

## Contents

<b>Acquisitions</b>	<b>3</b>
assyst Will Continue - with Human Solutions at the Reins	3
<b>CIMdata News</b>	<b>3</b>
CIMdata in the News: “Whitepaper: Electrical, mechanical design software enables collaboration”	3
Last Chance to Provide Your Input Regarding What PLM Analytics Would be Most Useful to You	3
<b>Company News</b>	<b>4</b>
AspenTech Provides Microsoft’s Enterprise Sales Organization with Training on Process Optimization Best Practices	4
AVEVA Partners with Engineering Resource Company & Community College to Train Displaced Detroit-Area Auto Designers	5
DS SolidWorks Education Edition 2009 Expands Access To Advanced CAD Functionality While Boosting Performance	5
IronCAD Signs New Reseller in the United Kingdom	7
Lectra Among 17 European Companies Chosen to Participate in ‘A New Look At Innovation’—a Report Prepared by the ESCP-Europe at the Request of Christine Lagarde, French Minister For Economic Affairs, Industry and Employment	8
Shanghai Jiaotong University Receives US\$60 Million In-Kind Software Grant from Siemens PLM Software	10
Siemens PLM Software Japan Announces PLM Initiative to Help Local Companies Address Business Challenges	11
SimuTech Group and Microsoft Team-up HPC Solutions for ANSYS FEA & CFD Customers	12
3DVIA Empowers Students to Design and Share 3D Models as Part of the Mobi3 Competition Program	13
<b>Events News</b>	<b>14</b>
Advanced Machining Technology at ‘WorkNC Lab2’ Seminars	14
Ansoft to Introduce High-Performance Computing Capability for HFSS at International Microwave Symposium	15
COADE Discovery Tour Set for June 16 in Lima, Peru, Featuring CADWorx Plant Design Suite	15
Delcam Reseller SEACAM Reports Record Interest at FEIMAFE	16
Delcam to Show Latest Machining and Inspection Developments in Paris	17
ESPRIT 2009, by DP Technology, to be Exhibited at PTC User World Event 2009, Orlando, Fla., June 7-10	18
Gerber Technology Announces Dates and Location for 11th Annual Software Users Conference	18
KOMPAS-3D at Australia’s Leading Industrial Exhibition	19
NEi Software Shows Advanced Simulation Tools for Pro/E Users at PTC World Event Conference 2009	19
<b>Financial News</b>	<b>20</b>
AVEVA Preliminary Results Year End 31 March 2009	20
Cimatron Reports Financial Results for the First Quarter of 2009	21
Magma Reports Revenue of \$147.0 Million for Fiscal 2009	22
Mentor Graphics Reports Fiscal First Quarter Results	25
<b>Implementation Investments</b>	<b>29</b>
Altrust Switches its CAD Systems to ZWCAD	29
ANSYS Software Enhances Design to Keep Flood Waters at Bay; Pumping Platforms Designed Using Engineering Simulation Software Withstand Hurricane Forces	30

# CIMdata PLM Industry Summary

---

CENIT Implements Sweeping PLM Project at Vossloh	31
Colorado Department of Transportation Chooses AutoTURN	31
Delcam's ArtCAM Used for Giant Chandeliers	32
Exar Selects Synopsys as Its Leading EDA Partner	33
Mentor Graphics Announces All-Calibre Physical Verification and DFM Flow for Advanced IC Designs at Fujitsu Microelectronics	34
Netronome Adopts Broad Scope of Cadence Technology	34
NKK Switches Expands 3D CAD Library for Toggle Switches and Pushbuttons	35
Nucletron B.V. Goes Live with Pilgrim Software's Solution for Change Order Management	36
NVIDIA Deploys Magma Talus 1.1 Release Into Production	37
PTC Announces Engagement with Nokia	38
PTC Pro/ENGINEER® Helps Penske Racing Team Claim Victory at Indianapolis 500 Memorial Day Race	38
Simulation Helps Develop Spray Gun with 50% Larger Pattern in Significantly Less Time	39
STX Offshore & Shipbuilding Selects MSC.Software's Engineering Analysis Solutions to Achieve Increased Simulation Accuracy	40
TriQuint Semiconductor Selects Synopsys' TCAD Sentaurus for Compound Semiconductor Technology Development	40
Ulysse Nardin Gains Time for Design With Autodesk Inventor Software	41
Volvo Group Selects PTC as Strategic Partner for Future PLM Solutions	42
WorkNC Transforms Coin and Medal-Making Productivity at the Bank of Algeria	43

## **Product News** **44**

---

Aras Announces Latest Release of Advanced PLM Software Solution Suite; New Feature Packed Open Release of Enterprise PLM Software Solution is Available	44
Bentley's ProjectWise Dynamic Plot Brings Paper Into Digital Age to Help Mitigate Project Risk	45
Cirquent Offers Application-Level Solution for PLM Monitoring	46
CNC Software Unveils Mastercam X4	48
Delcam Expands Five-Axis Machining Capabilities	49
Endeca Announces the Endeca Manufacturing Suite to Improve Quality and Cut Costs Across the Value Chain	50
Lattice Technology Releases XVL Studio Version 8.1	51
Magma Announces Release of Talus 1.1 With Breakthrough Talus CORE Technology and New Talus Flow Manager for Enhanced Designer Productivity -- Delivers 'Fastest Path to Silicon	53
New Add-On for KOMPAS-3D Makes Sheet Metal Design Even Easier	54
progeCAD German Version Offers Improved AutoCAD Compatibility	55
Siemens PLM Software Announces Solid Edge with Synchronous Technology 2	56
SURFCAM Velocity 4® SP1 Now Available	57
Synergis Software Releases Enhanced Integration with SolidWorks for Adept Engineering Document Management Software	58
Synopsys Releases DesignWare SATA IP for New SATA 6Gbps Data Transfer Rate	59
Vero & CADENAS Join Forces	60
VX 2009 V14.01 Update Brings More Customer Driven Enhancements	61
Wipro Launches Hosted Document Management Solution	62
Zuken Launches CADSTAR ECAD – MCAD Bridge	63
Zuken's Electrical Verification Tool Now Available	63

## Acquisitions

### *assyst Will Continue - with Human Solutions at the Reins*

28 May 2009

The [Human Solutions GmbH](#) has taken over all software products, software-related services and the software-related hardware supplies of the former assyst/bullmer GmbH from that company's insolvency estate. As of today, the new Managing Director is Dr. Andreas Seidl.

“Human Solutions and assyst have had an intensive and trusting working relationship in different business spheres for several years now”, said Dr. Seidl. “It is our objective to successfully continue assyst's business at the Asheim-Dornach site. The products in the company's key segments, Computer Aided Design (CAD), Product Data Management (PDM) and automarker.com play a decisive role here, since they are already being used in the production of several thousand customers all over the world. The associated business units of Development, Sales and Support will therefore be retained and successfully further developed”, Seidl explained. “Thanks to the absorption of all the company's key personnel, close cooperation on the product and sales/technical levels and a new organization which will utilize the synergies of both companies, we have achieved the best possible scenario for successful cooperation - and our customers will reap the benefits of this. The complete value-added chain in the apparel industry can now be supplied - from the shop to product development and the patternmaking team. This takeover has created one of the largest, Germany-wide specialist suppliers for the apparel sector”, he concluded.

 [Click here to return to Contents](#)

## CIMdata News

### *CIMdata in the News: “Whitepaper: Electrical, mechanical design software enables collaboration”*

28 May 2009

[Control Engineering](#) announced CIMdata's new white paper entitled “[ECAD-MCAD Collaboration Solutions](#)” that explains the collaboration that's possible between electrical computer aided design (ECAD) and mechanical computer aided design (MCAD) and describes product offerings that help companies develop electro-mechanical designs regardless of industry sector. John MacKrell, a senior consultant for product lifecycle management (PLM) consulting and research firm CIMdata, authored the paper, which also provides CIMdata's assessment of the ECAD-MCAD collaboration solutions of PTC and Mentor Graphics.

 [Click here to return to Contents](#)

### *Last Chance to Provide Your Input Regarding What PLM Analytics Would be Most Useful to You*

29 May 2009

The CIMdata opinion poll on “What PLM analytics would be most useful to you” will close early this upcoming week so take a moment right now to express your opinion by clicking [here](#).

The results of these polls are tabulated as you vote. The results are completely anonymous. If you are currently logged in your vote will not be connected to your personal information in any way.

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

 [Click here to return to Contents](#)

## Company News

### ***AspenTech Provides Microsoft's Enterprise Sales Organization with Training on Process Optimization Best Practices***

27 May 2009

Aspen Technology, Inc. announced its lead role in training Microsoft's Enterprise Sales Organization on process optimization best practices in Microsoft's Industry Solution University (ISU) series.

Microsoft and AspenTech work together to deliver enterprise-class software that helps process industry companies optimize their engineering, manufacturing and supply chain operations.

Microsoft chose AspenTech from thousands of Gold Certified partners to train their enterprise field personnel on process optimization best practices.

AspenTech's aspenONE® process optimization software is VISTA compliant and takes full advantage of Microsoft technologies, including Application Virtualization, .NET platform, SharePoint, Excel, Windows Server, SQL Server, Microsoft Office SharePoint Server 2007, Internet Explorer 7, Microsoft BizTalk Server, and PerformancePoint Server.

#### **Supporting Quote:**

*Blair Wheeler, SVP of Marketing, AspenTech*

“Our technology integration with Microsoft makes process optimization easier to use and more accessible to a broader range of users. By making our software more accessible, we are making it possible for more process manufacturers to reap the benefits of using aspenONE. In today's economic climate, having an easier path to reduced manufacturing costs, improved energy efficiency, and enhanced operational productivity is good news for the process industries.”

*Chris Colyer, Senior Director, Worldwide Business Development, Manufacturing and Resources Sector, Microsoft*

“We chose AspenTech to train our enterprise sales force because of their excellent expertise and innovation, and the completeness of their integration with the latest Microsoft technologies. AspenTech is highly qualified to help process industry companies successfully navigate rapidly changing and volatile market conditions.”

#### **Supporting Resources:**

Links to more information:

[About Microsoft Industry Solution Universities](#)

[BASF – using Microsoft Application Virtualization to deploy aspenONE](#)

[Simplifying aspenONE rollout and management with Microsoft](#)

 [Click here to return to Contents](#)

# CIMdata PLM Industry Summary

---

## ***AVEVA Partners with Engineering Resource Company & Community College to Train Displaced Detroit-Area Auto Designers***

27 May 2009

AVEVA Group plc announced it is partnered with engineering resource company Talascend, LLC and Macomb Community College in Warren, Michigan, to provide training for unemployed auto designers whose positions have been eliminated over the last several years due to economic conditions and industry changes. The company has donated more than \$800,000 in engineering software to Macomb Community College to cross train experienced designers and engineers with the skills to enter the plant design industry and other US engineering markets where demand is higher.

"Although the automotive sector is struggling in the current economic environment, the US engineering market as a whole is actually in need of quality, skilled workers and this program provides an opportunity to fill that need while also supporting a deflated auto industry," said Derek Middlemas, Group Operations Director at AVEVA Group plc. "AVEVA is pleased to donate the world's leading engineering software for the purpose of retraining individuals for future employment."

Talascend, LLC created the program having witnessed firsthand the decline in demand for automotive designers and engineers; and through their research determined a need for those positions in the piping industry. Talascend teamed with Macomb Community College, an accredited institution and Michigan's largest provider of certificates and associate degrees, to develop and deploy the curriculum, facility and personnel for the training. The program works with Michigan's "No Worker Left Behind" Program for funding eligible students.

The 6-week training program is currently taught by Dr Bill Beazley, executive director of the Society of Piping Engineers & Designers (SPED), jointly with a Macomb College instructor. After completing the training program, graduates are ready for assignment immediately.

