilent's results to differ materially from management's current expectations. Such risks and uncertainties include, but are not limited to, unforeseen changes in the strength of our customers' businesses, and unforeseen changes in the demand for current and new products and technologies.

In addition, other risks that Agilent faces in running its operations include the ability to execute successfully through business cycles while it continues to implement cost reductions; the ability to meet and achieve the benefits of its cost-reduction goals and otherwise successfully adapt its cost structures to continuing changes in business conditions; ongoing competitive, pricing and gross-margin pressures; the risk that our cost-cutting initiatives will impair our ability to develop products and remain competitive and to operate effectively; the impact of geopolitical uncertainties and global economic conditions on our operations, our markets and our ability to conduct business; the ability to improve asset performance to adapt to changes in demand; the ability to successfully introduce new products at the right time, price and mix; and other risks detailed in Agilent's filings with the Securities and Exchange Commission, including our Quarterly Report on Form 10-Q for the fiscal quarter ended July 31, 2008. Forward-looking statements are based on the beliefs and assumptions of Agilent's management and on currently available information. Agilent undertakes no responsibility to publicly update or revise any forward-looking statement.

(1) Adjusted net income and adjusted net income per share are non-GAAP measures. Each of these measures is defined to exclude primarily the impacts of restructuring and asset impairment charges, business separation costs, non-cash intangibles amortization as well as gains and losses from the sale of

CIMdata PLM Industry Summary

investments and disposals of businesses net of their tax effects. A reconciliation between adjusted net income and GAAP net income is set forth on page 5 of the attached tables along with additional information regarding the use of this non-GAAP measure.

(2) Return On Invested Capital is a non-GAAP measure and is defined as income (loss) from operations less other (income) expense and taxes, annualized, divided by the average of the two most recent quarter-end balances of assets less net current liabilities. The reconciliation of ROIC can be found on page 6 of the attached tables, along with additional information regarding the use of this non-GAAP measure.

(3) Adjusted net income per share as projected for Q109 and full year 2009 is a non-GAAP measure which excludes primarily the impacts of future restructuring and asset impairment charges and non-cash intangibles amortization. Most of these excluded amounts pertain to events that have not yet occurred and are not currently possible to estimate with a reasonable degree of accuracy. Therefore, no reconciliation to GAAP amounts has been provided. Future amortization of intangibles is expected to be approximately \$14 million per quarter.

Further details including chart are available on, corporate citizenship and executive news is available on the Agilent site at www.agilent.com.

 [Click here to return to Contents](#)

Avatech Solutions Maintains Profitability in Fiscal 2009 with Net Income for First Quarter

November 14, 2008

[Avatech Solutions, Inc.](#), the nationwide technology experts for design, engineering, and facilities management, announced financial results for its fiscal first quarter ended September 30, 2008.

For the first quarter of fiscal 2009 the Company reported revenues of \$10.8 million, compared to \$12.4 million in the prior-year quarter. Selling, general & administrative (SG&A) expenses decreased to \$4.4 million in the three months ended September 30, 2008, compared to \$4.6 million, in the same period of the prior fiscal year.

Net income for the three months ended September 30, 2008 was \$154,000, or \$0.01 per fully diluted share, compared to net income of \$489,000, or \$0.02 per fully diluted share, in the same period in the prior year. Adjusted EBITDA (as defined) decreased to \$448,000 in the first quarter of fiscal 2009, from adjusted EBITDA of \$959,000 in the prior year period.

George Davis, President and Chief Executive Officer of Avatech Solutions, commented, “The unprecedented macroeconomic pressures that have weakened the building and manufacturing sectors, significantly impacted our performance for the September 2008 quarter. During this time of uncertainty, our customers are faced with considerable challenges that are limiting their ability to move forward with technology upgrades and engineering support services. Due to our efforts over the last year to improve our fundamentals with an emphasis on expense and cash management we were able to deliver a sound quarter in the face of a difficult economic environment. This quarter’s highlights include delivering our fifth consecutive quarter of profitability, generating free cash flow and maintaining a sound balance sheet with \$4.3 million in cash with no debt. We are maintaining stability and market share in our business due to the efforts of our dedicated software sales and engineering services teams, and a diverse client base.”

“In addition, over the past few quarters we have looked to diversify our revenue by dedicating more

CIMdata PLM Industry Summary

resources towards selling professional services in the Architecture, Engineering and Construction (AEC) and Manufacturing verticals. We expect these efforts to provide incremental support for our business model on a going forward basis. It is our goal to prudently leverage our strong financial position during this difficult market environment to ensure that we are uniquely positioned to come out strong when the economy eventually rebounds,” concluded Mr. Davis.

Conference Call Information

Avatech Solutions will hold a conference call to discuss its first quarter results at 11:00 a.m. ET on November 14, 2008. The dial-in number for the conference call is (888) 680-0865 (Domestic) or (617) 213-4853 (International), and enter the passcode (91800494). A replay of the call will also be available through November 21, 2008 and can be accessed by dialing (888) 286-8010 (Domestic) or (617) 801-6888 (International), and enter the passcode (17476623).

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

Note Regarding Use of Non-GAAP Financial Measure

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

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

Avatech believes this non-GAAP measure provides useful information to both management and investors by excluding certain expenses that may not be indicative of its core operating results. These measures should be considered in addition to results prepared in accordance with GAAP, but should not be considered a substitute for, or superior to, GAAP results. The non-GAAP measure included in this press release has been reconciled to the GAAP results in the accompanying table.

 [Click here to return to Contents](#)

AVEVA Group plc: Interim Results for the Six Months Ended 30 September 2008

11 November 2008

AVEVA Group plc announced its unaudited results for the six months ended 30 September 2008.

Highlights

- Strong growth in revenue, profit and cash reflecting the leadership position of our products in marine, oil and gas and power markets
- Revenue increased by 32% to £74.8 million (2007 – £56.8 million)
- Recurring revenue up 43% to £40.9 million (2007 – £28.6 million)
- Investment in Research and Development up 26% to £12.9 million (2007 - £10.2 million)

CIMdata PLM Industry Summary

- Adjusted profit before tax increased by 67% to £31 million (2007 – £18.6 million)*
- Profit before tax up 73% to £29.2 million (2007 – £16.9 million)
- Adjusted basic earnings per share up 66% to 33.11 pence (2007 – 19.97 pence)
- Basic earnings per share up 74% to 30.50 pence (2007 – 17.50 pence)
- Interim dividend increased by 73% to 2.86 pence (2007 – 1.65 pence)
- Excellent cash flow with net cash at the period end of £101 million (2007 – £54.5 million)

Commenting on the outlook, Chairman Nick Prest said:

“AVEVA is one of the leading providers of engineering IT solutions to many of the world’s largest companies in the Plant, Power and Marine businesses. These solutions help our customers from early stage concept and design through to operation and maintenance. Whilst our products and the markets in the last few years have been focused on the early stages within the project lifecycle, more recent developments and opportunities relate to the management and maintenance of these high value assets throughout the production cycle. Our existing relationships and product offering position us well to benefit from this next stage. We acknowledge that recent and rapid developments within the world economy have created less certainty about future demand and whilst there has been little impact on our current trading we continue to monitor the situation closely.”

* Adjusted profit before tax is before amortisation of intangibles excluding software, share-based payments and adjustment to the carrying value of goodwill.

CHAIRMAN’S STATEMENT

Overview

The excellent results achieved for the six months ended 30 September 2008 again demonstrate AVEVA’s core strengths in the markets we serve, where our technology, industry knowledge, geographical presence and understanding of customers’ developing requirements position us as a market leader. The performance in the first half was driven by the continuing demand for large, complex projects across all our major markets. Our investment in new products and our ability to service these through our regional network of offices will continue to keep us close to the developing requirements of our customers.

Financials

AVEVA’s strong trading in the first six months has seen turnover increase 32% to £74.8 million (2007 - £56.8 million). The pull through of recurring licence fees generated in prior periods has seen recurring fees increase 43% over last year. Recurring revenue amounted to 55% of total revenue, broadly in line with previous periods. Initial fees amounted to £28.8 million (2007 - £24.4 million), and service revenue totalled £5.1 million (2007 - £3.8 million).

Adjusted profit before tax increased by 67% to £31 million (2007 - £18.6 million), which is before amortisation of intangibles, share-based payments and adjustment to goodwill of £1.8 million (2007 - £1.7 million). Adjusted earnings per share amounted to 33.11 pence, an increase of 66% on prior year (2007 - 19.97 pence). Profit before tax was £29.2 million (2007 - £16.9 million) resulting in an increase in basic earnings per share of 74% to 30.50 pence (2007 - 17.50 pence).

Operating margins increased by 9% to 37% over the same period last year. The improvement in margins as in previous periods reflects the operational leverage achieved from strong sales growth and in

CIMdata PLM Industry Summary

particular from increases in initial licence fees. At the same time Research and Development expenditure has increased by 26% to £12.9 million, spent on both enhancing existing products and developing new products that will help generate future revenue growth.

Cash

AVEVA continues to be very cash generative with strong cash flow in the period resulting in net cash of £101 million (2007 - £54.5 million).

Dividend

Given the strong first half performance the Board is declaring an increased interim dividend of 2.86 pence per share (2007 - 1.65 pence). Payment will be made on the 9 February 2009 to all shareholders on the register on 9 January 2009.

Operating Review

The Group continued to see strong trading across all its markets and geographies in the first half of the year.

Asia Pacific

Sales in Asia Pacific continued to grow strongly with good performances across all regions but in particular in China, India and Australia. Initial fees remained the predominant form of licensing in Asia. Recurring revenue increased by 58% which helped deliver overall growth in sales of 31% to £31.1 million. Sales success was achieved in all our major market sectors and from both existing and new customers. Opportunities in the region remain good as requirements for Power remain high and developments in the Marine markets have continued, with growing emphasis being placed on lifecycle management tools such as Central Eastern and Southern Europe (CES) Another period of sustained growth in our CES region, driven by new customer wins and increased orders from our existing user base, delivered revenue of £22 million, up 46% on prior year (2007 - £15.1 million). We have continued to see high levels of activity from within the Power market and Russia has been one of our largest growth contributors. New opportunities within Southern Europe have also been a factor in our success in the half year. Our success in the nuclear market within this region over the last few years has continued with customers now looking to use our products in new territories with local partners, thereby providing an opportunity for AVEVA to grow its customer base.

Western Europe, Middle East and Africa (WEMEA)

WEMEA is our most mature market and sales to existing customers remain the primary driver for growth within this region. Our customers remain very busy but a shortage of skilled resources continues to be a constraining factor in the industry, and this has restricted short term opportunities. In the first six months of the year our investment has been focused on developing our capabilities to deliver new products and services to meet our customer requirements. Revenue for the period amounted to £11.4 million (2007 - £10.8 million) with recurring revenue amounting to £9.4 million, 82% of total revenue (2007 - £8.7 million and 80% respectively).

Americas

We saw good growth from the Americas in the first half of the year driven by new product sales to new customers and growing momentum in Canada and South America. The Americas market has remained robust and linked to global demands, but it is also a very competitive market, being the home market for many of AVEVA's competitors. We continue to expand our presence in both Canada and South

CIMdata PLM Industry Summary

America and have recently opened a direct sales office in Brazil. South America presents opportunities to serve owner operators as they look to manage their high value plants. Total revenue in the Americas grew by 44% to £10.4 million (2007 - £7.2 million) Overall, sales opportunities remain positive across all our regions and markets but we expect to see customers increasingly purchase the tools that help manage the whole lifecycle of the assets they own (PLM) and not just the design phase. Our expanding suite of products positions us well to benefit from these evolving customer requirements.

Research and Development

The focus for our development efforts has continued to be on both enhancements to existing products and new products which will help our customers with the key issues involved in managing large complex projects where skilled resources are limited and management of these assets through the lifecycle becomes ever more important. In particular during the last six months we have seen new releases of AVEVA NET offering integrated operations capability and AVEVA Global allowing customers to maximise productivity with multi-site design.