For those interested in registering for the course, or further information regarding the graduates and the Talascend Global Training Academy, please contact Ann Spaven, Training Academy Administrator at 248-537-1287 or visit <http://www.talascend-gta.com/>.

 [Click here to return to Contents](#)

## ***DS SolidWorks Education Edition 2009 Expands Access To Advanced CAD Functionality While Boosting Performance***

27 May 2009

Dassault Systèmes SolidWorks Corp. (DS SolidWorks) announced a new version of its SolidWorks® Education Edition 3D CAD software that features a 65 percent performance boost and new resources that help educators use the software as an effective tool for teaching math, science, and technical concepts.

SolidWorks Education Edition 2009 also streamlines licensing procedures to give learning institutions easy access to the software and supporting materials. A Web-based licensing system, the Student Access Module, enables schools to more easily acquire and manage large numbers of SolidWorks software licenses to meet their students' needs. Once they have the software, new training and curriculum help educators teach academic subjects and engineering skills students need in the professional world. These new resources are:

# CIMdata PLM Industry Summary

---

- An expanded teacher's guide to help prepare students for the Certified SolidWorks Associate (CSWA) exam. CSWA certification improves students' marketability because the certification demonstrates proficiency and job-ready skill sets with SolidWorks software.
- Built-in student guides accessible by clicking on the SolidWorks Resources button in the user interface.
- A teacher training course through SolidWorks resellers on using the software as part of science, technology, engineering, and math (STEM) lessons. Students learn skills such as applying forces and evaluating material properties by working with CAD models of a hook, a wooden bridge, and a car's control arm.
- Downloadable textbooks and guides for each SolidWorks Simulation product help instructors explain Finite Element Analysis (FEA) and Computational Fluid Dynamics (CFD) concepts.
- A complete update of all curricula based on user feedback.

“SolidWorks has a good ear for what we need to make 3D CAD software an effective learning tool,” said Stefano Tornincasa, a professor at Politecnico di Torino in Turin, Italy. “The software is a phenomenal teaching tool on its own. However, the quality of SolidWorks' curricula, training materials and CSWA certification are key to us using the software to its best effect in the classroom. They make the software a more accessible resource.”

## **More speed for advanced learning**

SolidWorks Education Edition 2009's 65 percent performance improvement makes working with complex designs faster and more efficient. The improved performance comes from integrated workflows, adapted from real-world situations that help students transform their ideas into 3D models.

In addition to the performance boost, Education Edition 2009 includes 260 technical improvements. Among the most significant are:

- Support for Windows Vista 32 and 64-bit applications.
- The PhotoView 360 rendering tool, based on SolidWorks Intelligent Feature Technology (SWIFT), which lets students render a photorealistic scene while they're working on it. Most software forces users to wait until scenes are complete.
- A Simulation Advisor for finding hidden flaws by guiding users through every stage of analysis.
- Simulation Sensors that alert users when parts and assemblies deviate from user-defined limits. Users set goals such as allowable stress, displacement, part weight, measurement, and interference, and the sensors react when users exceed the limits, providing a competitive advantage for FSAE, Formula Student, and robot teams.

“Between Education Edition 2009's power and the high premium we put on easy access in this release, we feel that we've gone to a new level in developing SolidWorks as an educational asset,” said Marie Planchard, director of worldwide education markets for DS SolidWorks. “We approached access on the two levels that matter most to educators: getting software licenses without a lot of hassle, then using the licenses as a teaching tool as effectively as possible. Educators can concentrate on using SolidWorks to

bring subjects like math, physics, and engineering to life for their students.”

 [Click here to return to Contents](#)

## ***IronCAD Signs New Reseller in the United Kingdom***

27 May 2009

IronCAD, LLC announced the signing of their latest reseller, Triple8CAD based in Carmarthen, South Wales. Triple8CAD is a company primarily focused on the furniture design and woodworking markets with a secondary focus on the automotive and aerospace markets. The company has over 12 years experience in 3D CAD solutions.

"I've worked with many CAD systems over the years and they definitely have their individual strengths and weaknesses. For the furniture and woodworking industry however, we feel that the 3D capabilities are too restrictive due to their history, parametric, and rules based systems," said Mike Bowen, president of Triple8CAD. "With IRONCAD, there is so much more freedom to design. It is a system which quickly and efficiently enables users to visualize their designs in full 3D. The catalog based drag and drop interface, combined with a flexible history based approach to design which allows a mixture of features and direct editing, is ideally suited to this industry. There is a very short learning curve with IRONCAD and the ease of use allows furniture designers and woodworking professionals the ability to experiment with various ideas in a non-restrictive environment. Our woodworking customers also tell us that the integrated and customizable bill of material work extremely well for woodworking companies, enabling them to easily build their cutting lists."

What further convinced Triple8CAD to become an [IRONCAD](#) reseller were the new features that will be available in IRONCAD's next release, due later this year, IRONCAD Next Generation. IRONCAD Next Generation will be the first 3D CAD application available that offers the freedom of design using an "Innovative Design" mode as well as the ability to build fully parametric, rules based, "Structured Design" parts within the same environment. When designing in Innovative Design mode, the user has complete freedom to experiment with various designs and implement radical design changes regardless of the feature history. However once the users design is complete, they may want to build a more structured, parametric part that includes design intent, design rules, and other parametrics. IRONCAD Next Generation's "Structured Design" mode gives the user that level of control. Further enhancing IRONCAD's value to customers will be a fully integrated industry standard 2D design and detailing environment. This environment can be used to detail the user's 3D parts and assemblies as well as the development of all other required 2D documents. In addition, it will allow the user to load, edit, and save their existing legacy 2D data.

With [Triple8CAD](#) now serving the southwest portion of England, IronCAD further builds on its reseller base in throughout the United Kingdom. "I am excited that Triple8CAD has chosen to join our team," said Richard Serna, IronCAD's Director of Channel Sales. "Their experience and expertise in 3D design makes them a valued addition to our reseller network."

 [Click here to return to Contents](#)

# CIMdata PLM Industry Summary

---

## ***Lectra Among 17 European Companies Chosen to Participate in ‘A New Look At Innovation’—a Report Prepared by the ESCP-Europe at the Request of Christine Lagarde, French Minister For Economic Affairs, Industry and Employment***

27 May 2009

Lectra is one of 17 European companies chosen to participate in the report ‘A New Look at Innovation,’ presented on April 30 to Christine Lagarde, French Minister for Economic Affairs, Industry and Employment.

To coincide with the French presidency of the European Union, “Europe takes action to meet today’s challenges” (July 1 to December 31, 2008), the report was written by Pascal Morand, CEO of ESCP Europe (European School of Management) and Professor of Economics, and Delphine Manceau, Professor of Marketing at ESCP Europe and innovation marketing specialist. The result of a collaborative working process led by the report’s authors in conjunction with teachers at ESCP Europe as well as other academic experts, the document incorporates testimonials from 24 CEOs and senior executives of 17 French and European companies. These business leaders were consulted by the writers in order to glean their overall view and perception of innovation, to collect their ideas about factors for success and failure, and to document strategies for innovation implemented within their own companies. Companies were chosen from extremely diverse market sectors, some with a strong technological bent, others less so, all of varying sizes—from young, innovative companies to global corporations. The firms selected were singled out for their great capacity for innovation and their success in international markets—among the 17 chosen were: Hermès, l’Occitane, l’Oréal, PSA Peugeot Citroën, Orange, Scania, Sony Europe, Total and Lectra.

The aim of the report is to propose “a wider definition of innovation which goes beyond research and development and integrates all other business factors,” and also to establish “indicators that enable, within the framework of an update of the Lisbon strategy, better measurement of the results of innovation policies implemented by member states and institutions of the European Union.”

Arguing for a wider vision of innovation that does not stop at R&D but integrates work done on business practices, economic models, design and marketing, the report makes a number of points that favor European firms’ capacity for innovation. It also proffers new indicators for measuring capacity for innovation and presents 10 points of action destined for public authorities as well as member states and institutions of the European Union.

“With innovation an essential factor in economic competitiveness, it cannot be limited to just research and patents,” say Morand and Manceau. “In an age of globalization, investment in research is just not enough. Innovation only creates value and revenues for companies and for the economy if it filters into the business and operating activities of firms.”

The observations, ideas and conclusions presented in this report coincide, for the most part, with the attitude, approach and innovation strategies Lectra has implemented every day since its inception.

“André Harari, Chairman of the Board of Directors, and I are both extremely honored to have been consulted for the creation of this comprehensive report which adopts such an original approach, presentation and conclusion,” said Daniel Harari, Lectra CEO. “We were very happy to share our 33 years of experience and to contribute to the writers’ research. In 1976, when André, then one of the pioneers of venture capital in France, met Lectra’s two founders, the company employed fewer than 10 people—he raised the initial capital necessary to implement the company’s development plan. We hope to help other companies realize that innovation, in all its forms, is a key factor for competitiveness of

# CIMdata PLM Industry Summary

---

European companies and for their success in world markets. We are very proud to ally ourselves with the report, initiated by Christine Lagarde and the French government. For us, being chosen to take part in this project is recognition of Lectra's success and a clear indication of our place in this country's industry."

## **Lectra: a passion for innovation**

Since its inception, Lectra's passion for innovation has led it to channel all its expertise and creative energy into one single objective. It aims to support its customers—whether they operate in the fashion, automotive, furniture, aeronautical, wind energy, or personal protective equipment sector—in an ever more demanding world without geographic and cultural boundaries, where tough competition exerts incessant pressure on prices, production cycles and creativity.

[Lectra](#) considers innovation to be its overriding business strategy that clearly fuels its business model and thus its competitiveness. Established as one of Lectra's five key values, along with leadership, entrepreneurship, excellence and customer care—other essential values outlined in the report—innovation has always been the pillar of Lectra's identity. The company's main strength lies in the long-term, value-creating relationships it creates with customers to help them face new strategic challenges and which have enabled Lectra to become world number one in its sector. Lectra has consistently demonstrated its commitment to being a forerunner in its field. Today's technological advances and the development of future improvements are the result of Lectra's ability to anticipate. With experience and expertise in their customers' business activities, Lectra's teams are able to analyze their challenges, identify their needs, support their evolution, and bring them state-of-the-art solutions. Lectra invests heavily in R&D—€18 million in 2008, representing 9% of its revenues; 15% of its workforce are allocated to R&D, with a team of 220 specialized engineers, of which 200 are in France.

A marketing strategy to accompany innovation—the importance of which is highlighted in the report—enables Lectra's 23,000 customers, spread across 100 countries, to implement technologies, roll them out, and optimize their use. Lectra presents innovative solutions combining equipment, software and services and which cover design, production and product lifecycle management. They help customers manufacture faster and better, while reducing costs and allowing all participants in the process to collaborate using secure, electronic methods. For Lectra, the best way to encourage innovation uptake is to support its customers' change management in order to promote renewal of solutions, guide progressive evolution of their implementation, and encourage optimal use of technology.

For the writers of this report, "Diversity within teams generates open-mindedness and curiosity for difference...and a new approach to subjects, which stimulates creativity." Diversity is indeed an important vector for innovation at Lectra, hence the extremely varied sociological and cultural backgrounds of its personnel. A workforce made up of 55 different nationalities across 31 international subsidiaries—a total of 1,500 partners worldwide—certainly prompts the company to look at things from a unique angle.

The report also highlights, "the important role of different ways of thinking and of viewing risk and failure...Innovation is mainly about perception, first, because it forces teams to re-think a company's products and activities, and, more importantly, because it requires audacity and a high level of risk-taking." A capacity for encouraging initiative and capitalizing on past successes and failures is one of the fundamental strategies by which Lectra is characterized.

Finally, Morand and Manceau highlight the fact that, "One of the most noteworthy decisions taken over the last few years to promote innovation within business has been the French Research Tax Credit...in

# CIMdata PLM Industry Summary

---

its new, expanded and simplified form, introduced by Christine Lagarde in 2008.” The result of this measure has been “to put France among those countries that offer companies the strongest incentives for the promotion of research.” Reaping the full benefits of this credit, Lectra’s strategic decision to maintain R&D activities in France and resist the temptation to move them offshore, something which has remained unchanged throughout the years, has been vindicated and strengthened.

The report ‘A New look at innovation’ is available on the website of the Ministry for Economic Affairs, Industry and Employment:

[http://www.minefe.gouv.fr/directions\\_services/sircom/rap\\_autre\\_vision\\_innovation090430.pdf](http://www.minefe.gouv.fr/directions_services/sircom/rap_autre_vision_innovation090430.pdf)

 [Click here to return to Contents](#)

## ***Shanghai Jiaotong University Receives US\$60 Million In-Kind Software Grant from Siemens PLM Software***

27 May 2009

Siemens PLM Software announced an in-kind software grant with a commercial value of US\$60 million to China’s Jiaotong University in Shanghai. The in-kind donation provided through the Siemens PLM Software’s **GO PLM™** (Global Opportunities in Product Lifecycle Management) program, is the first to target shipbuilding in China, which is home to one of world’s busiest seaports, Shanghai.

Siemens PLM Software will present the software donation during a digital design and computer aided engineering seminar being hosted today by the Department of Plasticity Technology and the National Digital Manufacturing Technology Center of Shanghai Jiao Tong University.

Professor Xueyu Ruan, dean of the Department of Plasticity Technology at Shanghai Jiao Tong University, director of the National Digital Manufacturing Technology Center, director of the Technical Committee of National Engineering Laboratory for Digital Shipbuilding and an academician of Chinese Academy of Engineering will present at the seminar.

"Shanghai Jiao Tong University expresses deep gratitude for this generous donation of leading-edge PLM software which together with the seminar marks an impressive start to our new collaboration with Siemens PLM Software," said Ruan. "Our cooperation goes beyond education in handling the latest in digital manufacturing technology to provide skills to the larger business and engineering communities which are important to enhance China's growing manufacturing industry, an important engine of continuing economic development in China."

“As part of our long term commitment to China, Siemens PLM Software is pleased to partner with Jiaotong University, one of the world’s leading educational institutions, to assist the country to acquire the expertise to sustain the country’s growth and advance Shanghai’s competitive position,” said Chuck Yuan, senior vice president and general manager, Siemens PLM Software, Greater China.

“As one of the world’s busiest ports, Shanghai serves as China’s gateway to growth and is a key to the success of many companies in the transport and logistics industry, both locally and overseas. It is therefore paramount that the skills of the workforce and capabilities of enterprises based here are able to manage increasingly sophisticated designs with state-of-the-art materials to meet the demanding needs of shipbuilding and other industries,” added Yuan.

The in-kind grant of **NX™** software, Siemens PLM Software’s comprehensive digital product development solution, will bolster the university’s offerings in plasticity engineering, a discipline that spans materials ranging from traditional and ultramodern metals to state-of-the-art plastics, ceramics and

# CIMdata PLM Industry Summary

---

composite materials.

Siemens PLM Software's NX digital product development software supports collaborative product design, engineering simulation and analysis. NX combines the best of constraint-driven techniques synchronous technology in a comprehensive CAD/CAM/CAE solution that provides users with up to a 100 times faster design experience and a 30 percent reduction in physical prototypes.

## **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 1,000,000 students yearly at nearly 10,200 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

[www.siemens.com/partners/goplms](http://www.siemens.com/partners/goplms).

## **About Jiaotong University**

Founded in 1896, Jiaotong University in Shanghai is one of the oldest universities in China. A number of disciplines within the University have advanced to world-class status such as communications and electronic systems, naval architecture and ocean engineering, automatic control, composite materials and plasticity processing. Jiaotong University has an enrollment of around 36,000, among which over 18,100 are graduate students and 18,000 are undergraduates.

The National Digital Manufacturing Technology Center was established by the Government as an institution that specializes in digital manufacturing technology. The Department of Plasticity Technology at Jiaotong University educates undergraduates, graduates and Ph.D. students. The National Die & Mold CAD Engineering Research Center at Shanghai Research Institute of Tool & Die Technology was established by the National Planning Committee, covering the field of advanced manufacturing technology. The above institutions are managed by an integrated team headed by Ruan Xueyu. The combined assets of the institutions have a value of RMB120 million. The institution maintains relationships with more than 100 institutes, universities and companies in America, Japan, and Europe, and has already set up more than 30 joint laboratories in various industries around the globe.

 [Click here to return to Contents](#)

## ***Siemens PLM Software Japan Announces PLM Initiative to Help Local Companies Address Business Challenges***

27 May 2009

Siemens PLM Software announced a Japanese version of a new online PLM resource center to help Japanese companies address today's business challenges and turn more of their ideas into successful products, as well as to show small manufacturing businesses how implementing a PLM strategy can help them better respond to the needs of their customers. The new online resource center is part of a global initiative which was announced earlier this year.

The localized [small to medium size business \(SMB\) resource center](#) will show small manufacturing businesses how implementing a PLM strategy can help them better respond to the needs of their customers. Siemens PLM Software shows SMB customers how to reduce customer delivery by 50

# CIMdata PLM Industry Summary

---

percent, reduce engineering change orders by 40 percent, and save 30 percent in physical prototyping costs. Siemens PLM Software's top performing SMB customers use PLM to achieve these kinds of savings so they can respond quickly to customer needs.

Similarly, the localized [medium to large enterprise \(MLE\) resource center](#) is designed to show how implementing a PLM strategy can help address today's global business challenges. Siemens PLM Software shows how top performing MLE customers have addressed global business challenges to implement concurrent processes that reduce time-to-market by up to 30 percent, enable as much as 90 percent data reuse across global facilities and increase quality with up to 95 percent less rework.

These new local online resources are available to both current and potential customers.

"In today's global business environment the requirement to bring new and profitable product to market, couldn't be higher," said Kazufumi Misawa, vice president and managing director, Japan, Siemens PLM Software. "This environment requires a system and an approach to managing information around products that allows customers to deal with varied environments and still be profitable. There is really no way to compete in this global design-anywhere, make-anywhere, build-anywhere environment without a PLM strategy. Siemens PLM Software's online resource center will provide information to local companies to address these challenges."

 [Click here to return to Contents](#)

## ***SimuTech Group and Microsoft Team-up HPC Solutions for ANSYS FEA & CFD Customers***

14 May 2009

SIMUTECH GROUP is partnering with Microsoft to introduce customers of ANSYS FEA and CFD (ANSYS) simulation software to an economical and effective means of significantly increasing their productivity. By incorporating Windows® HPC Server 2008 into their existing engineering processes, ANSYS customers can reduce their solution times, allowing more detailed and complex models to be analyzed or more engineering designs to be evaluated and optimized over a shorter period of time.

"Our ANSYS FEA and CFD customers are always looking for means to increase their productivity. While the combination of ANSYS software and Windows-based computers (PCs) continue to yield incremental gains, customer can take the next full step in productivity with the incorporation of a Windows HPC Server 2008 solution," says Rick James, SimuTech Group's Vice President of Consulting Services. "For some time now, SimuTech has been working directly with Microsoft in optimizing the implementation of the Windows HPC Server 2008 solution running ANSYS software. As a result of this collaboration with Microsoft, SimuTech is uniquely qualified in working with customers in implementing an HPC solution."

What makes this solution so economical is that ANSYS customers can use their existing ANSYS licenses for the base configuration. To make the jump to an HPC environment, three components are required. First, ANSYS HPC licenses are added to their existing ANSYS license. ANSYS HPC licenses are a fraction of the price when compared to the base license. Second, Windows HPC Server 2008 is installed on standard, off-the-shelf PCs. Third, work with SimuTech Group to ensure that the implementation goes smoothly. The productivity gains realized from a move to an HPC environment will provide ANSYS customers with a positive ROI as well as better quality and lower cost (optimized) designs.

Several informational seminars are scheduled in May and June that will introduce ANSYS customers to

# CIMdata PLM Industry Summary

---

the Windows HPC Server 2008 solution and the productivity gains that are possible. These seminars will be jointly sponsored by SimuTech Group and Microsoft. As of today, seminars will be held in Richland (WA) – May 13, Seattle – May 19, Salt Lake City - May 27, Rochester (NY) – May 27, Denver – June 2 and Boulder (CO) – June 2.

For more information on these seminars, please visit: <http://www.SimuTechGroup.com>.

For more information on Windows HPC Server 2008, please visit: <http://www.microsoft.com/hpc>.

 [Click here to return to Contents](#)

## ***3DVIA Empowers Students to Design and Share 3D Models as Part of the Mobi3 Competition Program***

27 May 2009

Dassault Systèmes ([DS](#)) announced that 3DVIA Shape and [3DVIA.com](http://3DVIA.com) are serving as the 3D modeling tools for the Mobi3 program during its second year. Mobi3 launched the second edition of its year-long program in 2008 by continuing the partnership between five multi-national companies, Dassault Systemes, DLA Piper, IBM, Nokia and SFR; two nonprofits IMS - Entreprendre pour la Cité and the European Engage Network; and the French Ministry of Education. This year's goal is to help 120 middle school students from economically disadvantaged neighborhoods in Paris. Through the program, the students will participate in a hands-on team project to discover the product design and development process of a mobile phone.

The Mobi3 program highlights the complementary role that each partner company plays in the mobile phone's lifecycle, from design to sales and recycling. DS provides insight into 3D design, Product Lifecycle Management (PLM) and how industrial processes are simulated. Students will also get a feel for what it is like to work as a 3D design engineer.

“Dassault Systèmes being a world leader in PLM, provides a crucial perspective to this project. Its 3DVIA brand offers our students easy-to-use, collaborative tools that allow them to jump right into the product development process,” explained Stéphane Guérault, teacher at the Ariane middle school in the Paris region. “We've already seen how the 3D tools are empowering the students and anticipate a very exciting finish to this year-long competition.”

Student teams have started to create mobile phone designs and digital prototypes using DS' 3DVIA Shape and 3DVIA.com. 3DVIA Shape, professional grade 3D publishing software in a consumer friendly package, provides a free and easy way for the students to create their ideas in 3D and share them online. 3DVIA.com, a community and resource for 3D artists and enthusiasts, provides a place for the students to search, upload and share ideas. The students, as well as the teachers, are able to create and share 3D models of mobile phones and of their schools on a Mobi3 3DVIA.com group specially created for the project. Along with the designing process, students are also able to make proposals on how they would manage each phase of the phone's lifecycle.

At the end of the year-long program in May, the finalist team from each school will present their project to a jury of professionals from participating companies, who will then select the winning team. The winning team will visit the Nokia Design Lab in London.

“By providing students with an introduction to the world of 3D content creation and experience, we are able to prepare them for their future, regardless of their career path, as 3D continues to grow in importance for both businesses and consumers,” said Lynne Wilson, senior vice president and general

# CIMdata PLM Industry Summary

---

manager, 3DVIA, Dassault Systèmes. “We look forward to working closely with the students as they learn about and experience the power of 3D.”

Mobi3 is coordinated by the Europe-wide ENGAGE program formed by the Business in the Community (BITC) in London. This program is aimed at bringing together businesses and community organizations around the globe to increase the quality and amount of employee community engagement within their local communities. The success with Mobi3 in France was such, that the plan is to expand the program to Italy during the 2009-2010 school year. 3DVIA Shape and 3dvia.com will, then again, participate in the program as the 3D design tool for students and teachers.

To see the students working examples on their 3D projects, go to <http://blog.crdp-versailles.fr/mobi3ariane/index.php/page/10>

For more information on 3DVIA, go to <http://www.3dvia.com>. For more information on Mobi3, go to [http://www.engageyouremployees.org/uploads/documents/mobi3\\_summary\\_report.pdf](http://www.engageyouremployees.org/uploads/documents/mobi3_summary_report.pdf).