Outlook

AVEVA is one of the leading providers of engineering IT solutions to many of the world's largest companies in the Plant, Power and Marine businesses. These solutions help our customers from early stage concept and design through to operation and maintenance. Whilst our products and the markets in the last few years have been focused on the early stages within the project lifecycle, more recent developments and opportunities relate to the management and maintenance of these high value assets throughout the production cycle. Our existing relationships and product offering position us well to benefit from this next stage. We acknowledge that recent and rapid developments within the world economy have created less certainty about future demand and whilst there has been little impact on our current trading we continue to monitor the situation closely.

 [Click here to return to Contents](#)

Cadence Filed Form 12b-25: Notification of Late Filing with respect to its Quarterly Report on Form 10-Q

7 November 2008

Cadence Design Systems, Inc. announced that it has filed a Form 12b-25, Notification of Late Filing, with the Securities and Exchange Commission relating to its Quarterly Report on Form 10-Q for the quarter ended September 27, 2008. The delay in the filing of the Form 10-Q is related to the previously announced investigation being conducted by the Audit Committee of Cadence's Board of Directors and its independent counsel. Cadence will file the Form 10-Q as soon as practicable.

As disclosed in its Form 12b-25, Cadence expects to report third quarter 2008 revenue of approximately \$235 million to \$245 million, compared to revenue of \$400.9 million reported for the same period in 2007. [Cadence](#) expects to recognize a GAAP net loss of approximately (\$0.67) to (\$0.65) per share on a diluted basis in the third quarter of 2008, compared to a GAAP net income of \$0.24 per share on a diluted basis in the same period in 2007. The anticipated GAAP net loss per share on a diluted basis is greater than Cadence previously estimated principally because the anticipated number now takes into account the third quarter restructuring charges for Cadence's recently announced restructuring and an increased provision for income tax based on Cadence's repatriation of previously untaxed earnings from foreign subsidiaries. The anticipated results for the third quarter of 2008 on both a GAAP and non-GAAP basis as reported in this release do not include the impact of any changes to Cadence's financial

CIMdata PLM Industry Summary

statements that may arise from the previously announced investigation being conducted by the audit committee.

Cadence expects net loss per diluted share using the non-GAAP measure defined below to be in the range of \$(0.09) to \$(0.07) for the third quarter of 2008. In addition to using GAAP results in evaluating Cadence's business, management believes it is useful to measure results using a non-GAAP measure of net income or net loss, which excludes, as applicable, amortization of intangible assets, stock-based compensation expense, in-process research and development charges, certain termination and legal costs, costs related to Cadence's withdrawn proposal to acquire Mentor Graphics Corporation and losses on the sale of Mentor Graphics Corporation shares, integration and acquisition-related costs, gains or losses and expenses or credits related to non-qualified deferred compensation plan assets, executive severance payments, restructuring charges and credits, losses on extinguishment of debt, equity in losses (income) from investments and write-down of investments. Non-GAAP net income or net loss is adjusted by the amount of additional taxes or tax benefit that the company would accrue if it used non-GAAP results instead of GAAP results to calculate the company's tax liability. Investors and potential investors are encouraged to review the reconciliation of non-GAAP financial results with their most direct comparable GAAP financial results below.

 [Click here to return to Contents](#)

Cimatron's Q3/2008 Results Release Scheduled for November 17th

10 November 2008

Cimatron Limited announced that it will be releasing its Q3/2008 financial results on Monday, November 17th, 2008, after US markets close.

Cimatron's management will host a conference call on Tuesday 18th, at 9:00 EST, 16:00 Israel time. On the call, management will review and discuss the results, and will answer questions by investors.

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

USA: +1-866-3455-855

Israel: 03-9180609

International: +972-3-9180609

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

 [Click here to return to Contents](#)

Mentor Graphics Lowers Fiscal 2009 Guidance and Announces Fiscal Third Quarter Conference Call

11 November 2008

Mentor Graphics Corporation announced that slowing customer activity has reduced the company's outlook for the second half of the fiscal year. Revenue is expected to be about \$185 million for the fiscal third quarter ending October 31, 2008 with a non-GAAP loss of approximately \$.05 per share. The current estimate of the GAAP loss per share is approximately \$.80, which includes a GAAP tax

CIMdata PLM Industry Summary

provision for the third quarter of approximately \$.50 per share. The tax provision is abnormally high as it includes recapture of tax benefits previously claimed in prior quarters as well as the continuing effect of tax expense in non-US jurisdictions.

For the fiscal fourth quarter ending January 31, 2009, the company now expects revenues of approximately \$270 million, non-GAAP earnings per share of about \$.55, and GAAP earnings per share of about \$.60. For fiscal 2009 the company expects full year revenues of approximately \$815 million, non-GAAP earnings per share of about \$0.40 and a GAAP loss per share of about \$.65.

“Typically, our customers had been negotiating contract renewals a quarter or two before their expiration,” said Walden C. Rhines, chairman and CEO of Mentor Graphics. “In this economic environment customers are now waiting until the contracts come closer to expiration to renew. We expect a number of sizeable contracts to renew in the next several quarters, which should lead to a stronger fiscal 2010 than fiscal 2009.”

Given these pending contract renewals, the company anticipates fiscal first quarter 2010 revenues of \$200 to \$210 million, non-GAAP earnings per share between \$.05 and \$.10, and GAAP loss per share between \$.01 and \$.06.

“These contract renewal delays should produce greater business linearity in fiscal 2010,” said Gregory K. Hinckley, president of Mentor Graphics. “Excluding acquisitions, non-GAAP expenses for the quarter were less than third quarter last year as a result of reductions in staffing undertaken earlier in the year, reduced incentive compensation and an improving foreign exchange environment.”

Mentor Graphics will release financial results for its third fiscal quarter as well as revised fiscal 2009 guidance, on Wednesday, November 19 at 5:00 a.m. Pacific Time. Following the release, Mentor will host a live webcast to discuss the third quarter results, beginning at 5:30 a.m. Pacific Time.

What: Mentor Graphics live webcast of Q3 Fiscal Year 2009 financial results

When: Wednesday, November 19 at 5:30 a.m. Pacific Time.

Webcast: www.mentor.com/company/investor_relations

The company emphasized that the foregoing results are preliminary and are subject to adjustments upon final closing of financial results and completion of the quarterly review by independent accountants.

 [Click here to return to Contents](#)

Valor Announces Q3/2008 and Nine Months Results

November 12, 2008

Valor Computerized Systems Ltd. [Prime Standard: VCR], a global provider of productivity improvement software solutions for the printed circuit board industry, announced today its financial results for the period ending September 30, 2008.

Revenues in the first nine months of 2008 were \$31.4 Million, similar to the revenues in the first nine months of 2007.

Operating income for the first nine months of 2008, not including issuance costs in amount of \$1.4 Million and a one-time expense of \$0.7 Million related mainly to the retirement of the previous CEO, was \$2.8 Million, or 9% of revenues, representing a growth of 46% in operating margin as compared with the first nine months of 2007.

CIMdata PLM Industry Summary

Net income for the first nine months of 2008 not including the issuance costs and one-time expense, net of tax, was \$2.7 Million, or 8.6% of revenues, representing a growth of 23% in net profit as compared with the first nine months of 2007.

Earnings per Share (diluted) in the first nine months of 2008 was \$0.06, as compared with \$0.10 in the parallel period of the previous year.

Revenues in the third quarter of 2008 were \$10 Million, a decrease of 5% as compared with \$10.6 Million in the third quarter of 2007.

In the third quarter of 2008, EBITDA before issuance costs was \$1.3 Million, as compared with \$1.4M in the third quarter of 2007.

Net loss including issuance costs was \$0.7 Million in the third quarter of 2008, as compared with a net profit of \$0.7 Million in the third quarter of 2007.

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

	1-9 / 2008 (Unaudited)	1-9 / 2007 (Unaudited)	% Change	Q3 / 2008 (Unaudited)	Q3 / 2007 (Unaudited)	% Change
Product Sales	17,637	18,826	(6.3)%	5,242	6,200	(15.5)%
Maintenance Income	13,725	12,582	9.1%	4,759	4,356	9.3%
Total Revenues	31,363	31,408	(0.1)%	10,001	10,556	(5.3)%
Gross Profit	26,735	27,082	(1.3)%	8,510	8,956	(5.0)%
Issuance Costs	1,422	-	100%	1,422	-	100%
One Time Expense	731	-	100%	-	-	-
EBITDA*	2,273	3,457	(34.3)%	(158)	1,356	(111.7)%
EBIT*	671	1,936	(65.4)%	(674)	786	(185.7)%
Net Profit*	1,333	2,199	(39.4)%	(748)	743	(200.7)%
EPS in US\$ (diluted)	0.06	0.10	(40.0)%	(0.04)	0.03	(233.0)%
Shareholder's Equity	45,908	43,554	5.4%	45,908	43,554	5.4%
Total Assets	57,740	56,537	2.1%	57,740	56,537	2.1%
Research & Development	8,572	10,047	(14.7)%	2,750	3,152	(12.8)%
Employees (Period End)	256	264	(3.0)%	256	264	(3.0)%

* Including issuance costs, and a one-time expense related mainly to the retirement of the former CEO, totalling \$2.2 Million

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

“The industry is rapidly catching up with the global economic conditions,” said Dan Hoz, Valor’s CEO.

CIMdata PLM Industry Summary

“and we are beginning to witness a slowdown in the assembly market in the form of delays in orders from electronics manufacturers, although we have not seen any cancellations. Overall, despite market conditions and negative exchange rate differences, the company still continues to show stability. Our revenues in the design market remain stable, and our operating and net profit margins in the first nine months, not including issuance costs and a one-time expense, represent an increase over 2007 figures.”

“Like many other companies, we are using this time to prepare ourselves for breaking forward once the crisis is behind us - on one hand, strengthening our infrastructure and focusing our portfolio on products that are more mandatory for the industry and are more cost-savings-oriented, and on the other hand, exploring various cost saving measures, whose effect should prove to be even greater once the crisis is over than it would now. In parallel, we continue to seek expansion of our product distribution via profitable channels such as OEM agreements, as well as pursue our M&A-based growth strategy, relying on our strong cash position and financial firmness.”

“Despite market conditions, we have confidence in our long-term growth and profitability and in our ability to come out of this downturn stronger, and we manage our strategic plans accordingly,” Hoz concluded.

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

Risks Regarding Forward Looking Statements

Certain statements included herein are forward-looking in nature and, accordingly, are subject to risks and uncertainties. Such forward-looking statements include statements regarding the size and timing of the proposed offering. These forward-looking statements are only predictions based on our current expectations and projections about future events. Many factors, including those indicated in the press release, as well as general market conditions, could impact the realization of these forward-looking statements. Valor wishes to caution prospective investors not to rely on any such forward-looking statements as predictions of future events. Valor does not undertake, and specifically disclaims any obligation, to update any forward-looking statements, which speak only as of the date made. For additional information, see our website at: www.valor.com/fls

 [Click here to return to Contents](#)

Implementation Investments

A Greener Recipe for Clean Drinking Water; Trojan Technologies uses SolidWorks 3D CAD and Simulation Software to Develop Disinfection Systems Based on UV Light

10 November 2008

Which would you prefer in your drinking water: bleach or light?

That’s the easy choice made every day by residential, commercial, and municipal customers of Trojan Technologies, a Canadian company whose systems disinfect drinking water with ultraviolet light. More than 60 designers and engineers at Trojan use SolidWorks® 3D CAD software and SolidWorks Flow Simulation software from Dassault Systèmes SolidWorks Corp. (DS SolidWorks) to custom-design and configure systems for each client.

“We’re not adding anything to the water, we’re just shining light through it to alter the DNA structure of

CIMdata PLM Industry Summary

harmful microorganisms like E.coli, Giardia, and Cryptosporidium, effectively destroying the reproductive systems in the cells,” said Jason Cerny, one of the company’s senior mechanical designers. “SolidWorks and SolidWorks Flow Simulation software are important tools in this endeavor, letting us create better systems faster in more competitively sized packages. We no longer have to leave extensive room for error and build projects a little larger than they need to be. We’ve also dramatically reduced the number of prototypes we need to build – prototypes that can exceed \$50,000 for municipal systems – as well as the errors that can crop up in projects designed in 2D.”