 [Click here to return to Contents](#)

## Events News

### *Advanced Machining Technology at ‘WorkNC Lab2’ Seminars*

28 May 2009

[Sescoi](#) and the OSG Corporation will be running a second series of working seminars, ‘WorkNC Lab 2’ on 11th and 12th June at the Meguro-ku, Tokyo, technical center of the Makino Milling Machine Co Ltd.

This builds on the success of the ‘WorkNC Lab 1’ seminar held in November 2008, which welcomed 140 engineers from leading Japanese companies including Ahresty Group, RYOBI Limited and the Koito Manufacturing Co., Ltd. SESCOI and OSG have been combining forces, over the past year, to develop innovative machining solutions which are both practical and intelligent, and designed to solve common machining problems.

Visiting engineers will benefit from additional collaboration with the MST Corporation and Hitachi Metals Ltd. Presentations will include the surface machining of a water jacket, which has been programmed in WorkNC, on a Makino D500 5-axis vertical machining center. The D500 incorporates three direct drive motors in its rotary axes, one for the C-axis and two for the A-axis - one at either end of the trunnion. The dual motor design provides greater torque and rigidity and eliminates twist and torsion, enabling the machine to achieve greater dynamic accuracy.

SESCOI will be demonstrating how the programming of 5-axis toolpaths is automated in WorkNC. 3 and 3+2 axis cutterpaths are automatically transformed into collision free, 5-axis paths in the software, bringing the benefits of one-hit machining, and the accuracy and quality improvements produced by short rigid cutters, within the reach of every company.

Tooling supplied by OSG will be used during the cutting demonstration, including its variable lead end mills, which provide long tool life and stable cutting in difficult materials. Cutting data from the collaborative efforts between SESCOI and OSG is preloaded into WorkNC, ensuring that optimum machining conditions are always selected, and that machining is done in as close to ideal conditions as possible.

## CIMdata PLM Industry Summary

---

Three WorkNC users will be sharing their skill and experience, explaining the techniques they use, how it has improved their productivity and profitability and helping delegates to see how the technology can be applied to advantage in their own businesses.

Read online: [http://www.sescoi.com/index.php?id=pr&pr=wnc\\_lab2\\_seminars&L=2](http://www.sescoi.com/index.php?id=pr&pr=wnc_lab2_seminars&L=2)

 [Click here to return to Contents](#)

### ***Ansoft to Introduce High-Performance Computing Capability for HFSS at International Microwave Symposium***

26 May 2009

[ANSYS, Inc.](#) announced that its subsidiary Ansoft will showcase leading electronics solutions at the International Microwave Symposium (IMS) conference to be held in June. As wireless communication and electronic devices proliferate and become smaller and more functional, the need for simulation solutions increases. Ansoft™ software helps engineers design, simulate and validate the behavior of complex high-performance radio frequency (RF), microwave and millimeter-wave devices in next-generation wireless communication and defense systems. Using Ansoft technology, customers can achieve a reduction in development time and cost, while at the same time realize increased reliability and optimization.

IMS is a premier RF/microwave engineering conference, dedicated to the advancement of microwave theory and its applications. During the event, Ansoft will introduce planned enhancements to its industry-standard 3-D full wave electromagnetic field simulation software HFSS™, including domain decomposition, a high-performance computing (HPC) option. The technology, which adds even more depth and breadth to the ANSYS multiphysics suite, enables engineers to solve problems such as electromagnetic-induced heating in high-power microwave structures and antenna performance while under mechanical deformation through links with the ANSYS® Workbench™ platform.

“This year, RF and microwave engineers will discover how our new high-performance computing breakthroughs and multiphysics solutions can deliver remarkable advantages,” said Dr. Lawrence Williams, Ansoft's director of product management. “These advancements will allow engineers designing devices such as antennas, phased arrays, passive RF/mW components, advanced electronic packaging, and RF PCBs the ability to consider many more design possibilities and to solve very large-scale problems faster than ever before. It is another important step in delivering the ANSYS vision of Simulation Driven Product Development™.”

Ansoft will stage in-booth demonstrations during the conference. Ansoft's advanced electromagnetic-field simulators dynamically linked to powerful harmonic-balance and transient circuit simulation can break the cycle of repeated design iterations and lengthy physical prototyping.

Ansoft will be at booth 2207 at the IMS conference, which takes place June 7 to 12 in Boston, Massachusetts, U.S.A.

 [Click here to return to Contents](#)

### ***COADE Discovery Tour Set for June 16 in Lima, Peru, Featuring CADWorx Plant Design Suite***

26 May 2009

COADE announced that the next COADE Discovery Tour event featuring the CADWorx Plant Design

## CIMdata PLM Industry Summary

---

Suite is scheduled for June 16, 2009, in Lima, Peru, organized in conjunction with QPS – Quality Professional Software, COADE’s dealer in the region. This educational session will feature the latest capabilities of the company’s CADWorx Plant Design Suite plus introductions to CADWorx P&ID, CADWorx fieldPipe and CADWorx fieldPipe for CloudWorx.

COADE Discovery Tour events held worldwide in 2008 attracted record numbers of plant designers and engineers. “Last year’s success and the record numbers we are seeing again this year confirm that these designers and engineers see CADWorx Plant Design Suite as the future of plant design,” explained Paulo Moncores, the business development chief for Latin America, Portugal and Spain at COADE. “These events provide plant designers and engineers with the opportunity to see these plant design tools in person and learn how they will help them improve productivity, eliminate errors and waste, and produce quality deliverables in substantially less time.”

Other COADE Discovery Tour events featuring CADWorx Plant Design Suite are scheduled for June 14th in Doha, Qatar; June 16th and June 17th in Dubai and Abu Dhabi, UAE; August 12th and August 13th in Quito and Guayaquil, Ecuador; and October 13th in Caracas, Venezuela. Details and registration information are available at COADE’s website, <http://www.coade.com>. Information on QPS is at <http://www.qualityprofessionalsoftware.com/>.

 [Click here to return to Contents](#)

### ***Delcam Reseller SEACAM Reports Record Interest at FEIMAFE***

29 May 2009

Delcam’s Brazilian reseller, SEACAM, reported a record level of interest in the company’s software and services at the recent FEIMAFE exhibition held in Sao Paulo from 18th to 23rd May. As well as showing the latest releases of Delcam software, SEACAM mounted a number of live demonstrations that drew the crowds, including a reverse-engineering project on a prototype VW model car and machining a second model car with a KUKA robot.

According to Alexandre Magdalon, Sales and Marketing Manager at SEACAM, the results from the exhibition were much better than expected. “Despite the poor economic climate, we have always been busy presenting technological innovations and generating a large number of new opportunities,” he claimed. “Even so, I was very pleased with the level of interest at FEIMAFE.”

Many of the visitors were from SEACAM’s existing customers, which is not surprising since the company is the leading supplier of CAD/CAM software to the toolmaking and mouldmaking industries in Brazil. They took the opportunity to see the latest enhancements added to the programs, especially the forthcoming release of PowerMILL that promises the most productive toolpath generation ever seen.

“I’ve talked to the biggest machine tool and cutting tool suppliers in the Brazilian market during this trade fair,” added Mr. Magdalon. “Although the numbers of attendees were below those of last year, they were a lot better than many people expected. I hope this shows that our country is preparing to emerge from the crisis sooner than many others.”

The partnerships with these suppliers played an important part in SEACAM’s success at the event. Companies recommending Delcam software to their visitors included DMG, Engraver (Roland dealer in Brazil), Ergomat (Star and Hardinge), HDT (Citizen), Kuka Robots, Mitsui Motion (Fanuk), Sandvik Coromant, TS Techno Speed Motor and Vitor Ciola

 [Click here to return to Contents](#)

## ***Delcam to Show Latest Machining and Inspection Developments in Paris***

27 May 2009

Delcam will demonstrate its latest developments for the machining and inspection of aerospace components on the SBAC stand at the Paris Air Show to be held from 15th to 21st June. These will include the new releases of its PowerMILL machining software for high-speed and five-axis machining, and of the PowerINSPECT inspection software, plus a range of adaptive machining solutions to allow more accurate manufacture and repair of complex components.

The latest release of the PowerMILL CAM system, version 10, offers the fastest-ever toolpath generation on multi-processor computers. It incorporates the latest background-processing and multi-threading technologies, and so uses the full power of recent hardware developments to reduce calculation times and increase output. Other enhancements to further increase productivity include reduced memory usage when programming the largest and most complex parts, and improved ordering to give faster cycle times on the machine tool.

With PowerMILL 10, users can prepare data in the foreground while calculating toolpaths in the background. This eliminates the need for the user to wait for each calculation to be completed before he can start preparing the next operation. Productivity is also increased because the computer can continue with a series of calculations during the user's breaks or even overnight. Calculations can be queued by the operator and the software will automatically start the next operation as soon as each toolpath is generated.

Version 6 of PowerINSPECT includes a range of enhancements to make it easier and more flexible to use. The most obvious change is a completely new interface for undertaking "simple" measurements. This will make it much easier to undertake basic tasks, such as measuring the distance between two points or two planes, or the centres of two circles, or checking the thickness of a section.

A number of improvements have been made to the ways in which data within geometric features can be handled. This will make it easier to see where the problems areas are, especially in bigger parts with large numbers of measurements. It will also be possible to use individual points within multiple features.

Increased flexibility will also come from the new ability to display feature measurements as surface points for comparison with the CAD model. This will make it easier to spot errors when, for example, a circle is perfect in its own dimensions but is not in exactly the correct position on the part.

Delcam will also demonstrate new ways in which machining and inspection can be integrated to give adaptive machining. One example of this integration is electronic fixturing. With this technique, toolpaths are adjusted to match the actual position of the surface of the workpiece, rather than trying to align the part into exactly the nominal position specified in the CAM system. It can overcome the problems encountered when machining large, heavy components or flexible composite panels.

The first stage in this approach is to create a probing sequence in the inspection software, preferably using off-line programming so there is no interruption to the machine tool's cutting time. This sequence is used to collect a series of points from the workpiece, which can be used map the surface of the part. Any mismatch can then be calculated between the nominal position used in the CAM system to generate the toolpaths and the actual position of the workpiece surface in relation to the machine-tool bed. A modified set of toolpaths can then be created within the CAM system that will give accurate machining

of the part.

 [Click here to return to Contents](#)

## ***ESPRIT 2009, by DP Technology, to be Exhibited at PTC User World Event 2009, Orlando, Fla., June 7-10***

22 May 2009

The latest version of computer-aided-manufacturing (CAM) software created by [DP Technology](#) will be on display June 7-10, when ESPRIT® 2009 will be featured at the PTC User World Event 2009 in Orlando, Fla.

The annual PTC User World Event, scheduled to take place this year at the Rosen Shingle Creek Resort, serves up technical training, networking opportunities and exhibitions of imaginative, cutting-edge solutions from leading technology companies.

Showcased at the ESPRIT booth will be ESPRIT 2009, the latest version of the flagship software produced by DP Technology. Representatives of DP will be on hand to answer questions, as well as to demonstrate and discuss new features available in the software.

Most notably for those in attendance at the PTC User World Event, the ESPRIT FX™ feature tree ensures users associativity between Pro Engineer and ESPRIT. ESPRIT has been upgraded to include better rendering and visualization options, and supports multiple CAD models and assemblies. The new associative technology introduced in ESPRIT 2009 is also fully integrated into the ESPRIT FX feature tree, linking design features built inside the CAD system with manufacturing features built inside ESPRIT.

New associative technology in ESPRIT 2009 allows for the recognition of engineering changes made to a part model and the association between the original and changed part. ESPRIT retains the link to the original CAD file as well as a link to the faces utilized for each manufacturing feature created inside ESPRIT. If the CAD model changes, ESPRIT recognizes which faces have been changed, added or deleted, and will update the associated ESPRIT feature and ultimately the manufacturing processes.

For these upgrades and more, be sure to stop by the ESPRIT booth at the PTC User World Event and see how the newest version of the software can increase profits by streamlining your machining.

 [Click here to return to Contents](#)

## ***Gerber Technology Announces Dates and Location for 11th Annual Software Users Conference***

28 May 2009

Gerber Technology has announced the 11th Annual Software Users Conference will be held on October 8-9, 2009 at the Gaylord Texan Resort and Convention Center in Dallas, Texas.

This year's event will feature 1 ½ days of information, training, networking and case studies from leading industry professionals. Attendees will have the opportunity to learn about Gerber's strategic initiatives and product roadmaps, get a first look at new products and feature enhancements, and experience hands-on, interactive demonstrations. Professionals across the apparel and sewn products industries will find useful information and the opportunity to network with peers using Gerber's CAD/CAM (AccuMark®, AccuNest™, CutWorks®) and PLM (webPDM™, webFolio™, webView™)

# CIMdata PLM Industry Summary

---

tools. Executives, designers, merchandisers, CAD operators, systems engineers, IT management and employees in sourcing, production and sales have all found Gerber Technology's Software Users Conference beneficial.

"The annual users conference is always the highlight of our year", said Bill Brewster, VP Global Marketing and Product Management at Gerber Technology. "We feel it's a great opportunity to talk with our customers, exchange ideas and provide valuable information such as the future direction and strategic initiatives of Gerber. The conference has also become an arena to give our customers a first hand look at the latest releases of our PLM and CAD solutions."

Up to date information on the conference can be found at <http://www.gerbertechnology.com/usersconference.htm>.

 [Click here to return to Contents](#)

## ***KOMPAS-3D at Australia's Leading Industrial Exhibition***

26 May 2009

ASCONE's KOMPAS-3D for three-dimensional solid modelling and KOMPAS Graphic for two-dimensional drafting, design were presented at National Manufacturing Week 2009, a stage for the latest products and constantly evolving technologies in the expanding manufacturing market.

From the 12<sup>th</sup> to the 15<sup>th</sup> of May, Paul van Munster - [ASCONE](#) partner and KOMPAS reseller in Australia and New Zealand showcased the modern, professional and cost-effective KOMPAS software in Melbourne to market leaders from a wide selection of Australian and international manufacturing communities. Visitors at the fair from different industries: general engineering and manufacturing, machinery and equipment, metal products, metal working, tooling and others appreciated KOMPAS' powerful, easy-to-use and learn features, wide range of collaboration abilities with others CAD products, set of specialized add-ons for the software, as well as cost-effectiveness.

 [Click here to return to Contents](#)

## ***NEi Software Shows Advanced Simulation Tools for Pro/E Users at PTC World Event Conference 2009***

27 May 2009

NEi Software (NEi) will demonstrate various advanced simulation options available to Pro/ENGINEER users at the PTC/USER World Event 2009. Highly accurate NEi Nastran solvers can work directly with PTC's Pro/ENGINEER Mechanical; or, pre and post processors Femap®, and NEi Fusion™ powered by NEi Nastran can import Pro/ENGINEER files to perform linear and nonlinear analysis. The event takes place at the Rosen Shingle Creek Hotel in Orlando, FL, June 7-10. NEi Software is at Booth #523. Simulation technology developed by NEi solves engineering problems for 3D CAD parts and assemblies subjected to structural or thermal loads. The graphic results and animations provide product designers, engineers and analysts with insight on stress, deformation, vibration and heat transfer, allowing them to catch problems and optimize parts early in the development cycle before prototypes or parts are fabricated. The emphasis on cost reduction in today's economy has heightened interest in NEi's engineering analysis and simulation software because it typically shows a high Return on Investment (ROI).

# CIMdata PLM Industry Summary

---

New virtual testing tools in NEi's portfolio include:

[Automated Impact Analysis \(AIA™\)](#) and Drop Test for performing implicit, nonlinear impact tests on projects ranging from military projectiles to product packaging and drop testing of consumer electronic products

[Design Optimization](#) finds solutions to complex problems with multiple geometric options and competing engineering parameters as occurs in the design of strong but light structures

[Automated Surface Contact Generation \(ASCG™\)](#) provides real world fidelity with true 3D contact while removing complexity and manpower from the task

[Automated Edge Connection Generation \(AECG™\)](#) is a major productivity tool for speeding model creation for shell type structures like, cars, ships, and aircraft

Advanced Failure Criteria using modern theories like Puck and LaRC02 finds first ply failure in [composite structures](#), such as carbon fiber and epoxy laminates

[Progressive Ply Failure Analysis \(PPFA™\)](#) takes composite engineering a step further by revealing how damage is propagated through laminated structures allowing for further optimization

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

## Financial News

### *AVEVA Preliminary Results Year End 31 March 2009*

26 May 2009

AVEVA Group plc announced its audited results for the year ended 31 March 2009.

#### **Highlights**

- Strong growth in revenue, profit and cash reflecting the leadership position of our products in Marine, Oil & Gas and Power markets
- Revenue increased by 29% to £164.0 million (2008 - £127.6 million)
- Recurring revenue up 42% to £94.2 million (2008 - £66.1 million) representing 57% (2008 - 52%) of total
- Investment in Research and Development up 28% to £27.3 million (2008 - £21.3 million)
- Adjusted profit before tax increased by 31% to £62.6 million (2008 - £47.9 million)\*
- Profit before tax up 32% to £59.2 million (2008 - £45.0 million)
- Adjusted basic earnings per share up 22% to 67.33 pence (2008 - 55.22 pence)\*
- Basic earnings per share up 23% to 62.27 pence (2008 - 50.80 pence)
- Final dividend increased by 30% to 6.5 pence (2008 - 5.0 pence) bringing the full year dividend to 9.36 pence

# CIMdata PLM Industry Summary

---

- Net cash at the year end of £126.2 million (2008 - £82.8 million), an increase of 52%, reflecting continued strong cash generation

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

Commenting on the outlook, Chairman Nick Prest said:

"The sustained and considerable investment made by the Group over the past few years in developing our product range and expanding our geographical presence will ensure AVEVA maintains its position as a world leader in the markets in which it operates.

"As the current global economic slowdown continues and the oil price and shipping rates sit at lower levels than in recent years, some projects are now being postponed or cancelled, awaiting project funding or visibility of more certain times. Against this backdrop, AVEVA's customer relations and best in class products will remain ever more important and will help to maintain levels of recurring revenue and exploit new opportunities.

"The restructuring programme already initiated means that AVEVA is better equipped to successfully trade through the difficult trading environment whilst allowing the Company to invest selectively in already identified important growth opportunities, for example with regard to AVEVA NET and in South America and the CIS."

The full Preliminary Results Statement and Investor Presentation may be downloaded from the [Investor Information](#) page.

 [Click here to return to Contents](#)

## ***Cimatron Reports Financial Results for the First Quarter of 2009***

26 May 2009

Cimatron Limited announced financial results for the first quarter of 2009.

The following provides details on Cimatron's GAAP and non-GAAP figures in the first quarter of 2009:

There is no difference between GAAP and non-GAAP revenues in 2009. Revenues on a non-GAAP basis in 2008 excluded the effect of business combination accounting rules on the acquired deferred maintenance revenue balance of Gibbs System Inc. that was merged into Cimatron in early 2008. Expenses on a non-GAAP basis in 2009 and 2008 exclude the non-cash amortization of acquired intangible assets of Microsystem and Gibbs, and the effect of deferred taxes.

### **GAAP:**

Revenues for the first quarter of 2009 were \$7.8 million, compared to \$10.0 million recorded in the first quarter of 2008.

Gross Income for the first quarter of 2009 was \$6.3 million as compared to \$8.0 million in the same period in 2008. Gross margin in the first quarter of 2009 was 81% of revenues, compared to gross margin of 80% in the first quarter of 2008.

Operating loss in the first quarter of 2009 was \$(512) thousand, compared to an operating loss of \$(218) thousand in the first quarter of 2008.

Net Loss for the first quarter of 2009 was \$(563) thousand, or \$(0.06) per diluted share, compared to net

# CIMdata PLM Industry Summary

---

loss of \$(298) thousand, or \$(0.03) per diluted share recorded in the same quarter of 2008.

## **Non-GAAP:**

Revenues on a non-GAAP basis for the first quarter of 2009 were \$7.8 million, compared to \$10.3 million recorded in the first quarter of 2008.

Gross Income on a non-GAAP basis for the first quarter of 2009 was \$6.5 million as compared to \$8.4 million in the same period in 2008. Gross margin in the first quarter of 2009 was 83% of revenues, compared to 82% in the first quarter of 2008.

Operating Loss on a non-GAAP basis in the first quarter of 2009 was \$(265) thousand, compared to an operating income of \$277 thousand in the first quarter of 2008.

Net loss on a non-GAAP basis for the first quarter of 2009 was \$(407) thousand, or \$(0.04) per diluted share, compared to a net income of \$235 thousand, or \$0.02 per diluted share recorded in the same quarter of 2008.

Commenting on the results, Danny Haran, President and Chief Executive Officer of Cimatron, said, "As our products address markets that have been affected by the current economic downturn, the first quarter of 2009 was very challenging, in line with our expectations. We are witnessing significant softness in all our markets, especially when it comes to closing new deals. Prospects and customers tend to delay purchasing decisions until they feel more confident with their own business. However, maintenance revenues continue to hold up well, and we are pleased that despite a significant decrease in revenues as compared to the parallel quarter in 2008, the effect on the bottom line is less significant, reflecting the steps we took to control expenses and preserve cash. As we cannot predict when the market will turn around, we will continue to closely monitor our expenses level. At the same time, we continue to invest in product development and marketing, activities we believe are essential for gaining market share, especially during difficult economic periods." concluded Mr. Haran.

## **Conference Call**

Cimatron's management will host a conference call today, May 26th, 2009 at 9:00 EST, 16:00 Israel time. On the call, management will review and discuss the results, and will answer questions by investors.

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](#)

## ***Magma Reports Revenue of \$147.0 Million for Fiscal 2009***

27 May 2009

Magma® Design Automation Inc. reported revenue of \$34.1 million for its fourth quarter and \$147.0 million for its 2009 fiscal year, both ended May 3, 2009.

"In Q4 we exceeded our key financial guidance ranges and re-established positive cash flow," said Rajeev Madhavan, chairman and CEO of Magma. "I anticipate our product teams will continue to deliver innovative technology advancements in fiscal 2010, such as the new Talus® COre™ technology we announced today."

## **GAAP Results**

# CIMdata PLM Industry Summary

---

In accordance with generally accepted accounting principles (GAAP), Magma reported a net loss of \$(8.8) million, or \$(0.19) per share (basic and diluted), for the fourth quarter, compared to a net loss of \$(7.2) million, or \$(0.17) per share (basic and diluted), for the year-ago fourth quarter. For fiscal 2009 Magma reported a GAAP net loss of \$(127.1) million, or \$(2.84) per share (basic and diluted), compared to a net loss of \$(30.8) million, or \$(0.76) per share (basic and diluted), for fiscal 2008.

## **Non-GAAP Results**

Magma's non-GAAP net income was \$3.1 million for the quarter, or \$0.07 per share (basic and diluted), which compares to non-GAAP net income of \$8.0 million, or \$0.17 per share (diluted), for the year-ago fourth quarter. For fiscal 2009 Magma's non-GAAP net loss was \$(6.7) million, or \$(0.15) per share (basic and diluted), compared to the company's non-GAAP net income of \$27.1 million, or \$0.58 per share (diluted), for the year-ago fiscal year.