Based in London, Ontario, Trojan Technologies used SolidWorks to design and build the largest UV disinfection system in the world, made up of 56 water disinfection units, for the New York City Department of Environmental Protection. The facility is capable of treating up to 2.2 billion gallons of water each day.

Trojan claims the largest installed base of UV systems in operation on the planet. UV rays penetrate bacteria and viruses, destroying their ability to function and reproduce. The process is simple but effective, destroying harmful microorganisms without adding chemicals or changing the water's taste or odor.

[Trojan](#) has used SolidWorks for a decade and, according to Cerny, now needs to build only one-third of the costly prototypes it once did. He credits the effectiveness of SolidWorks Flow Simulation software and the accuracy of 3D CAD for the improvement. Trojan has recently begun using SolidWorks Enterprise PDM software to accelerate design by working efficiently around the clock, with the implementation of an offshore engineering team in Bangalore, India.

“Safe, clean drinking water is one of the most important things in the world,” said Efrat Ravid, director of marketing and alliances for Dassault Systèmes SolidWorks Corp. “It’s reassuring to know that Trojan is driving the technology forward and using SolidWorks software to do that.”

Trojan relies on authorized [SolidWorks](#) reseller [Javelin Technologies](#) for ongoing software training, implementation, and support.

 [Click here to return to Contents](#)

Alenia Aeronautica Selects Fiper from SIMULIA for Enterprise-Wide Simulation Integration and Collaboration

11 November 2008

Dassault Systèmes (DS) announced that [Alenia Aeronautica](#), "a Finmeccanica Company", a major commercial and defense aeronautics supplier, has chosen Fiper from SIMULIA as a key component of their enterprise-wide simulation process integration and collaboration framework to be developed under the Alenia Networked Enterprise Transformation (AleNET) initiative, which has been created to accelerate Alenia’s product development and innovation.

Within the scope of the Virtual and Physical Prototype Simulation stream of the AleNET project, Fiper will be used and integrated in the Alenia VPPS platform to capture and manage simulation workflows used across the multi-disciplinary design domain. SIMULIA will work with Alenia engineers and third-party partners, including Exemplar s.r.l., to implement the project.

"We selected Fiper for its capability to efficiently capture simulation workflows and its open component architecture that allows us to integrate a variety of in-house and commercial analysis systems," said Vittorio Selmin, ALENET VPPS leader, Alenia Aeronautica. "Fiper enhances our VPPS vision to

CIMdata PLM Industry Summary

leverage the broader scope of process integration within the framework of Simulation Lifecycle Management and enterprise-wide PLM”.

"Companies such as Alenia are demanding open architecture solutions that allow them to make simulation an integral, decision-driving practice within their product development process," said Ken Short, VP Strategy and Marketing, [SIMULIA](#), Dassault Systèmes. "The selection of Fiper by Alenia confirms our strategy of providing robust Simulation Lifecycle Management solutions that help companies improve efficiency while reducing the time and cost associated with bringing high-quality products to market."

As part of SIMULIA's Simulation Lifecycle Management portfolio, Fiper provides an open engineering framework to integrate, automate, and manage simulation processes and computing resources.

 [Click here to return to Contents](#)

ASUS Chooses Altair HyperWorks Suite for Consumer Product Engineering

10 November 2008

[Altair Engineering, Inc.](#) announced that Taiwan-based ASUSTeK Computer, Inc., a multinational manufacturer of consumer electronics, has selected the HyperWorks CAE solution for product engineering.

[ASUS](#) is well-known as a premier supplier of computer facilities. A third of all PCs manufactured worldwide in 2007 were powered by ASUS motherboards. ASUS also continues to develop 3C (computer, communication, and consumer electronics) products, such as VGA cards, laptops, servers, PDAs, mobile phones, networking technology, LCD TV, monitors, and multimedia systems.

ASUS engineers have used Altair HyperWorks for pre- and post-processing on both its own-brand and OEM product designs since the ASUS CAE team began operations. In 2007, ASUS spun off the OEM division, which retained the existing HyperWorks software licenses.

In 2008, ASUS evaluated available CAE solutions for its own CAE product design team. Once again, ASUS selected Altair HyperWorks for its functionality and productivity benefits after comparing software from other vendors. In making the choice, ASUS stressed that HyperWorks gives them incredible mesh quality and time saving that will allow ASUS to shorten its product develop time and gain a substantial competitive advantage over its competitors.

"We are very pleased to continue our working relationship with ASUS," said Altair China's Director of Marketing and Alliances Jiyuan Ye, "It's good to see ASUS expanding, and we're happy to continue satisfying their needs for effective CAE tools through our sales partner APIC."

About APIC

[APIC](#) (Alpha Precision Instrumentation Corp.), a Taiwan Altair sales partner founded in 1977, worked closely with ASUS on product demonstrations and deployment. APIC provides software sales, training, consultation and post-installation service. APIC maintains a close support relationship with ASUS.

 [Click here to return to Contents](#)

Autodesk and CDW Government, Inc. Partner to Revitalize Iraqi Manufacturing Industry

11 November 2008

CIMdata PLM Industry Summary

[Autodesk, Inc.](#) and CDW Government, Inc. announced they have partnered with the U.S. Department of Defense (DoD) to provide software and hardware solutions to the Iraqi-based manufacturing firm Heavy Engineering Equipment State Company (HEESCO).

The technology provided by Autodesk and [CDW-G](#) will help HEESCO's engineers bring their technology infrastructure up-to-date, enabling more efficient design and production of commercially used electromechanical industrial equipment and contributing to the Iraqi government's articulated goal of transitioning the Iraqi economy from a state-owned to an open-market model.

The DoD's decision to assist in providing the software and hardware came after an evaluation of 57 Iraqi businesses that were considered best suited to help the country achieve long-term economic growth and stability. The project was sponsored by the Task Force to Improve Business and Stability Operations in Iraq, which works to reduce unemployment and bolster the Iraqi economy.

HEESCO will use AutoCAD software and Autodesk Inventor software to better automate its design process by migrating paper and pencil drafting documents into 3D digital models. Inventor software – the foundation of the Autodesk solution for Digital Prototyping – will enable the company to virtually design and simulate machinery, car parts and heavy equipment before the product is built, saving both time and money from costly re-designs. The company will also be able to more easily share designs among themselves and with customers.

“Autodesk is one of the first U.S. technology companies to provide software to a company that will help the Iraqi people rebuild their manufacturing industry,” said Bill Goodson, vice president, Autodesk Government. “HEESCO joins companies from around the world who use Autodesk solutions to quickly bring their designs to life.”

HEESCO will modernize its data center and desktops with HP and APC hardware provided by CDW-G that will maximize the engineers' design capabilities, streamline data center management and provide storage functionality. CDW-G, in cooperation with the Task Force, configured, installed and shipped an APC NetShelter® server rack complete with an APC Smart-UPS® (Uninterruptible Power Supply) and an HP ProLiant DL320 Storage Server backed up by an HP StorageWorks Ultrium 960-FC tape library. The server supports 40 HP xw4600 Workstations equipped with 80 GB hot-swappable hard drives and Intel Core 2 Duo processors for optimal flexibility and power. The CDW-G-configured workstations also include the Microsoft XP operating system, as well as high-end NVIDIA Quadro graphics boards and 20-inch LCD monitors.

“Savvy use of new technology is vital for companies like HEESCO to prosper,” said Sami Zarzour, vice president, Public Sector Volume Sales, HP. “HP storage solutions and workstation computers, which are ideal for designing in AutoCAD, will enable the plant to design cutting-edge products that can compete in the global marketplace.”

“Choosing the right hardware is paramount to maximizing the capabilities of Iraq's professional engineering capabilities,” said Andy Lausch, senior director of Federal sales for CDW-G. “Working with the DoD, CDW-G evaluated HEESCO's specific needs to provide the data center and workstation equipment that would facilitate the quickest up-time, the right processing power, and convenient scalability – all of which will aid the Iraqi engineers in designing modern pressure vessels, circuit boards, pipes and other industrial equipment to meet the needs of Iraqi businesses today.”

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

AVEVA Solutions Power China's Plant Industries

13 November 2008

AVEVA's China Plant Division secures contracts in excess of USD3 million during the company's second financial quarter ending September 2008.

In the power and energy sectors, China's demand for electricity continues to drive the growth of AVEVA's solutions, which meet highly specialized requirements from both the nuclear and thermal sectors. China Nuclear Power Engineering Corporation, China Nuclear Power Design Company Ltd (Shenzhen), and Beijing Unergy Engineering Co Ltd, are amongst the organizations which have placed orders with AVEVA.

In the process and petrochemical sectors, AVEVA made contracts with Sinopec Nanjing Design Institute and Sinopec Luoyang Petrochemical Engineering Corporation.

Peter Finch, President, AVEVA Asia Pacific, said:

"As the leading provider of complete IT engineering solutions to EPCs (Engineering, Procurement & Construction) and design institutes in China, our Plant Solutions are key to the design of many power related infrastructure projects including coal and nuclear power stations and recently even a key substation built to cater to the Olympic Games' power distribution needs."

Finch added:

"Downstream process and petrochemical companies such as Sinopec's subsidiaries have not only benefited from AVEVA's design and engineering solutions, but also from our project and data management solutions that enable all types of information to be readily available and useful to a wide range of existing applications, therefore a wide range of users across the organisation."

AVEVA operates two separate divisions in China that are industry-specific to ensure all customer needs are realised. The office in Guangzhou caters specifically to the Plant industry while the Shanghai office is a dedicated Marine centre.

About AVEVA China Plant Division (Guangzhou)

AVEVA has become the dominant player in China's power industries, both nuclear and thermal, with 22 of the 26 Class A Certified electric power design institutes using their design systems. In 2006, AVEVA formed the Power Centre of Excellence (PCOE) in Guangzhou to reinforce AVEVA's long-term commitment to China. From this centre, AVEVA caters to a wide range of customers in China made up of various industries including power, oil & gas, paper, metallurgy, environmental, and metal & mining.

About AVEVA China Marine Division (Shanghai)

AVEVA's marine customer base is expanding rapidly, as China aspires to become the world's largest supplier of new ship tonnage within the next 10 years. AVEVA China's Marine Division based in Shanghai is responsible for serving all aspects of marine engineering and construction including both shipbuilding and offshore facilities.

About China Nuclear Power Engineering Corporation

China Nuclear Power Engineering Corporation is a subsidiary of China National Nuclear Corporation ([CNNC](#)), one of the biggest owners of nuclear power plants across China. China Nuclear Power Engineering Corporation's main activities include nuclear engineering, construction, consultation, testing, and personnel training related to nuclear engineering.

About China Nuclear Power Design Company Ltd (Shenzhen)

Guangdong Nuclear Power Engineering Co. Ltd. and Guangdong Electric Power Design Institute jointly funded the start up of [China Nuclear Power Design Company Ltd](#) (Shenzhen) in 2005. The company's main functions are in the areas of nuclear power engineering consultation, engineering design and construction, and operating nuclear power plants.

About Beijing Unergy Engineering Co Ltd

Beijing Unergy Engineering Co Ltd is an Engineering, Procurement and Construction (EPC) company involved in power related projects.

About Sinopec Luoyang Petrochemical Engineering Corporation

Sinopec Luoyang Petrochemical Engineering Corporation (LPEC) was founded in 1956. It offers a full spectrum of services from basic design, project engineering, project consulting and EPC project contracting of petroleum refining and petrochemical projects, oil & gas terminals and long-distance oil pipelines as well as research & development (R&D) of petroleum refining processes and equipment.
<http://www.lpec.com.cn/>

About Sinopec Nanjing Design Institute

The [Sinopec Nanjing Design Institute](#) was established in 1958 and is one of China's chemical class-A design units. The institute's main functions include design, engineering, general contracting, engineering consulting and construction supervision relating to chemical facilities.