Non-GAAP net income for the fourth quarter and full fiscal year of fiscal 2009 excludes the effects of amortization of developed technology, amortization of intangible assets, stock-based compensation, amortization of debt issuance costs and debt discount accretion, charges associated with losses on equity investments and other investments, restructuring charges, asset impairment charges, acquisition-related expenses and the related provision for income taxes. Non-GAAP net income for the fourth quarter and full fiscal year of fiscal 2008 excludes the effects of amortization of developed technology, amortization of intangible assets, stock-based compensation, in-process research and developed technology, litigation settlement and related legal expenses, amortization of debt issuance costs and debt discount accretion, acquisition-related expenses, charges associated with losses on equity investments and the related provision for income taxes. A reconciliation of our non-GAAP results to GAAP results is included in the [unabridged press release](#).

In the fourth quarter Magma generated cash flow from operations of approximately \$5.5 million.

## **Business Outlook**

For Magma's fiscal 2010 first quarter, ending Aug. 2, 2009, the company expects total revenue in the range of \$27.5 million to \$28.5 million. GAAP net loss per share is expected to be in the range of \$(0.20) to \$(0.19) and non-GAAP earnings per share (EPS) are expected to be in the range of \$0.00 to \$0.01. For Magma's fiscal 2010, ending May 2, 2010, the company expects total revenue in the range of \$120.0 million to \$125.0 million. GAAP net loss per share is expected to be in the range of \$(0.70) to \$(0.68) and non-GAAP earnings per share (EPS) are expected to be in the range of \$0.01 to \$0.03. A schedule showing a reconciliation of the projected non-GAAP EPS to GAAP EPS results is included in the full press release. A Financial Data Supplement containing additional first quarter and full fiscal year 2010 guidance, as well as detailed financial information intended to provide guidance and further insight into our business is available online in the Investor Relations section of the Magma website. All guidance issued by the company before May 27, 2009 is no longer in effect.

## **GAAP Reconciliation**

Magma provides non-GAAP financial information to assist investors in assessing its current and future operations in the way that Magma's management evaluates those operations. Magma believes that this non-GAAP information provides useful information to investors by excluding the effect of some expenses that are required to be recorded under GAAP but that Magma believes are not indicative of Magma's core operating results, or that are expected to be incurred over a limited period of time.

Magma's management evaluates and makes operating decisions about its business operations primarily

# CIMdata PLM Industry Summary

---

based on bookings, revenue and the core costs of those business operations. Management believes that the amortization of developed technology and intangible assets, stock-based compensation, in-process research and development expenses, amortization of debt issuance costs, debt discount accretion, charges associated with losses on equity and other investments, acquisition-related expenses, litigation settlement and related legal expenses, and the related provision for income taxes, and other significant unusual items are not operating costs of its core software and service business operations. Therefore, management presents non-GAAP financial measures, along with GAAP measures, in this earnings release by excluding these items from the period expenses. The income statement line items affected are as follows: (1) cost of revenue, licenses; (2) cost of revenue, bundled licenses and services; (3) cost of revenue, services; (4) operating expenses, research and development; (5) operating expenses, in-process research and development; (6) operating expenses, sales and marketing; (7) operating expenses, general and administrative; (8) operating expenses, amortization of intangible assets; (9) operating expenses, restructuring charge; (10) other income (expense), net; (12) Provision for income taxes and (13) net income (loss) per share.

For each such non-GAAP financial measure, the adjustment provides management with information about Magma's underlying operating performance that enables a more meaningful comparison of its financial results in different reporting periods. For example, since Magma does not acquire businesses on a predictable cycle, management excludes acquisition-related charges, such as in-process research and development charges, to make more consistent and meaningful evaluations of Magma's operating expenses. Similarly, since Magma does not undertake significant restructuring or realignments on a predictable cycle, management would have difficulty evaluating Magma's profitability as measured by gross profit, operating profit, income before taxes and net income on a period-to-period basis unless it excluded these charges. Management also uses these measures to help it make budgeting decisions between those expenses that affect operating expenses and operating margin (such as research and development, sales and marketing, and general and administrative expenses), and those expenses that affect cost of revenue and gross margin (such as product development expenses).

Further, the availability of non-GAAP financial information helps management track actual performance relative to financial targets, including both internal targets and publicly announced targets. Making this non-GAAP financial information available also helps investors compare Magma's performance with the announced operating results of its principal competitors, which regularly provide similar non-GAAP financial information.

Management recognizes that the use of these non-GAAP measures has limitations, including the fact that management must exercise judgment in determining whether some types of charges, such as stock-based compensation relating to stock grants and acquisition related charges, should be excluded from non-GAAP financial measures. Management believes, however, that providing this non-GAAP financial information facilitates consistent comparison of Magma's financial performance over time. Magma has historically provided non-GAAP results to the investment community, not as an alternative but as a supplement to GAAP information, to enable investors to evaluate Magma's core operating performance in the way that management does.

## **Conference Call**

Magma will discuss the financial results for the recently completed quarter and year, along with forward-looking guidance, during a live earnings call today at 2 p.m. PDT.

Following completion of the call, a webcast replay of the call will be available at <http://investor.magma-da.com/medialist.cfm> through June 3, 2009. Those without Internet access may listen to a replay of the

# CIMdata PLM Industry Summary

---

call by telephone until 11:59 p.m. PDT on June 3 by calling:

U.S. & Canada: (888) 203-1112, code #8860034

Elsewhere: (719) 457-0820, code #8860034

 [Click here to return to Contents](#)

## ***Mentor Graphics Reports Fiscal First Quarter Results***

29 May 2009

Mentor Graphics Corporation announced results for the fiscal first quarter 2010, ending April 30, 2009. For the quarter, the company reported revenues of \$193.8 million, non-GAAP earnings per share of \$.09, and a GAAP loss per share of \$.14. Bookings for the quarter rose 25% over the prior fiscal first quarter.

“We believe the semiconductor market has stabilized, and that customers who wish to remain competitive will sustain most of their design effort,” said Walden C. Rhines, CEO and chairman of Mentor Graphics. “Mentor’s investments in markets adjacent to traditional EDA helped drive the quarter’s results with 10% of total bookings from transportation companies and 5% from the thermal analysis market. The quarter’s strength was across Mentor’s broad customer base within EDA, spanning both semiconductor and systems companies. Systems companies contributed to a 55% increase in bookings for our Integrated Systems Design division, while semiconductor companies drove a 35% increase in IC Design to Silicon division bookings.”

During the quarter, the company extended its transportation product portfolio with new offerings for AUTOSAR in-vehicle network design and for specialty vehicle electrical wire harness design. Addressing low-power design issues in integrated circuits, the Olympus-SoC™ place and route tool can now help designers save 30% in power versus traditional design techniques and achieve design closure two to three times faster. The Calibre® 3D variability solution allows designers to address the growing problem of thickness variability caused by chemical mechanical polishing (CMP) at advanced nodes. The new FloEFD™ 9.0 product allows mechanical designers to easily analyze thermal effects of products directly from their mechanical design environment. The HyperLynx® power integrity product allows designers of printed circuit boards to better plan their power requirements. In addition, the design-for-test tool TestKompress® won Test and Measurement World’s Test of Time Award, and the RF Design solution, jointly developed with Agilent, won EDN magazine’s Innovation Award for the electronic design automation category.

“Our guidance for the second quarter is the result of a lower renewal portfolio for the quarter, and an expectation that in this environment, customers will not renew early,” said Gregory K. Hinckley, president of Mentor Graphics. “We continue to manage costs aggressively, with a year-on-year decline in the first quarter in non-GAAP total expenses of about \$7 million, and expect further reductions in the second quarter.”

## **Outlook**

For the second quarter fiscal 2010, the company has no significant contract renewals scheduled. Given that, the company expects second quarter revenues of about \$165 million, a non-GAAP loss per share of about \$.10, and a GAAP loss per share of about \$.41. The dollar value of contracts expiring in fiscal 2010 is a record; however, most of the contracts expire late in the year.

# CIMdata PLM Industry Summary

---

## **Adoption of FASB Staff Position APB 14-1**

During the first quarter of fiscal 2010, Mentor Graphics adopted FASB Staff Position Accounting Principles Board Opinion 14-1, "Accounting for Convertible Debt Instruments That May Be Settled in Cash upon Conversion (Including Partial Cash Settlement)" (FSP APB 14-1). FSP APB 14-1 requires retroactive application to all prior periods reported. Accordingly, we have adjusted the applicable prior period balance sheets, statements of operations including net income (loss) per share, and statements of cash flows to reflect the adjusted balance of the convertible notes and related items, and to record the amortization of the discount on the convertible notes as a non-cash interest expense. A reconciliation of our adjusted Condensed Consolidated Balance Sheets as of January 31, 2009, our adjusted Condensed Consolidated Statements of Operations and our adjusted Condensed Consolidated Statements of Cash Flows for the three months ended April 30, 2008 to their original filings is included with this release.

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

Mentor Graphics management evaluates and makes operating decisions using various performance measures. In addition to our GAAP results, we also consider adjusted gross margin, operating margin and net income (loss), which we refer to as non-GAAP gross margin, operating margin, and net income (loss), respectively. These non-GAAP measures are derived from the revenues of our product, maintenance, and services business operations and the costs directly related to the generation of those revenues, such as cost of revenue, research and development, sales and marketing, and general and administrative expenses, that management considers in evaluating our ongoing core operating performance. These non-GAAP measures exclude amortization of purchased and other identified intangible assets, special charges, equity plan-related compensation expenses and charges, interest expense attributable to net retirement premiums or discounts on the early retirement of debt and associated debt issuance costs, interest expense associated with the amortization of debt discount on convertible debt recorded under FSB APB 14-1, impairment of cost method investments, and the equity in income or losses of unconsolidated entities, which management does not consider reflective of our core operating business.

Purchased and other identified intangible assets consist primarily of purchased technology, backlog, trade names, customer relationships, and employment agreements. Special charges primarily consist of costs incurred for employee terminations due to a reduction of personnel resources driven by modifications of business strategy or business emphasis. Special charges may also include expenses incurred related to potential acquisitions, excess facility costs, asset-related charges, post-acquisition rebalance costs and restructuring costs, including severance and benefits. Equity plan-related compensation expenses represent the fair value of all share-based payments to employees, including grants of employee stock options, as required under Statement of Financial Accounting Standards No. 123 (revised 2004), "Share-Based Payment" (SFAS 123R). For purposes of comparability across other periods and against other companies in our industry, non-GAAP net income (loss) is adjusted by the amount of additional taxes or tax benefit that we would accrue using a normalized effective tax rate applied to the non-GAAP results.

Management excludes from our non-GAAP measures certain recurring items to facilitate its review of the comparability of our core operating performance on a period-to-period basis because such items are not related to our ongoing core operating performance as viewed by management. Management considers our core operating performance to be that which can be affected by our managers in any particular period through their management of the resources that affect our underlying revenue and profit-generating operations during that period. Management uses this view of our operating

## CIMdata PLM Industry Summary

---

performance for purposes of comparison with our business plan and individual operating budgets and allocation of resources. Additionally, when evaluating potential acquisitions, management excludes the items described above from its consideration of target performance and valuation. More specifically, management adjusts for the excluded items for the following reasons:

- Amortization charges for our purchased and other identified intangible assets are inconsistent in amount and frequency and are significantly impacted by the timing and magnitude of our acquisition transactions. We therefore consider our operating results without these charges when evaluating our core performance. Generally, the most significant impact to inter-period comparability of our net income (loss) is in the first twelve months following an acquisition.
- Special charges are incurred based on the particular facts and circumstances of acquisition and restructuring decisions and can vary in size and frequency. These charges are not ordinarily included in our annual operating plan and related budget due to the unpredictability of economic trends and the rapidly changing technology and competitive environment in our industry. We therefore exclude them when evaluating our managers' performance internally.
- We view equity plan-related compensation as a key element of our employee retention and long-term incentives, not as an expense that we use in evaluating core operations in any given period. Management also believes this information is useful to investors to compare our performance to the performance of other companies in our industry who present non-GAAP results adjusted to exclude stock compensation expense.
- Interest expense attributable to net retirement premiums or discounts on the early retirement of debt, the write-off of associated debt issuance costs and the amortization of the debt discount on convertible debt were excluded. Management does not consider these charges as a part of our core operating performance. The early retirement of debt and the associated debt issuance costs are not included in our annual operating plan and related budget due to unpredictability of market conditions which could facilitate an early retirement of debt. We consider the amortization of the debt discount on convertible debt recorded under FSP APB 14-1 not to be a direct cost of operations. We also believe this presentation is more useful to investors in comparing our performance to the performance of other companies in our industry who present non-GAAP results adjusted to exclude such items.
- Impairment of cost method investments can occur when the fair value of the investment is less than its cost. This can occur when there is a significant deterioration in the investee's earnings performance, significant adverse changes in the general market conditions of the industry in which the investee operates, or indications that the investee may no longer be able to conduct business. These charges are inconsistent in amount and frequency. We therefore consider our operating results without these charges when evaluating our core performance.
- Equity in income or losses of unconsolidated subsidiaries represents the net income (losses) in an investment accounted for under the equity method. The amounts represent our equity in the net income (losses) of a common stock investment. The carrying amount of our investment is adjusted for our share of earnings or losses of the investee. The amounts were excluded as we do not influence or control the results of operations for these investments and management does not consider this activity a part of our core operating performance.
- Income tax expense (benefit) is adjusted by the amount of additional tax expense or benefit that we would accrue if we used non-GAAP results instead of GAAP results in the calculation of our tax liability, taking into consideration our long-term tax structure. We use a normalized effective tax rate of

## CIMdata PLM Industry Summary

---

17%, which reflects the weighted average tax rate applicable under the various tax jurisdictions in which we operate. This non-GAAP weighted average tax rate is subject to change over time for various reasons, including changes in the geographic business mix and changes in statutory tax rates. Our GAAP tax rate for the three months ended April 30, 2009 is (27%), after the consideration of discrete items. Without discrete items of \$(2,037) thousand, our GAAP tax rate is (47%). Inclusive of discrete items, our full fiscal year 2010 GAAP tax rate is projected to be (48%). The GAAP tax rate considers certain mandatory and other non-scalable tax costs which may adversely or beneficially affect our tax rate depending upon our level of profitability.

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

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

- Amortization of purchased intangibles represents the loss in value as the technology in our industry evolves, is advanced, or is replaced over time. The expense associated with this loss in value is not included in the non-GAAP net income (loss) presentation and therefore does not reflect the full economic effect of the ongoing cost of maintaining our current technological position in our competitive industry, which is addressed through our research and development program.
- We regularly engage in acquisition and assimilation activities as part of our ongoing business and regularly evaluate our businesses to determine whether any operations should be eliminated or curtailed. We therefore will continue to experience special charges on a regular basis. These costs also directly impact our available funds.
- We perform impairment analyses on cost method investments when triggering events occur and adjust the carrying value of assets when we determine it to be necessary. Impairment charges could therefore be incurred in any period.
- Our stock option and stock purchase plans are important components of our incentive compensation arrangements and will be reflected as expenses in our GAAP results under SFAS 123R.
- Our income tax expense (benefit) will be ultimately based on our GAAP taxable income and actual tax rates in effect, which often differ significantly from the 17% rate assumed in our non-GAAP presentation.

- Other companies, including other companies in our industry, calculate non-GAAP net income (loss) differently than we do, limiting its usefulness as a comparative measure.

For the unabridged press release containing financial tables access [http://www.mentor.com/company/news/upload/Q1FY10-release\\_pdf](http://www.mentor.com/company/news/upload/Q1FY10-release_pdf)

 [Click here to return to Contents](#)

## Implementation Investments

### *Altrust Switches its CAD Systems to ZWCAD*

26 May 2009

Altrust Precision Tooling Co. Ltd. is one of the top 10 mold manufacturers in Asia and is ISO-certified. For more than 15 years the company has been specializing in product design, mold making, machining, assembly, and prototyping.

Its products range from household appliances and office equipment to communication facilities and accessories for automobiles and motorcycles. These products sell well at home and abroad, and have won a good reputation amongst its customers. Recently, Altrust selected ZWCAD from ZWSOFT as its primary design tool.

Mold making is at the top end of the manufacturing industry, and is usually characterized by high productivity, high maximum efficiency, and technical competence. With the recent downturn in the economy, Altrust found it necessary to examine its processes in order to maintain its leading position in the mold making industry and meet the requirements of its customers.

Prior to 2006, Altrust introduced numerous CAD software packages to its design and production departments.

### **Altrust Adopts ZWCAD**

In order to expand its business more efficiently, Altrust began to look for a single, more advanced CAD system that was capable of handling its mold making needs. Commencing in February 2006, Altrust evaluated [ZWCAD](#) through a series of intense benchmark tests. Following a successful outcome, Altrust selected ZWCAD as its main design tool. It found ZWCAD to be superior in the areas of DWG compatibility, program stability, speed, and five-star service.

Altrust employs more than 200 engineers and designers in its R&D (research and development), engineering, and production departments. All are now taking advantage of the capabilities of ZWCAD for designing and modifying application modules for use in technical support and production.

The application development at Altrust falls into two parts: 'module design' and 'module parts'. In the first, engineers are migrating all of the functionality and designs from the other CAD platforms; in the second, they are developing new functionality on the ZWCAD platform.

Due to the strong technical support provided by ZWSOFT, Altrust was able to solve many technical problems, thereby ensuring that model customization continued smoothly.

"ZWCAD has the powerful features and high performance that we were looking for. Our engineers find that they work very easily and conveniently with it, due to its compatibility with and similarity to AutoCAD," said Mr. Xie Ye Qing, Director of Altrust's R&D department. "What's more, we found great

innovations in ZWCAD, such as its dynamic input capability.”

"Due to ZWCAD's fast upgrade schedule and rapid development program, since our first installation in 2008 we have now commissioned it on most of our computers," he continued. "What we particularly like is the API (application programming interface). The R&D department is now testing the speed and performance of ZWCAD's APIs so that we can gradually move all of our processes to the ZWCAD platform.”

 [Click here to return to Contents](#)

## ***ANSYS Software Enhances Design to Keep Flood Waters at Bay; Pumping Platforms Designed Using Engineering Simulation Software Withstand Hurricane Forces***

27 May 2009

ANSYS, Inc. announced that its software has been successfully used to build pumping station platforms in storm-prone New Orleans. Engineers charged with improving water drainage pumping capacity faced a number of design challenges. Because the platforms are partially submerged, all design problems had to be identified and addressed before any construction began. In addition, the project needed to be completed prior to the onset of hurricane season. Work was contracted after one of the costliest and deadliest hurricanes in the United States, Katrina, devastated the Gulf Coast. When Category 2 hurricane Gustav hit in 2008, the platforms and pumps successfully kept flood waters in check, validating the accuracy of the ANSYS® simulation results.

When a hurricane or other major weather event hits, high-power pumping units must work at full capacity to drain excess water out of sub-sea level New Orleans. The heavy equipment — turbine pumps, diesel engines, gearboxes and associated piping — produce vibrations and other stresses that can cause the massive platforms supporting the equipment to fail. Design and analysis consultant Mechanical Solutions, Inc. (MSI), working for the platform design-build contractor Weston Solutions, Inc., used software from ANSYS to simulate these stresses in the pumping platform along the 17th Street Canal, ensuring that the system would perform optimally during storms.

Simulation-driven design using [ANSYS](#) software allows companies to determine potential problems early in the design phase, long before a structure or product is built. In addition, many different design modifications can be rapidly simulated and the corresponding effects assessed. “Our approach with every project is to bring value to the table by identifying and mitigating risk early on to reduce the potential for costly modifications after construction has been completed. By using software from ANSYS to simulate the vibrational response of the platform, we were confident that the pumping system would perform optimally, and it did,” said William J. Kelly, principal engineer, Mechanical Solutions, Inc. “In addition, engineering simulation helped us meet a rigid deadline by identifying issues early in the design process so that the platform could be completed before hurricane season.”

[MSI](#) used its well-practiced design audit approach to characterize and predict the behavior of the system's structural natural frequencies and vibration levels at various locations. The team accounted for soil conditions expected to play a role in the system platform's vibrational response. Engineers performed analyses to assess forces imparted to the platform by the diesel engines, gearboxes and pumps. MSI also analyzed frequencies up to 120 hertz, which corresponded to the cylinder firing frequency for the diesel engines, and they accounted for rotating imbalance loads and phase conditions imposed by the gears and pump impellers. The results indicated that the worst-case loading occurred when the imbalance loads of all 11 pumps were in phase. Finally, MSI performed an acoustic evaluation

of the discharge piping to assess the potential for acoustic resonance within the 9-foot diameter manifolds leading to the lake.

[!\[\]\(144bd6ca55a232a7ce6ff9d490e451c8\_img.jpg\) Click here to return to Contents](#)

## ***CENIT Implements Sweeping PLM Project at Vossloh***

27 May 2009

Vossloh Fastening Systems GmbH, one of the leading enterprises in the fields of railway infrastructure and technology, recently opted for [CENIT](#) as its IT partner in introducing a product lifecycle management (PLM) system. The two Dassault Systèmes solutions CATIA and ENOVIA serve as the system's software basis. Among other duties, CENIT's mandate was to replace the existing CAD system, which could no longer fulfill the growing design and toolmaking requirements of the globally active enterprise.

When candidate PLM systems were evaluated, it quickly became clear that the PLM solution CATIA was the ideal answer to Vossloh's current and future requirements. Particularly CATIA's end-to-end process coverage, from design and toolmaking to analysis and manufacturing, convinced the technical departments at Vossloh and led to a decision in favor of this 3D PLM solution. As a long-standing Dassault Systèmes VAR partner and PLM specialist with plenty of experience in the addressed customer requirements, CENIT was able to implement a total PLM system in coordination with Vossloh. This also involved expanding the CATIA V5 workstations by solutions for technical documentation such as the 3DVIA Composer by Dassault Systèmes, as well as the ENOVIA DMU Viewer for cross-board enterprise communication.

Particularly the 3DVIA Composer has given Vossloh's designers and development departments an enormous efficiency boost in their day-to-day operations. It permits automated publishing of all forms of product documentation and thus considerably accelerates the documentation process. The end result: significantly shorter rollout cycles.

The system was up and running smoothly after just four months – evidence that Vossloh consciously and strategically chose an end-to-end service package.

From consulting to implementation to training services for the affected Vossloh staff, CENIT's experts were able to fulfill all requirements on schedule.

[!\[\]\(a30b5314efefb0416f322d92d9011828\_img.jpg\) Click here to return to Contents](#)

## ***Colorado Department of Transportation Chooses AutoTURN***

27 May 2009

Transoft Solutions, developers of software for the engineering and architectural communities, announced the Colorado Department of Transportation (CDOT) has chosen AutoTURN as its swept-path analysis software choice and has switched from a competing application. CDOT joins more than 85% of North American Departments of Transportation currently using Transoft Solutions' seminal AutoTURN.

The Colorado Department of Transportation services a highway and road network that handles over 28.6 billion vehicle miles of travel annually. In addition to the 9161 miles of highways, CDOT's Transit Unit provides assistance to numerous transit systems in Colorado. With a mission to provide the best multi-

# CIMdata PLM Industry Summary

---

modal transportation system that most effectively moves people, goods, and information, the highest quality of road design is essential.