 [Click here to return to Contents](#)

Bell Helicopter Standardizes on Dassault Systèmes' PLM Solutions to Maximize Efficiency and Improve Compliance Efforts

12 November 2008

Dassault Systèmes ([DS](#)) announced that Bell Helicopter, a Textron company, has embarked on a multi-year, multiple stage upgrade of its PLM and CAD/CAM/CAE/CAI systems using ENOVIA V6 and its pre-existing CATIA V5 implementation. Using Dassault Systemes solutions as its PLM foundation, Bell Helicopter will support its growth by using the ENOVIA Aerospace and Defense Accelerator™ for Program Management to meet regulatory requirements while also standardizing a number of key business processes to enable employees and suppliers across the globe to securely and more efficiently share updated product information.

Faced with a mix of aging, stand-alone technologies and systems, Bell Helicopter required an enterprise-grade, integrated solution capable of improving the efficiency of its digital product management process while also providing a foundation to support the globalization of its business. The combination of Dassault Systèmes CATIA V5 solution and ENOVIA's V6 Aerospace and Defense Accelerator to deliver specific collaborative business processes enables Bell Helicopter to reduce product introduction cycle times by integrating the supply network, support fielded products and foster collaboration with customers, partners and suppliers. The creation of a single PLM platform also enhances data efficiency and maximizes resources by promoting extensive data re-use across multiple programs.

“Increased global demand and a more complex business environment created unsustainable pressure on our existing legacy technology systems. We therefore needed the lowest risk approach to get maximum benefits from significant business process improvements,” said Glenn Isbell, program manager, Bell

CIMdata PLM Industry Summary

Helicopter. “The partnership with Dassault Systèmes will enable us to meet these challenges through an integrated solution that will establish a series of best practices to better manage and securely distribute product information globally within our company and across the supply chain.

This implementation will also help the company maintain a solid focus on compliance as a fundamental principle of its business operations. Actively involved in the development of both commercial and defense aircraft, Bell Helicopter is required to implement processes and systems that will support multiple sources of compliance requirements. The A&D Accelerator for Program Management will enable Bell to automate much of its Federal Aviation Administration (FAA) certification requirements while also enabling the company to meet the specific requirements of the Department of Defense (DoD) for critical defense programs. Other capabilities include defining objective evidence of compliance for Contract Compliance and Closure, ISO 9000 certification, templating for CMMI certification and lean process initiatives.

“With its geographically diverse operations, thousands of employees, multiple customer segments and significant compliance requirements, Bell Helicopter offers a perfect example of how an integrated PLM solution can address extremely complex business environments,” said Michel Tellier, chief executive officer, Dassault Systèmes ENOVIA Corp. “ENOVIA V6 was engineered to address these business challenges which clearly represent the evolving needs of this industry. We are extremely pleased to be collaborating with Bell Helicopter, and growing the worldwide community of aerospace leaders that are choosing ENOVIA to meet their strategic and future needs.”

The ENOVIA Aerospace and Defense Accelerator™ for Program Management is based on the Dassault Systèmes V6 platform, a single PLM platform for managing product lifecycle business processes that will enable customers to implement industry standards and best practices. Designed as an out-of-the box solution, the A&D Accelerator enables companies to rapidly deploy a state of the art, scalable enterprise solution for managing Programs across an extended-enterprise in real time that can help them meet product requirements, customer contracts, schedules and regulations within a single, collaborative environment.

About Bell Helicopter

Bell Helicopter is an industry-leading producer of commercial and military, manned and unmanned vertical lift aircraft and the pioneer of the revolutionary tilt rotor aircraft. Bell's global workforce serves customers flying Bell aircraft in more than 120 countries.

 [Click here to return to Contents](#)

Catalog Data Solutions Customer Wins Major New Accounts with CAD Downloads

12 November 2008

[Catalog Data Solutions](#) (CDS) announced that ASK Products is winning major new customers and business via the CDS CAD model download solution.

[ASK Products](#) is an Aurora, Illinois based manufacturer of power and grounding terminations. Following up on customer CAD downloads to confirm satisfaction is enabling ASK Products to build new customer relationships. “We call out of courtesy and talk to the real decision makers, the design engineers - we then understand their real needs and by meeting them earn new business. For example, we’ve tried for years to be a supplier to Caterpillar, finally CAD downloads provided the breakthrough because of the ease of obtaining them from our website catalog/configurator” said Steve Kase, CEO

CIMdata PLM Industry Summary

ASK Products. “We’re also responding to multiple new enquires from European and Japanese companies that are using CAD downloads from our website and we use it to train all our sales reps who, in turn, use it to train our customers.”

“We are delighted by ASK Products business success facilitated by our online Catalog/Configuration and CAD download solution”, said John Major, CEO Catalog Data Solutions, “ASK Product’s competitors currently have nothing like it and ASK’s success underlines the importance of online product selection and CAD model downloads as sales and marketing tools for all industrial suppliers.”

 [Click here to return to Contents](#)

Dyadem Helps Emerson Climate Technologies Improve Product Quality with Stature

11 November 2008

[Dyadem](#) announced that HVACR components manufacturer Emerson Climate Technologies has selected the Stature QLM solution to expand quality processes at its global facilities. Stature is a Web-based platform, with modular applications that allow an organization to manage risk and quality processes from cradle to grave. Stature will allow Emerson to identify measure and mitigate the risk factors that adversely affect quality.

[Emerson Climate Technologies](#) is the world's leading provider of heating, air conditioning, and refrigeration solutions for residential, industrial and commercial applications. Within the company’s business, several functional divisions – Air Conditioning, Refrigeration, White-Rogers, HVACR Motors, and others need to work together to produce many product derivatives and complete systems utilizing internal components. With Dyadem’s QLM platform, these divisions can use common parameters for quality and risk, providing Engineering and Manufacturing insight into the product’s overall quality factors and identifying top risks from a high level.

“The FMEA methodology has been in the fabric of our product development for more than 15 years,” said Clyde Verhoff, vice president of Technical Services and Corporate Quality, Emerson Climate Technologies. “First, Dyadem’s FMEA-Pro helped us automate more of our FMEAs and provide us with the information we needed to identify potential issues early in the development of individual components and products. The launch of Stature has put us in a great position where we will be able to securely connect hundreds of users around the globe to collaborate on new product designs and manufacturing processes.”

Emerson had been using Dyadem’s FMEA-Pro since 2005, replacing the standard home-grown spreadsheets that it had been using for risk analysis and reporting. Now, with Dyadem’s Stature Quality Lifecycle Management platform, Emerson can leverage the benefits of a Web-based system that not only allows for greater ease of deployment, but also provides a centralized knowledge repository and Bill of Compliance (BOC).

A true BOC is a report that shows where things were done according to plan and clearly highlights where there are gaps or room for improvement. This ensures that design, engineering and manufacturing collaborate effectively on design and manufacturing issues and that critical customer needs aren't forgotten.

“The bill of compliance, like a bill of materials (BOM) or bill of process, provides a persistent structure (a metadata definition) that defines bindings for master and operational data elements required to demonstrate product and process compliance for material sources and destinations by region, industry,

CIMdata PLM Industry Summary

or customer. Data elements could be stipulated regulatory documents, MSDS, assay results, raw material specifications, or training certifications. For many companies, the information required to populate the bill of compliance is already in existence, residing in bills of materials, FMEA databases, process sheets, bills of substance, bills of assets, and regulatory databases,” said Simon Jacobson of AMR Research in his report “Quality Management Hubs: Mitigating Brand Risk Across Complex Value Chains,” published on September 12, 2008.

Emerson conducts several hundred FMEA analyses per year and with its previous use of Dyadem FMEA-Pro software it can leverage all of this information in its deployment of the Stature platform, allowing consistency and transparency of years worth of data. Departments will be able to better collaborate and share information and design out quality errors. In addition, Emerson will also benefit from the comprehensive templates and professional libraries, including the fully customizable risk matrices that the platform provides.

“Our use of the FMEA methodology and Dyadem software is a top-down commitment starting with our management team,” continued Verhoff. “We recognize that our products and customers’ products are dependent upon our quality processes and Dyadem helps us ensure that we are looking at quality during product development as well as post product development. We believe that Dyadem’s software will provide us with a strategic advantage over our competition in the long-term.”

“Manufacturers are increasingly realizing that quality can be a real differentiator when it comes to surpassing the competition,” said Kevin North, president and CEO of Dyadem. “Our Stature QLM platform not only helps these companies monitor quality effectively, but more importantly, does so without requiring extensive time and resource investments.”

 [Click here to return to Contents](#)

GETRAG Chooses Actify's SpinFire Solution for 3D Visualization

11 November 2008

[Actify Inc.](#) announced that GETRAG Getriebe- und Zahnradfabrik Hermann Hagenmeyer GmbH & Cie KG, one of the largest system suppliers for transmission and drive train systems worldwide, implements the visualization solution SpinFire Publisher and SpinFire Professional in its headquarters in Untergruppenbach, Germany, making 3D Engineering data accessible to all its employees.

As 3D models carry a lot more information than 2D drawings, the SpinFire solution was implemented with the aim to make 3D Engineering data accessible throughout the entire engineering process, using the companywide Digital Document Archive solution from GETRAG. Currently, approximately 180 designers have direct access to a CAD system -- compared to 1,800 employees from other departments that are also involved in the engineering process and therefore also need access to the 3D Engineering data, which is now possible with the Actify solution.

Infotech Enterprises GmbH, a leading provider of digital design communication solutions and one of Actify's leading reseller partners has supported GETRAG in the execution of this project. The implementation consists of a fully automated process to export data from the CAD system ProEngineer™, used by GETRAG, then converting the native CAD data into Actify's visualization .3D format using SpinFire Publisher, and then exporting the data to Getrag's Digital Document Archive solution. This way, all employees in Untergruppenbach can now access intelligent 3D data without the need of having a CAD system installed on their computer by using SpinFire Professional as the viewing and review tool.

CIMdata PLM Industry Summary

This considerably enhances collaboration within the GETRAG Corporate Group as well as with customers and suppliers. Using SpinFire's .3D, data can be communicated and used in a multi-CAD, multi-format environment without requiring a CAD system, or CAD knowledge. The Actify .3D format significantly contributes to the protection of the intellectual property as native CAD files are no longer provided in their original format. Thus, they are protected against inadvertent or unauthorized changes. SpinFire Professional is used in all departments at GETRAG, from design, development, prototyping and purchasing to manufacturing, supervising and sales.

Hartmut Rebmann, Project Leader at GETRAG says, "Right from the beginning, the project found great acceptance among all parties involved. Through this, the Engineering process will change considerably, be more secure and much faster."

"The benefits that GETRAG will realize from standardizing on Actify's SpinFire Solution will be measured in process improvements and customer satisfaction," said Chris Jones, President of Actify, Inc. "With the Actify solution now implemented and with the support from Infotech Enterprises, not only will GETRAG realize considerable cost savings and productivity gains, but they will now have a streamlined method of communicating their Engineering data across the company," Jones concluded.

Currently, SpinFire is installed on all computers in Untergruppenbach, Germany. In the upcoming year, with the assistance of Infotech Enterprises, the project will be rolled out throughout Europe to standardize the data visualization process at GETRAG.

About GETRAG

GETRAG Corporate Group is the largest independent automotive transmission manufacturer worldwide with approximately 13,600 employees at 25 locations. The company's headquarters is in Untergruppenbach, Germany. The Group develops technical solutions for the automotive industry, featuring a wide product range of transmission systems and power train components for passenger cars, SUVs, motorbikes and light commercial vehicles. In 2007 the Group reached a turnover of around 2.6 billion euros.

About Infotech Enterprises GmbH

Infotech Enterprises is a leading provider of Engineering Services and offers CAD visualization and digital design communication solutions. Infotech Enterprises is the largest partner of the leading software producer Actify Inc. worldwide. Actify SpinFire suite of products is a highly functional and intuitive data visualization and communication solution to view CAD data. It offers highest scalability at lowest investment costs for companies in the automotive, technology, automation and manufacturing industry, as well as their suppliers worldwide.

 [Click here to return to Contents](#)

NEC Electronics Selects Mentor Graphics Calibre nmLVS for Advanced Circuit Characterization at 40nm and Below

13 November 2008

[Mentor Graphics Corporation](#) announced that NEC Electronics Corporation (Kanagawa, Japan) has selected the Calibre® nmLVS product to establish a highly accurate circuit characterization flow for 40nm and below. The Calibre nmLVS verification tool has been enhanced and upgraded for nanometer large-scale integrated circuits (LSI) with new features including advanced device parameter (ADP) extraction to enable customer-specific circuit characterization, as well as greater interactive debugging

CIMdata PLM Industry Summary

capabilities, and improved performance to increase productivity and reduce cycle times for very large SoC devices.

“Mentor’s Calibre nmLVS product with the ADP extraction feature enables us to extract highly-accurate circuit characteristics better reflecting our industry-leading semiconductor processes by taking into account systematic variation of layout context among the transistors themselves, and within the surrounding region,” said Haruji Futami, Senior Manager, Core Development Division, Technology Foundation Development Operations Unit. “This capability allows NEC Electronics to ensure more accurately designed LSI without any additional changes to our existing design flow. For this reason we are incorporating Calibre nmLVS into our standard design flow for high-density, high-performance LSI development, starting with products implemented at 40nm and below.”

NEC Electronics uses the Calibre nmLVS solution in a design flow that estimates the systematic variation in electric characteristics caused by differences in the way layout shapes are implemented on the wafer, which is a growing concern at smaller process geometries. The Calibre nmLVS tool accurately extracts circuit values taking into consideration interactions among adjacent gates, and stress effects introduced by shallow trench isolation (STI). By using a new script developed by NEC Electronics, extracted geometric data is fed into NEC Electronics’ proprietary gate pitch dependent characteristics variation model, and an STI stress induced characteristics variation model, which was developed by the MIRAI project lead by Selete under contract to NEDO (New Energy and Industrial Technology Development Organization). The Calibre nmLVS tool uses both models described in the script to generate a systematic variation aware net list. “We will continue to incorporate results from the MIRAI project and other layout-based variability factors into our design flow to further improve the accuracy of our LSI development,” added Mr. Futami.

“Meeting the needs of our customers working at leading edge process nodes requires us to evolve our tools at every step of the IC implementation flow,” said Joseph Sawicki, vice president and general manager for the design-to-silicon division at Mentor Graphics. “Because our solutions are all based on a common Calibre nm Platform, we can provide functional and performance advancements in a timely and consistent manner, enabling our customers to create highly flexible and well-integrated flows.”

Pricing and Availability

The Calibre nmLVS solution is available now. Pricing starts at \$126K.

About NEDO, Selete, and MIRAI

NEDO (New Energy and Industrial Technology Development Organization) is one of the largest central R&D organizations in Japan created to promote research, development and proliferation of Japanese industrial technologies and energy/environmental technologies. Selete (Semiconductor Leading Edge Technologies) was established with investment from eleven Japanese semiconductor firms including NEC Electronics as a consortium. MIRAI is a government research project under a research contract with NEDO, to develop technology innovation to tackle the challenges in the technical areas of hp45nm and below. Selete is a key member in this project.

 [Click here to return to Contents](#)

New Case Study Highlights How Piping Layout Consultants Doubled Productivity Using CADWorx Plant Professional from COADE

11 November 2008

CIMdata PLM Industry Summary

[COADE](#) announced the publication of a new Case Study from Piping Layout Consultants, Inc. (PLC) that highlights how the engineering and design firm has doubled productivity and streamlined deliverables for its clients on such projects as the Indiana Colts football stadium and a biodegradable plastics plant that involved a 56,000 foot-length piping system and 6,000 man-hours of design work.

PLC had decided to move to 3D software designed specifically to automate the plant design process, choosing CADWorx Plant Professional from COADE because it offers many features, including collision checking, automatic ISO's, bills of material, model walkthrough capabilities, links to stress analysis and stress isometrics. With CADWorx, the PLC designer enters each part of the design only once, and each deliverable is produced directly from the 3D model. Each drawing element can be checked once for all design views. The designers can adjust the design, and the software will update all views accordingly.

For typical projects, [PLC](#) is responsible for delivering piping isometrics (ISO's) to the shop for fabrication and plan drawings to the construction managers for putting the project together. "Our intent is 100% fit-up," said Keith McKinney, president of PLC. CADWorx Plant Professional from COADE is helping the firm toward that goal. "CADWorx reduced the time required per delivered ISO to about 4 to 4½ hours for typical renovation and expansion projects," McKinney explained. "Overall, CADWorx enables our 10 designers to produce the work of 20 using traditional methods," he concluded. This and other Case Study articles can be found at <http://www.coade.com>.

 [Click here to return to Contents](#)

Oguma Industry Improves Design Process and Quality with Dassault Systèmes' Mid-Market PLM Solution, CATIA PLM Express

10 November 2008

Dassault Systèmes (DS) announced that Oguma Industry Co., Ltd., a leading manufacturer of production facilities for the medical and automotive industries, has successfully streamlined its design process with Dassault Systèmes' CATIA PLM Express Industrial Machinery Offer.

Oguma Industry, which creates production equipment for new products that require advanced processing technologies, needs to offer high design accuracy and fast response to customer needs. In March 2008, after benchmarking multiple 3D CAD solutions, the company decided to replace its existing 2D design system with the Industrial Machinery Offer based on CATIA PLM Express to cut down on the time and manpower it used to spend developing new products.

With CATIA PLM Express's knowledge-based design templates, Oguma Industry was able to automate about 80 percent of its design process for its machining jig. The company also reduced design time by 40 percent and thus achieved quicker order response at the same time, enabling them to handle 1.5 times more orders. CATIA PLM Express's 3D visualization also allowed the company to create high quality product designs. 3D product images are much easier to understand than the design drawings generated by the 2D system Oguma Industry used previously. Interference check in any process, which was often the cause of errors, is now also made easier by Industrial Machinery Offer embedded in CATIA PLM Express.

"CATIA PLM Express Industrial Machinery package provides the advanced CATIA functions we need at an affordable level, says Mr. Katsumasa Kiriya, executive director, Oguma Industry. "Using CATIA PLM Express makes exchanging data with most of our customers much easier because they are also using CATIA. However, our main reason for adopting the solution was its scalability, which will allow

CIMdata PLM Industry Summary

us to use it for a long time. We would like to switch our large assembly design to 3D, which a midrange CAD solution would not have enabled us to do. We selected CATIA because in a rapidly changing market we believe we can utilize this solution for years and we can imagine our success with it”.

“We are pleased that [Oguma Industry](#) (Japanese only) selected CATIA PLM Express”, says Nicholas Calfacacos, general manager, Dassault Systèmes Japan. “CATIA PLM Express, which many mid-sized companies are using, enables companies to quickly select only the functions that are necessary to meet their business requirements, for a reasonable price. Dassault Systèmes will continuously support individual industries to find the most suitable solution to their needs. In the case of Oguma Industry, DS solutions were implemented through a collaborative effort between DS and FASOTEC Co., Ltd., a DS value-added reseller in Japan.”

 [Click here to return to Contents](#)

TSMC Purchases Magma's Titan Analog Migration to Reduce Analog Porting Time

12 November 2008

[Magma® Design Automation Inc.](#) announced that TSMC has agreed to incorporate Titan™ Analog Migration (Titan AM) into its analog design environment.

TSMC selected Magma's Titan AM for its ability to shorten analog design porting time from weeks to days. TSMC uses Titan AM to port its analog IP building blocks to new process nodes so its customers and partners can quickly implement their designs in TSMC's advanced technologies.

Titan AM accelerates analog circuit optimization and porting because, unlike traditional simulation-based techniques, it leverages a model-based approach. This approach enables analog developers to push the design envelope for performance and for process, voltage and temperature (PVT) corner cases, and to reduce power and area.

"The demand for analog design is increasing across a variety of process nodes," said ST Juang, senior director of the Design Infrastructure Marketing Division at TSMC. "With Titan AM, our designers shortened porting time, explored specification boundaries, and optimized analog circuits for reduced power and smaller area. In addition, Magma's Titan AM provided an efficient and predictable analog reuse methodology."

"The complexities of nanometer process technology demand a new approach to analog circuit design," said Suk Lee, general manager of Magma's Custom Design Business Unit. "Titan AM allows TSMC to quickly develop analog IP building blocks using the latest process technology, enabling their customers and partners to accelerate adoption of advanced processes."

 [Click here to return to Contents](#)

Van Alphen Sees ROI in just over Three Months with JETCAM and OMAX

10 November 2008

Van Alphen Metaal, based in Drunen, Holland, provides general metal product design and subcontract manufacturing services. Since the company's foundation in 2001 they have moved away from outsourcing manufacturing processes, gradually buying equipment to process them in house. In June 2008 they purchased an OMAX 60120 waterjet along with the manufacturer's entry level CAM system, but quickly found that the business the machine generated required a more automated approach.

CIMdata PLM Industry Summary

Cor van Alphen, Managing Director commented; “Our intention was to buy the machine and see how the business developed. After just two weeks it was clear that we were getting many orders for multiple parts, which required more efficient nesting. While the CAM system provided with the machine allowed us to quickly quote for and cut single components we needed to automatically process many parts. At that time we were manually nesting parts, which was taking about 5 hours of my time each day. We either had to hire another person or reduce the workload.”

Van Alphen decided to evaluate CAM systems that could provide automatic nesting, and that could also integrate with their existing Plan De Campagne ERP system. They investigated two CAM systems, one of which was JETCAM. “We provided a series of parts to nest to both vendors. When we saw the results it was clear that JETCAM was more efficient, due to features such as common cutting. Also, we felt comfortable that JETCAM had an OEM agreement with OMAX directly. ”

The decision was made and an order for JETCAM was placed to local JETCAM reseller Widenhorn in September 2008. Cor noted; “We placed the order on a Tuesday, and because of workload commitments Widenhorn agreed to perform the install on the Saturday. The software was installed and we were trained that morning, and we were ready to start cutting metal on Monday morning.”

The following week the company saw an entirely different process develop. Previously parts that were taking 2-3 minutes each to create were generated automatically in seconds using JETCAM’s Single Component Automatic Processing facility, with complete directories of DXFs being processed without human intervention. Nests were created dynamically, with material efficiency improving by up to 30%. As the nests themselves were more complex and could deliver more parts machine utilisation increased, providing additional capacity of five hours per week.

Both the programmer and machine operator saw a reduction on their workload. As all parts could be programmed and nested automatically, orders were simply being added to JETCAM’s Order List and nests were generated at the touch of a button. Overall the programmer halved the amount of time he spent on CAM related tasks. The machine operator was spending less time handling materials, and had more time available between sheet changes due to the highly optimised nests, which saved him an additional two hours per day. Where sheets were partially used the remnant nests were stored in JETCAM and reused, with new parts being profiled from the remaining space.

Two months after installation Van Alphen have had no occasion to request support, which Cor puts down to JETCAM’s ease of use; “We haven’t really needed to call on support, which really says it all. If you have general understanding of software then it is very easy to learn JETCAM.”

The company plans to integrate JETCAM into their existing ERP system, with orders appearing in JETCAM, ready for automatic nesting. Van Alphen has already seen a significant return on their investment, with the system that will have paid for itself in just over 3 months. Cor concluded; “We plan to expand our customer base by cutting different materials with the waterjet. JETCAM is excellent for batch production of parts and we can get much more through the machine. The best thing I get from JETCAM is my staff’s time back.”

Benefits achieved:

- System paid for itself in just over 3 months
- Nesting efficiency improved by up to 30%
- Programmer saves 2 ½ hours per day

CIMdata PLM Industry Summary

- Operator saves 2 hours per day
- 5 hours per week additional capacity on machine tool due to more complex nests being run
- 100% compatible NC code, and recommended by OMAX
- Virtually no support requirement since installation
- SCAP allows a directory of DXFs to be converted to geometry or nests in seconds
- System installed and user trained in 4 hours
- Remnant sheets could be reused easily
- Planned integration into existing ERP system

Software: JETCAM Expert CAD/CAM & Nesting software, Free Form Nesting

Machine: OMAX 60120 Waterjet

Installed: 2008

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Product News

Cadence Launches ActiveParts Portal and Brings New Productivity-Boosting Technology to Latest OrCAD Release

12 November 2008

Cadence Design Systems, Inc. introduced its new ActiveParts Portal—an expansion of its ActiveParts online component data solution—that will offer PCB design teams even greater access to key component information. As part of the new ActiveParts Portal, Cadence is teaming with [SupplyFrame, Inc.](#), to provide engineers with new choices and even greater access to the component information they need to create their designs. In addition, Cadence announced new productivity-boosting technology and enhancements for the Cadence® OrCAD® Capture CIS and Allegro® Design Entry CIS products.

Technology and enhancements introduced for the OrCAD Capture CIS and Allegro Design Entry CIS products include a new capability called Context-aware Non-Linear Graphic Editing. The capability is a new schematic editing technology for dense designs that provides a magnifying auto-zoom between focus points during editing operations. This auto-zoom capability greatly increases productivity by dynamically magnifying the area under the cursor as the user moves within the canvas. The latest OrCAD release, version 16.2, contains several other ease of use and productivity enhancements within the OrCAD Capture CIS and PSpice A/D products.

The Cadence ActiveParts online database allows design engineers to find component information and directly incorporate symbols and data into the OrCAD Capture CIS and Allegro Design Entry CIS products. By collaborating with SupplyFrame as the first portal member, the ActiveParts Portal provides engineers with additional component information from a greater number of suppliers, significantly expanding the availability of component data and part information for engineers.

“Our goal is to help mutual customers make fast and accurate design decisions by providing critical information directly from the component manufacturer at the time it is needed,” said Jeff Curie, vice

CIMdata PLM Industry Summary

president of Marketing at SupplyFrame. "This collaboration delivers the latest symbols, datasheets, specs and information on availability from thousands of manufacturers instantly from within the Cadence PCB design environment at no additional cost."

"[Cadence](#) is committed to developing the technology PCB designers need to do their jobs as efficiently and effectively as possible," said Josh Moore, senior product marketing manager at Cadence. "With the ActiveParts Portal and the additional new OrCAD technology, we've taken a big step forward."

OrCAD Capture boasts productivity and usability improvements including an updated GUI and enhanced search capabilities enabling users to work more efficiently; further shortening the design cycle. New FPGA design-in features include the ability to create split symbols, import and export FPGA pin assignments for leading FPGA vendors tools, and ease-of-use improvements for supporting the ECO process for FPGAs.

 [Click here to return to Contents](#)

Conformia Solution Enables an Integrated Information Environment for Pharmaceutical and Biotech Industries

November 13, 2008

[Conformia](#), the market leader for product/process lifecycle management (PPLM) solutions for the pharmaceutical and biotech industries, today announced the availability of an "out-of-the-box" Integrated Information Environment for large pharmaceutical and biotechnology process/product development divisions. Conformia's unique approach utilizes a service-oriented architecture (SOA) to provide a central hub for integrating multiple source systems of mission critical data across the product/process development IT landscape. The system allows scientists and researchers to incorporate a greater level of detail into the development process while utilizing one consolidated central view, resulting in a cost-effective and powerful new approach in drug development and management of the data for years to come.

Early on, Conformia recognized that pharmaceutical companies struggle to integrate core data across the research and development lifecycle. Most companies operate with multiple systems and are challenged with efficiently and effectively unifying them into one system. "When they do integrate in today's environment, it is typically through a point-to-point approach which is costly to manage and underachieving in the long term," said Vinay Ambekar, vice president of engineering for Conformia.

These systems range from manufacturing execution systems, enterprise resource planning, laboratory information management systems (LIMS), electronic lab notebooks, project management, data analysis and process automation tools to multiple homegrown systems, such as spreadsheets and paper notebooks.

Conformia's Integrated Information Environment supports SAP, Oracle and IBM environments and allows companies to integrate multiple systems like IBM Maximo, EMC Documentum, LIMS and other homegrown systems through a hub-and-spoke approach, providing a cost-effective, high-quality approach to the organization in challenging economic times.

"Various companies have tried to tie the systems together themselves and found the costs to be prohibitive," said Anjali Kataria, founder and chief marketing officer of Conformia. "They also lost development time while trying to get the systems to communicate and ultimately found that the business results were subpar when they tried to do the integrations on their own."

The Conformia approach not only provides the backbone from which to hang all these key systems, but it also brings a whole family of enterprise solutions that support the SAP, Oracle and IBM environments. “This can only mean good things for the research and development lifecycle and for providing information to those who want it at the time they need it in an efficient and cost-effective manner,” said Kataria.

 [Click here to return to Contents](#)

Delcam’s New PowerMILL Offers Complete Control

13 November 2008

The new release of Delcam’s PowerMILL CAM software will offer a more complete solution for complex machining operations, together with more control for experienced machinists that know exactly how they wish to machine a particular part. The program will also include a range of enhancements to existing functionality to enable both faster programming and faster machining. Full details on all of these improvements can be found on the PowerMILL web site <http://releasecentre.powermill.com/>

A complete solution

“Ever since its first release, PowerMILL has focussed on the more complex parts of any manufacturing operation,” explained Delcam’s CAM Development Director Steve Hobbs. “Many of our toolmaking customers tend to program the simpler tasks, like sizing the starting block of material, and finishing operations, such as cutting off, on the machine tool control rather than by off-line programming. However, as we have become more established in production machining, a growing number of our customers want to program everything with their CAM system. This has always been possible in PowerMILL but the new options in PowerMILL 9 will make the complete programming process much easier.”

Using a completely offline approach to programming gives other benefits as well. Firstly, it ensures that a fully-detailed record is maintained of the whole manufacturing process. This will make it easier for jobs to be repeated by different staff, or even at different locations, and will ensure a consistent approach is maintained whenever and wherever a part is produced subsequently.

Secondly, it makes simulation of the complete process easier and more reliable. The simulation can begin from the starting block of material, rather than the user having to produce a model of the stock remaining after the manually-programmed operations have been completed.

More machining control

Much recent development in PowerMILL has focussed on making the software easier for inexperienced and casual users to generate high-quality toolpaths for high-speed and five-axis machines tools. However, very experienced users tend to know exactly how they want to manufacture a particular part, or undertake a particular operation, and so need greater control over the results that their software can give.

PowerMILL 9 gives them this control by making it easier for experienced users to generate toolpaths based on any 3D curve. This was possible previously using PowerMILL’s pattern machining commands but the new approach makes it easier both to create the required 3D curve and to drive the cutter along it.

Faster programming and machining

CIMdata PLM Industry Summary

PowerMILL 9 includes a range of enhancements to give faster programming and faster machining. “Originally, many customers would buy PowerMILL simply because it was the only CAM system that could machine their components or tooling,” explained Mr. Hobbs. “Now, while there are some other CAM systems that can be used to manufacture complex parts, these cannot match the speed and quality of both programming and machining that our customers can achieve with PowerMILL.”

PowerMILL 9 incorporates a number of improvements to reduce calculation times, together with some simplification of the user interface that makes it easier to select the required command and so makes programming faster. In addition, toolpath ordering has been made more efficient, especially for roughing and rest machining, so ensuring that the cutter spends more time machining and minimal time making air moves.

“These enhancements may not grab as many headlines as completely new machining strategies,” admitted Mr. Hobbs. “However, they are vital to our customers that need to increase their productivity and reduce their lead times to maximise their competitiveness.”

 [Click here to return to Contents](#)

Design & Optimize Piping Systems with New Engineering Software Engineered Software, Inc. Releases PIPE-FLO® Professional 2009

7 November 2008

Engineered Software, Inc. announced the availability of the newest release of [PIPE-FLO Professional 2009](#) software program. PIPE-FLO Professional 2009 highlights include new features and improvements such as an Operating Cost Calculator, customizable FLO-Sheets and control valve Rapid Entry.

The PIPE-FLO product line is used by designers and operators to gain a clear picture of their fluid piping systems. The program allows users to visualize their systems in a familiar format, calculate system operations, easily communicate the design with others, and access supporting documents in electronic format. PIPE-FLO is different from other software of this type because of the integration with the pump selection tool PUMP-FLO™. This allows system designers to specify and select exactly which pump would work best in their piping system from over 100 actual pump manufacturer catalogs.

“We are excited about the new PIPE-FLO program and the value the new features add for our users, who are mostly engineers. Typically, we find that engineers are being asked where savings can be achieved in their piping systems, with PIPE-FLO, the system can be designed with economics in mind. PIPE-FLO helps create a system that is energy efficient and needs less maintenance, because it is designed correctly the first time. Ray Hardee, Vice President of Engineering at Engineered Software, Inc.

The biggest improvement for piping system designers is the [Operating Cost Calculator](#), used to determine pump operating costs over a defined period. Users choose their systems’ configuration, select their time frame and energy costs per unit, and can compare different lineup options. This new tool provides a way to see how much operating costs would change if an alteration were made to the systems design, without having to physically make changes to the system.

Many of the new features provide users with the ability to personalize and customize the FLO-Sheet and Reports. In prior versions, adding company logos was not a built in feature. The trend is for companies to have a presentable, easy-to-read, system model that can add value to the entire project.

“Users wanted more customization features for their PIPE-FLO projects and reports, so we allowed

CIMdata PLM Industry Summary

users to personalize their FLO-Sheets and reports with their own images and logos. We also provided our users with a Presentation Mode, giving users the ability to display their piping schematic in a manner that is fit for presentation to clients or management.,” said Carolyn Popp, Chief Technical Officer of Engineered Software, Inc.

[New Features include:](#)

- **Operating Cost Calculator** – Users can calculate and compare the operating costs of various pumps for any configuration or lineup.
- **Control Valve Rapid Entry** – Users can generate complete characteristic curve data from a single flow coefficient and valve position by selecting from a list of valve design and flow characteristics.
- **Valve Operation Controls** – Automatically change control valves from a set flow rate to the calculated manual position for easier lineup creation.
- **Atmospheric Pressure Calculator** – Calculates the atmospheric pressure at any specific elevation.
- More fluids added to the MKS Fluids Compilation list providing physical properties for over 700 gases and liquids.
- **FLO-Sheet Improvements** – Place any number of background images or logos on the FLO-Sheet for personalization.
- **Report Improvements** – Add an image or logo to the top of the printed reports for a personal touch.
- **Presentation Mode** – Displays the FLO-Sheet with a white background for enhanced viewing.
- **Copy and Paste Improvements** – Use the standard shortcut keys (Ctrl + C and Ctrl + V) in the PIPE-FLO program for quick copy & pasting.
- **New Device Symbols** – Seven new tank and component symbols are available to choose from.

For a fully functional demo of PIPE-FLO Professional 2009, please consult the [Demo Page](#) for the free download.

 [Click here to return to Contents](#)

Elysium's CADfeature Boosts Automation of Data Translation Tasks

12 November 2008

Elysium Inc. announced the release of CADfeature 8.2.1, their feature-based tool for capturing design intent and remastering design features from one computer-aided design (CAD) system to another. The latest release includes a capability for 2D drawing translation that supports view associativity with the target 3D model, and a tool that translates existing metadata for CAD files.

“Translating feature-based parts from I-deas to CATIA with CADfeature was much easier than we expected,” says Leif Söderros, Director Mechanical Development at SAAB Bofors Dynamics. “The diagnostic tools guided us through verification and some manual re-mastering, and the metadata feature helped us track each version of our files during the process. But most importantly, Elysium technical support was excellent, answering every one of our questions quickly and clearly. That’s crucial when you’re translating data in-house.”

“An important aspect of transferring full-model intelligence is automating and controlling as much of the process as possible,” says Ken Tashiro, vice president and COO of Elysium. “For instance, this latest

CIMdata PLM Industry Summary

update gives our customers a way to eliminate time-consuming regeneration and re-linking of 2D drawings that already exist and are already associatively linked to the CAD model.”

CADfeature includes diagnostic capabilities that check source and target files to ensure that translation has been accurate. Where there is a discrepancy, the software alerts the user and guides manual re-mastering of the file. A metadata function can extract data from I-deas/TDM (Team Data Manager) and pass it along with the appropriate files, making it possible to update CAD files while still keeping track of each version.

The 2D drawing translation tool recognizes and converts a wide range of typical views, including base/standard, projected, section, detailed, draft, and general (custom) views. This capability is currently for transfer from I-DEAS NX to CATIA V5. Options for other CAD programs are in development.

New capabilities in CADfeature include:

- A remastering tool that updates data to reflect the latest revisions to feature-based parts and assemblies, including sketches, dimensions, relations between features, and assembly histories and constraints.
- A standard part mapping tool that recognizes the source CAD parts and automatically replaces them, without translation, with identical ones from libraries in the target CAD, transforming the coordinate system to ensure that design intent matches.
- An incremental translation capability that checks for previously translated parts and substitutes the existing file for the new source part on subsequent translations.
- A metadata attribute mapping tool that provides tracking information in an XML file for all newly translated and standardized data. The mapped attributes can be made available to PDM systems in a customized form that matches existing labels (e.g., file names or numbers), and is scalable to track data from a desktop application to a large-scale enterprise system.
- An automated geometry verification process that compares 3D mass properties and point cloud data between the source and destination CAD systems. Properties checked include center of gravity, moments of inertia, surface area, volume, and maximum deviation within a surface. The results can be reviewed textually or within a built-in viewer that displays various model comparison views.

Tashiro notes, “CADfeature is an elegant solution for OEMs and supply chains that are working to create end-to-end digital product development and want to focus on creating and manufacturing innovative products—not on manual data regeneration and verification.”

For more information about Elysium and its products and services, visit <http://www.elysiuminc.com> and <http://www.elysium.co.jp>

 [Click here to return to Contents](#)

Icona Solutions Introduces Perceived Quality and Cost Optimisation Services Offering

10 November 2008

[Icona Solutions Ltd.](#) has introduced a range of consulting and engineering services designed to help manufacturers improve perceived quality in new products. Supporting all areas of manufacturing, from consumer electronic devices and domestic electrical appliances to automotive vehicles and aircraft, the new services draw on Icona Solutions’ years of experience in implementing perceived quality processes,

CIMdata PLM Industry Summary

enabling companies to review their designs at an early stage to optimise new products and avoid costly re-work later in the product development process.

Offered without the need for customers to purchase licenses of Icona Solutions' aesthetica perceived quality simulation and visualisation software, the new services include the provision of experts to work alongside a manufacturer's own team to help improve the way in which perceived quality targets and information flows across the entire product development process are managed. They also include the provision of suitably-qualified engineers to work with a customer, either on-site or off-site using a secure data transfer system, for as long as is required at any stage in the product development process, from early design concept through to manufacture and production, to ensure new products meet required perceived quality standards.

Measureable ROI and benefits

"High perceived quality is an increasingly significant differentiator for the buying public, as people become more selective in the products and brands that they buy", said Tim Illingworth, chief executive, Icona Solutions Ltd. "The challenge for manufacturers, therefore, is to increase the perceived quality of their products without negatively impacting manufacturing costs, while continuing to shorten the design-to-manufacturing timescale. Our new services offering, together with our diagnostic tools, enables manufacturers to gain early insight into the impact of manufacturing variation on perceived quality at all stages of the product development process. This can result in a significant return on investment, with numerous examples existing of companies achieving very effective cost-savings compared with their earlier product development programmes and processes".

Illingworth noted that the use of Icona Solutions' new services has already enabled one client to save at least \$500,000 on retooling costs as a direct result of a five-day perceived quality assessment project undertaken by Icona consultants during the design confirmation and validation stages of a development project.

He added that in another case, after using Icona's services to undertake an investigation into possible fit and finish perceived quality problems on a vehicle interior console very early in the styling and design process, a customer was able to reduce production costs and overheads by more than \$180,000 per year, with incremental savings per vehicle and increased yields adding significantly more savings over time.

Spanning the design-to-manufacture process

Offered either on their own or as a precursor to in-process perceived quality services, Icona Solutions' consulting services provide process mapping, to identify and map the processes and data flows used within an organization, as well as tolerance analysis, with accurate, real-time visualization of the results.

Perceived quality services can then be provided, at the concept stage to analyse sensitivity, communicate targets, define virtual audit processes and virtual worst case samples and to visualize derivatives; at the design stage to optimize locator strategies, reduce sensitivity to variation and identify concepts with consistent perceived quality; at the validation stage to analyse full perceived quality; and at the confirmation and improvement stage to validate tooling changes, analyse root causes of perceived quality issues and to perform what-if studies.

Dr. John Maxfield, technical director, Icona Solutions, stated, "The new services that we are introducing are a direct result of feedback from our existing as well as our prospective customers, who are keen to deploy not just our technology but also best practice and processes for managing perceived quality. With our years of experience we are able to quickly review development programmes and help clients

implement processes that improve perceived quality while containing, or often reducing manufacturing costs. We are confident that these services will be well received.”

 [Click here to return to Contents](#)

JETCAM Releases SolidEdge Importer

10 November 2008

JETCAM International s.a.r.l. announced the release of a free plugin for its Expert CAD/CAM and nesting software to allow users of SolidEdge to directly unfold and import 3D files.

The plugin, available free to all users of v16 of JETCAM with a current maintenance contract, also extends the reach of JETCAM’s automation to SolidEdge users by allowing SolidEdge files to be automatically processed using features such as Single Component Automatic Processing (SCAP) or Remote Control Processing (RCP).

Companies using SCAP can set JETCAM to ‘listen’ for files to arrive into a predetermined folder. When files arrive they can be automatically imported, tooling or profiling applied (depending on whether the part is to be punched or profiled) and a nest of each part can be created, with NC code being produced automatically. RCP takes this further by allowing tight integration into legacy data systems such as MRP. JETCAM’s order list can be externally populated. Once done, JETCAM can automatically unfold and import the CAD file and construct highly efficient dissimilar part nests – all without any user intervention.

Mike Weber, Managing Director for JETCAM International s.a.r.l. commented; “We are continuing our philosophy of automation, so extending to systems such as SolidEdge is a natural progression. Any stage of production that requires manual intervention creates an overhead, and with current market conditions anything that can streamline that process will deliver savings. The fact that this is available free to all V16 customers under maintenance is further justification to our commitment of demonstrable return on investment.”

 [Click here to return to Contents](#)

New SmartCAM V15.5 Release Boasts New Nesting, Verification Control, Turn Roughing Enhancements

10 November 2008

SmartCAMcnc has announced the release of SmartCAM® V15.5 applications. Version 15.5 delivers a variety of new enhancements and capabilities to the SmartCAM suite of computer-aided manufacturing (CAM) system software, from usability improvements such as verification control to new nesting options, and adds to the visualization and usability themes found in recent releases.

The SmartCAM product family consists of computer-aided manufacturing (CAM) software applications for milling, turning, fabrication and wire EDM.

“Many of the improvements to Version 15.5 were made directly due to customer enhancement requests,” said Doug Oliver, SmartCAMcnc’s Senior Product Manager. “Additional toolpath verification control, stronger nesting options in our milling applications and bi-directional turn profiling for groove finishing are three such examples where customers helped us identify important areas on which we concentrated.”

CIMdata PLM Industry Summary

“Version 15.5 clearly demonstrates that customer-directed input is taken very seriously by SmartCAMcnc. The combination of versions 15.0 and 15.5 provide a marked improvement to the SmartCAM product line, and our customers will be more productive using SmartCAM than ever before.”

New Showpath™, ShowCut™, and Code options allow the visual verification and coding to be restricted to the active step or group. This feature is extremely useful when you are developing tool path for a specific operation and wish to verify only that portion.

New nesting capabilities have been introduced into the SmartCAM V15.5 milling applications that when combined with existing nesting features provide milling users the ability to quickly and easily create sheet layouts for applications using equipment such as routers, lasers, burners, and water jets.

The new Lead In/Out functionality introduced with SmartCAM v15.0 is now available for bidirectional profile processing, typically used for groove finishing and undercut features that require bidirectional motion.

Version 15.5 also builds on V15.0's significant improvement to toolpath lead-in/lead-out creation and control by adding options for creating lead-in/lead-outs using an absolute angle. Absolute angles make it easy to enter or retract along a particular axis, regardless of the profile start and end orientation. In the case of turning, absolute angles can be used to ensure the tool enters and retracts along the tool bisector angle.

Additional enhancements to SmartCAM V15.5 include surface machining functionality that has been improved to provide greater control when using surface avoidance; and for SmartCAM turning applications, roughing improvements to material boundary definitions and material removal.

To monitor further developments please visit <http://www.SmartCAMcnc.com>.

 [Click here to return to Contents](#)

Open Text Introduces New Version of Imagenation Content Viewer Solution

13 November 2008

Summary: Open Text announced the release of Open Text Desktop Viewer v8.3 (formerly Imagenation) and Open Text Content Viewer Toolkit v8.3 (formerly Image a•X).

Details: Open Text Desktop Viewer (formerly known as Imagenation from Spicer Corporation) is a tool for accessing, sharing and distributing your company's information. Its ability to handle document viewing requirements—from native file viewing and 3D CAD model viewing, to direct scanning and cleanup of paper documents, to document markup and revision—for hundreds of industry standard formats makes Open Text Desktop Viewer the leader in enterprise-wide viewing tools.

With Open Text Desktop Viewer v8.3, organizations dependent on document distribution and output will benefit from faster and more efficient desktop interactivity between documents, scanners and browsers. New file format support in this version includes Autodesk AutoCAD 2009, Autodesk Inventor 2008 2D & 3D, SolidWorks 2009 2D & 3D, Excel 2007 and DWF 7.3.

The release of Open Text Desktop Viewer v8.3 and the accompanying release of Open Text Content Viewer Toolkit v8.3 (formerly Image a•X) demonstrates Open Text's commitment to our customers and partners to continuously improve and provide innovative solutions to our market. These newly released versions include a number of important enhancements such as Unicode API support in the Content

CIMdata PLM Industry Summary

Viewer Toolkit and SMF 4.0 (Now allows PDF Add On to save to SMF). Full details can be found in the What's New in Release 8.3 section of the Open Text Desktop Viewer Help File.

Customers can contact Customer Support by email at support@opentext.com or call 1-800-540-7292 to request a copy.

Systems Affected: Open Text Desktop Viewer v8.3 and Open Text Content Viewer Toolkit v8.3.

More information: For more information, contact your local [Customer Support](#) office.

 [Click here to return to Contents](#)

PTC Introduces Pro/ENGINEER Manikin; New Solution Optimizes Human-Product Interactions

11 November 2008

PTC® announced the launch of Pro/ENGINEER® Manikin™, a 3D digital human modeling solution that enables design teams to add a digital human model to a CAD product model to simulate and communicate human-product interactions. Two new modules, Pro/ENGINEER Manikin Extension and Pro/ENGINEER Manikin Analysis Extension, provide ergonomic and human factors analysis capabilities for customers of Pro/ENGINEER, PTC's parametric 3D CAD/CAM/CAE software and a key component of the PTC® Product Development System. By accelerating detailed design processes and reducing the need for expensive physical prototypes, Pro/ENGINEER Manikin helps customers create winning products with faster time-to-market, improved quality and reduced costs.

“PTC's new manikin software is notable for its tight integration with Pro/ENGINEER. Pro/ENGINEER Manikin brings digital human visualization and simulation to the engineer's desktop within the CAD user interface and without the need for the engineer to be a human factors expert,” said John MacKrell, senior analyst, CIMdata. “This is a very impressive first step for PTC for supporting a human-centric design approach. Pro/ENGINEER Manikin will enable customers to better optimize their products for the people who will use, manufacture and maintain them.”

Pro/ENGINEER Manikin, the industry's first ISO standards-based solution, provides comprehensive, easy-to-use, capabilities to simulate and communicate human-product interactions for a global population. Highlights of Pro/ENGINEER Manikin Extension and Pro/ENGINEER Manikin Analysis Extension include:

Pro/ENGINEER Manikin Extension

- Quickly insert, customize, and manipulate accurate, standards-based 3D human models
- Create human reach envelopes and vision cones to understand what limitations may exist in a design
- Gain a first-person perspective of a product and “see” what the manikin can “see”
- Accelerate design by leveraging libraries of global populations and manikin postures

Pro/ENGINEER Manikin Analysis Extension

- Simulate, communicate and optimize manual handling tasks by validating them against published standards and guidelines
- Ensure conformance with health and safety guidelines and ergonomic standards. Includes standard algorithms for analyzing workplace tasks including lifting and lowering (NIOSH 81/91), pulling and pushing (Snook), energy expenditure (GARG), and posture (RULA)

CIMdata PLM Industry Summary

- Analyze designs faster with simplified workflows to posture the manikin and reuse saved postures and analysis settings
- Leverage advanced reporting capabilities of analysis results earlier in the development process to deliver products designed and optimized for humans in less time

Additionally, beginning in December 2008, basic manikin capabilities that enable users to insert a pre-defined manikin into a CAD model and easily manipulate the posture to gain an understanding of how a human would fit or interact with a proposed design will be included in all Pro/ENGINEER packages at no additional charge for those customers on the latest maintenance release of Pro/ENGINEER Wildfire 4.0.

“The new capabilities introduced in Pro/ENGINEER Manikin will dramatically improve our ability to design innovative products for our customers. These same features are also applicable to considerations for improvements in the manufacture, assembly and service of our products. The vision cones, reach envelopes and other human factors analysis capabilities provide valuable insight earlier in the product design and development process,” states Patrick Hodgins, chief engineer, Callaway Cars. “The seamless integration with Pro/ENGINEER and ease of use will also help accelerate adoption of the product. These new modules will enable our company to reduce time-to-market and decrease physical prototyping costs.”

“Having the capability to perform human-product interactions early in the development cycle supports innovation and helps optimize the design process,” said Michael Campbell, senior vice president, product management, PTC. “Allowing design engineers to know how a customer will physically interact with a product during the design process enables them to design products that will be optimized for their target audience. This technology enables customers to create safer, more comfortable and more usable products, while at the same time reduce the typical, costs associated with prototyping. Pro/ENGINEER Manikin underscores PTC’s ongoing commitment to delivering superior technology and value to our customers.”

Pro/ENGINEER Manikin Product Availability

Pro/ENGINEER Manikin Extension, Pro/ENGINEER Manikin Analysis Extension and free, basic manikin capabilities available to all customers on the latest release of Pro/ENGINEER Wildfire 4.0 and later are expected to be available in December 2008 in English, French, German, Korean, Japanese, Spanish, Italian and Simplified and Traditional Chinese. For more information on Pro/ENGINEER Manikin products please visit the Pro/ENGINEER Manikin product launch page on PTC.com at www.ptc.com/products/proengineer/manikin

*The timing of any product release, including any features or functionality, is subject to change at PTC’s discretion.

 [Click here to return to Contents](#)

STAR-CCM+ V3.06: Automatic Flow, Thermal and Stress Simulation

7 November 2008

CD-adapco announced the release of STAR-CCM+ V3.06, the latest version of its engineering simulation software, which is now available from the [User Services Site](#). More than just a CFD code, STAR-CCM+ is an integrated platform providing multi-physics simulations, including: combustion; multiphase flow; heat transfer through solids and fluids; dynamic fluid body interaction; and, in the

latest release, solid stress: all from within a single environment.

According to Jean-Claude Ercolanelli, CD-adapco's VP Product Management, the arrival of STAR-CCM+ V3.06 represents a true paradigm shift in the simulation of multi-field and multi-domain problems:

"Everyone appreciates that most practical problems involving fluid dynamics are in some way also related to the interaction between fluids and one or more solid bodies. In the past, Fluid Structure Interaction (FSI) normally required manual sequential coupling between CFD and structural analysis software", says Ercolanelli. "The implementation of finite volume solid stress modeling within STAR-CCM+ has changed this situation, providing users with the ability to automatically solve the physics of both fluid and solid domains simultaneously, resulting in a complete simulation of Fluid Structure Interaction (FSI) using a single computational model".

Mesh Morphing and Multi-body Dynamic Fluid Body Interaction

This latest version of STAR-CCM+ extends the recently introduced DFBI modeling capabilities by introducing the ability to simulate the movement of solid bodies using either embedded motion or mesh morphing. By enclosing the body to be studied in a spherical or cylindrical sub-domain, the embedded motion technique allows the simulation of extreme levels of rotation such as lifeboats falling into water or shipping containers slamming into the ocean. While the sub-domain is free to rotate without limitation, the rotation and translation of the outer fluid domain may be limited; ensuring robustness of solution without having to resort to time and resource consuming re-meshing techniques.

For more complex movements and situations involving multiple bodies, STAR-CCM+ now has the ability to "morph" the volume mesh either prescribed by the user or automatically when invoked by the DFBI model. By deforming the mesh around an object, without the need for remeshing, the morphing model can be used to simplify many moving mesh simulations including fluid and rigid body-interaction as well as design optimization studies.

Improved productivity and CAD/CAE integration

STAR-CCM+ V3.06 also includes a wide range of enhancements aimed at improving the quality of your simulation results while increasing your productivity:

- Native CAD readers: get the latest geometry configurations from Designers without translation or file duplication
- Projection back to CAD after remeshing or wrapping: high quality meshes can now be created on curved surfaces, such as those at the leading edge of an aerofoil.
- Export and map CFD results onto ABAQUS mesh: offers further flexibility for FSI simulation and collaboration between multi-disciplinary teams

Fire and Smoke Wizard: developed in collaboration with leading Swiss fire and smoke modeling specialists Gruener AG.

Advanced and validated new physics modeling capabilities

- Transition Modeling: simulate laminar-turbulent transition using the Gamma-Retheta model validated for turbomachinery, racing boats, Formula One cars and aircrafts
- LES new WALE model for effectively handle larger and more complex models on Aeroacoustics analyses

CIMdata PLM Industry Summary

- Mass transfer in Lagrangian Multi-phase models
- De-fogging and De-icing: thin film modeling for vehicle thermal management simulations

STAR-CCM+ V3.06 is now available for download from the [User Services Site](#), or from [your local CD-adapco office](#).

 [Click here to return to Contents](#)

Synopsys Announces Complete SuperSpeed USB IP Solution Consisting of Device Controller, PHY and Verification IP

12 November 2008

Synopsys, Inc. announced a complete, single vendor SuperSpeed USB IP solution consisting of the DesignWare® device controller, PHY and verification IP. The solution also includes a SuperSpeed USB virtual platform and drivers to aid software development. Utilizing elements from a single vendor enables designers to create SuperSpeed USB-based designs from concept through implementation and software development. Synopsys is expanding its portfolio with a comprehensive, high quality DesignWare® SuperSpeed USB IP solution, helping designers lower the risk and cost of integrating the latest USB 3.0 specification into their system-on-chip (SoC) designs. Synopsys will be demonstrating the DesignWare SuperSpeed USB Device Controller at the upcoming SuperSpeed USB Developers Conference in San Jose, Calif. from November 17th - 18th, booth # 6.

Consumers are demanding higher bandwidth for faster data transfer of video, pictures and music for the next generation of camcorders, portable media players and smartphones. To address this demand, the SuperSpeed USB standard, based on the USB 3.0 specification from the USB Implementers Forum (USB-IF), delivers higher bandwidth for faster "sync-and-go" functionality between PCs and portable electronic devices. SuperSpeed USB delivers more than 10x the data transfer rate of Hi-Speed USB. For example, a 27 GB high-definition movie can be transferred from a PC to a portable device in approximately one minute utilizing a SuperSpeed USB interface, compared to 14 minutes using a Hi-Speed USB interface. SuperSpeed USB is backward compatible with previous USB technologies, offering the same ease-of-use and plug-and-play capabilities, while maintaining interoperability with existing USB products.

"Synopsys has a long and successful history in USB IP development, their contributions help drive USB standards into the marketplace," said Jeff Ravencraft, president and chairman, USB Implementers Forum. "The DesignWare SuperSpeed USB IP solution will help designers take advantage of the high bandwidth and low power benefits of SuperSpeed USB and quickly implement it into their target application."

The DesignWare SuperSpeed USB device controller and PHY IP are based on Synopsys' technology leading Hi-Speed USB products, which have been silicon-proven in hundreds of designs and are shipping in volume production. Optimized for low power, the DesignWare SuperSpeed USB device controller is designed to allow designers to maximize battery life by using dual power rails. The DesignWare SuperSpeed USB IP is delivered with lower power intent in Unified Power Format (UPF) allowing designers to use the Synopsys' Eclipse™ Low Power Solution to automatically implement aggressive power management schemes for dynamic and leakage power. The DesignWare SuperSpeed USB PHY consists of integrated high speed digital and analog blocks, PLL, and I/O pads, which are delivered as GDSII for advanced foundry processes. This saves designers considerable time, cost and the

CIMdata PLM Industry Summary

risk of acquiring and integrating the IP separately. The DesignWare SuperSpeed USB Verification IP supports all major simulators, with the added benefit of built-in support for the VMM methodology, enabling designers to quickly verify connectivity between the integrated IP and the SoC. The Linux drivers and SystemC™ transaction-level models in the DesignWare SuperSpeed USB virtual platform allow designers to begin software development in parallel with IP integration, months before hardware and FPGA prototypes are ready. This significantly reduces the product design cycle and accelerates time-to-market.

Additionally, Synopsys is collaborating with MCCI, a leading developer of USB software solutions, to provide designers with more options for software and drivers including support for device firmware, host class drivers and software customization services.

"We consider Synopsys to be the technology leader in USB IP and are continuing our successful collaboration to support the DesignWare SuperSpeed USB device controller with the MCCI USB DataPump® embedded device solution," said Terry Moore, CEO of MCCI. "Our broad range of software and services combined with the DesignWare SuperSpeed USB IP offering gives customers more time to focus on their product differentiation, and not on the development of the standardized USB software."

"As a leader in USB IP, Synopsys has the expertise to deliver and support a comprehensive and robust SuperSpeed USB IP solution," said John Koeter, vice president of the Solutions Group at Synopsys. "Designers can trust that Synopsys' high quality DesignWare SuperSpeed USB IP solution will allow them to successfully deliver innovative products incorporating SuperSpeed USB and help meet their critical market windows."

Availability

The DesignWare SuperSpeed USB device controller, PHY, verification IP, virtual platform, and driver IP is scheduled to be available in 2H 2009. For more information on DesignWare USB IP, please visit: http://www.synopsys.com/products/designware/usb_solutions.html

Also, visit the USB IP blog at <http://www.synopsysoc.org/usb-blog/>

 [Click here to return to Contents](#)

The Light Version of KOMPAS-3D is Now Available for FREE

10 November 2008

ASCON Group announced the availability of its Mechanical-CAD solution, KOMPAS-3D V10, in **Light** and **Viewer** mode. This freeware KOMPAS-3D V10 LT and Viewer provides the possibility to CAD-users all over the world to become familiar with professional and modern 3D modelling software to enable easier, faster and more accurate design absolutely FREE of charge.

KOMPAS-3D V10 LT is a functionally reduced version of the three-dimensional solid modelling system, which can be used for FREE. It is a perfect way for to start learning 3D, as well as for persons who would like to raise designer's skills or for trial use and to become familiar with new, complex MCAD solution. Light version of KOMPAS combines all basic features for classical parametric 3D modelling, 2D drafting, design, release of documentation and interactive learning system KOMPAS-ABC in one and allows designers worldwide to learn the advantages of using professional MCAD software. KOMPAS-3D LT is available for users in two languages: English or German, and the main difference from commercial software is that FREE version does not allow 3D assembling. This system is

CIMdata PLM Industry Summary

recommended for students and 3D beginners, home usage and commercial testing. Special conditions will be provided to update from KOMPAS-3D V10 LT to KOMPAS-3D V10 Professional.

Download KOMPAS-3D LT version now FREE of charge at <http://ascon.net/download.php>.

 [Click here to return to Contents](#)