For the Colorado Department of Transportation, the decision to switch to AutoTURN gained momentum after Margaret Gochngbok, Regional Account Manager, conducted a presentation at their Denver offices. Following the presentation, members of CDOT commented on their preference for AutoTURN's stability, user-friendliness, and customizable features over their previous software. In a follow up conversation with Ms. Gochngbok, the members of the evaluation group remarked that they were impressed with all of the features and functionality of AutoTURN but it was the service and support provided by Transoft Solutions that made the decision to switch an easy one.

For further information about AutoTURN or any of Transoft Solutions' suite of productivity enhancing tools, training solutions, or to download free software demos or sign up for web-based demonstrations, visit <http://www.transoftsolutions.com>.

 [Click here to return to Contents](#)

## ***Delcam's ArtCAM Used for Giant Chandeliers***

29 May 2009

Delcam's ArtCAM software enabled Adirondack Studios to complete successfully a project to produce five giant chandeliers for the Mohegan Sun Casino at Pocono Downs, Pennsylvania.

For over 30 years, Adirondack Studios, based in Argyle, New York, has helped to design and build themed environments for theatres, arenas, exhibit halls, ballrooms, parks, restaurants, casinos, amusement parks, supermarkets, museums, stadia and marinas. About a year ago, the company began using the ArtCAM artistic CAD/CAM software to program the CNC routers used to manufacture the majority of the company's products.

"The software that we used in the past for CNC programming worked fine for routine jobs but many of the projects that we get involved in are far out of the ordinary," said Bob Gregory, Senior Router Operator. "We spent too much time watching the clock while we were machining and ran into quite a few bugs. Also, the software developer was not as responsive as we wished when we called in for support."

"We had heard that a number of our competitors were using ArtCAM with very good results so we decided to give it a try," Mr. Gregory continued. "From the very beginning we felt that ArtCAM was a more finished product, more robust, with much higher performance. The tutorials make it very easy to take advantage of the many advanced features of the software. The support provided by Delcam has been superlative and they do listen to, and implement, user suggestions for improving the software."

Adirondack Studios' designers began the construction of the chandeliers by building a 3D model in AutoCAD. The file was imported into ArtCAM to generate the CNC program to machine a positive shape in low-density foam. This was used by a subcontractor to vacuum-form the plastic bowl segments. These were then painted to look like alabaster.

In a similar way, the casting department used ArtCAM to make a mould to cast the grouse models that would be used to decorate the chandeliers. A black-tinted silicone rubber was used to give the grouse the appearance of wrought iron.

The next step was to create a bird's nest pattern and weave it around the circumference of the bowl.

# CIMdata PLM Industry Summary

---

ArtCAM allowed the ways in which the strands crossed each other to be varied for a more natural appearance. "Birds do not use a CNC machine to build their nests so it took considerable effort to get the correct look," Mr. Gregory said.

Mr. Gregory generated a CNC program to cut the bird's nest negative shape into MDF. It took only fifteen minutes to create the program compared with at least four hours that would have been needed with the previous software. The mould was used to cast the bird's nests from the same silicon rubber used for the grouse. Finally, the birds and the nests were glued to the bowl of each chandelier.

The finished chandeliers were then installed in the casino. They formed part of a \$208-million renovation of the site, aimed at transforming it into the area's leading entertainment complex.

 [Click here to return to Contents](#)

## ***Exar Selects Synopsys as Its Leading EDA Partner***

26 May 2009

Synopsys, Inc. announced that Exar Corporation, a leading provider of analog and mixed-signal solutions for connectivity and power management, has signed an expanded business agreement to establish Synopsys as its leading EDA partner. As a result of the new multi-year agreement, the Synopsys' Galaxy™ Implementation and Discovery™ Verification platforms will be Exar's key design environment for designs at 65-nanometers (nm) and below.

"We conducted an extensive evaluation process to select an EDA partner to not only support our current project needs, but our future design horizon as well, and Synopsys was the clear choice," said George Apostol, senior vice president and CTO, Exar Corporation. "Over the years, Synopsys has demonstrated the technology leadership and outstanding technical support that is vital to helping us deliver highly differentiated silicon solutions to our customers. Synopsys tools, especially for mixed-signal designs, are ideal for our forthcoming data communications, storage, interface and power management products."

With the most recent agreement, Exar has chosen products that span Synopsys' broad portfolio. These products include Synopsys' Galaxy implementation platform featuring IC Compiler place-and-route technology, Design Compiler® Graphical synthesis, PrimeTime® PX timing and power analysis, PrimeRail power network analysis, Star-RCXT™ parasitic extraction, Hercules™ physical verification, TetraMAX® automatic test pattern generation, and DFT MAX adaptive scan compression; Synopsys' Discovery verification platform featuring the VCS®, HSPICE®, HSPICE RF and CustomSim™ simulators for analog and digital verification, MVRC static voltage-aware verification, and MVSIM voltage-aware simulation; and DesignWare® Library IP.

"Companies like [Exar](#) succeed through their ability to create highly differentiated designs and are justifiably selective when it comes to the partners with whom they entrust their design flows," said John Chilton, senior vice president of Marketing and Strategic Development at [Synopsys](#). "Synopsys welcomes the opportunity for a long-term partnership with Exar, and we look forward to helping them further distinguish their products through technical innovation and rapid market introduction."

 [Click here to return to Contents](#)

# CIMdata PLM Industry Summary

---

## ***Mentor Graphics Announces All-Calibre Physical Verification and DFM Flow for Advanced IC Designs at Fujitsu Microelectronics***

26 May 2009

[Mentor Graphics Corporation](#) announced that Fujitsu Microelectronics Limited has qualified and adopted the Calibre design-to-silicon platform for physical verification and design-for-manufacturing (DFM) of [advanced IC products](#). Fujitsu Microelectronics' Mentor-based flow includes the sign-off standard Calibre® verification platform with Calibre nmDRC, LVS, and xRC™ tools, and Mentor's comprehensive DFM solution for manufacturing variability, an integrated tool suite for critical area analysis, litho-friendly design, and 3D variability. The 3D variability solution provides improved planarity by enabling highly optimized fill based on either complex geometry-based rules, or full thickness (CMP) simulation.

“Fujitsu Microelectronics' leading-edge technologies require tight control over thickness variation. Density-based fill is a starting point and an improvement over traditional dummy fill, but at smaller features sizes our analysis shows that we need to consider more than just density,” said Noboru Yokota, General Manager of the Technology Development Division at Fujitsu Microelectronics Limited. “The Mentor solution is unique because it can handle complex equations combining all the factors required to compute an optimum fill that achieves our planarity goals with as few added shapes as possible.”

“Our long-term partnership with Fujitsu Microelectronics has resulted in a complete solution that meets Fujitsu Microelectronics' verification and DFM requirements for their latest IC designs regardless of which process offering is being targeted,” said Joseph Sawicki, Vice President and General Manager of the Design-to-Silicon division at Mentor Graphics. “Our customers are moving to all-Mentor flows because we offer both the best-in-class technology for each design task, as well as the ease of integration and use that can only be achieved with a single integrated platform and tools built from the ground up to work together seamlessly.”

 [Click here to return to Contents](#)

## ***Netronome Adopts Broad Scope of Cadence Technology***

27 May 2009

[Cadence Design Systems Inc.](#) announced that Netronome, a leading supplier of highly programmable semiconductor products used for intelligent flow processing in network and communications devices, has adopted and deployed a full range of Cadence® products to design, verify and implement its complex network flow processor.

“We use Cadence solutions almost exclusively because they enable us to design and produce our products with the highest levels of technical correctness and performance,” said Jim Finnegan, senior vice president of silicon engineering at Netronome. “Our product is very complex—a 65-nanometer geometry with 40 cores running at 1.4GHZ—and the Cadence technology was important to our success, especially the full-chip emulation capability of the Palladium System. Our next-generation silicon, already under design, will take advantage of the next, smaller geometry manufacturing processes, and the ability of the Cadence products to comprehend the effects of the smaller geometries will be even more important.”

Netronome's solutions include tightly integrated network flow processors and acceleration cards that scale to more than 20Gbps per second. They are used in carrier-grade and enterprise-class

# CIMdata PLM Industry Summary

---

communications products, as well as virtualized servers and appliances that require deep packet inspection, flow analysis and content processing, all at very high speeds for millions of simultaneous flows.

For the NFP-32xx, Netronome used a broad array of Cadence solutions and methodologies, including technology for custom IC design, digital design, logic, place and route, verification and services. The company said the suite of Cadence products deployed—from the Virtuoso®, Encounter® and Incisive® product groups—delivered the quality, testability, visibility and coverage it needed to tape out with confidence. Netronome pointed to the Incisive® Palladium® emulation system, in particular, as valuable for enabling engineers to thoroughly and efficiently test the quality of their design, including using real-world software to prove compatibility. In addition, Netronome cited as essential to its success the Open Verification Methodology (OVM) and broad verification IP portfolio (VIP) in conjunction with the expertise provided by Cadence Services.

“Netronome is engaged in cutting-edge chip design and recognized early on the benefits, in quality and efficiencies, it could receive by relying on Cadence for the full range of design, verification and implementation technology,” said Ziv Binyamini, corporate vice president of Front End Solutions at [Cadence](#). “We look forward to working with the Netronome team in the future as smaller geometries bring greater design challenges.”

 [Click here to return to Contents](#)

## ***NKK Switches Expands 3D CAD Library for Toggle Switches and Pushbuttons***

26 May 2009

NKK Switches announced a significant expansion of its online 3D CAD switch library and configurator for a full range of NKK's product lines. NKK's 3D models benefit design engineers and allow them to download and integrate complex models into their designs at no charge. In addition, design productivity is enhanced as engineers no longer need to redraw standard parts.

[NKK Switches](#) has been working with PARTsolutions, a leading provider of digital parts management technology and services, for the past year to create 3D CAD models for the majority of the company's switches, including the popular programmable OLED switches and displays. Nearly 90 percent of the company's pushbuttons, toggle switches, rocker switches, tactiles, slides, rotaries, keylocks, tilt, surface mount and SmartSwitch product lines are available as 3D models in the catalog. CAD files for remaining products will be made available upon request.

3D CAD models are available in a variety of popular CAD file formats including Catia, I-DEAS, Inventor, Pro/Engineer, SolidWorks, and Unigraphics, as well as universal file formats such as STEP, IGES, and SAT and others.

Representing millions of viewable configurations, the catalog allows current and prospective customers to graphically configure components with the sizes, features, and colors they need. Once configured, the online library creates high quality, native CAD data -- including the accurate NKK SWITCHES part number -- which is downloaded by the developer for their designs. New switches from NKK will be added to the library as they are introduced to market.

"The completion of this 3D library represents our constant evaluation of ways to provide more value and support to our customers," said Tim Carlson, Product Specialist at NKK Switches. "Our strategy is to provide highly useful design resources for our customers including personalized support from our

# CIMdata PLM Industry Summary

---

dedicated and experienced switch specialists."

The PARTsolutions' 3D CAD library may be accessed on the NKK website as well as various online market places including the Autodesk® Supplier Content Center, Machine Design Magazine CAD library, and others. NKK products will also be available within PARTsolutions 3D Part Catalog Management solutions, allowing NKK Switches to introduce their products to new prospects worldwide independent of the CAD technology they may be using.

## About PARTsolutions LLC

PARTsolutions LLC is a leading provider of PLM solutions for next generation 3D part catalog management and hosting, delivering solutions since 1992. For large manufacturers, the PARTsolutions product suite provides centralized 3D standard part catalogs making it easy for global design teams to find, reuse, and control standard and proprietary 3D parts. For component manufacturers, the PARTsolutions product suite provides web hosting of 3D part catalogs to increase lead generation, and to ensure that components get "designed in" to OEM products. The PARTsolutions CAD-Native advantage provides support of over 85 native CAD formats to meet the needs of your multi-CAD environment or supply chain. Information about PARTsolutions can be found at <http://www.partsolutions.com>.



[Click here to return to Contents](#)

## *Nucletron B.V. Goes Live with Pilgrim Software's Solution for Change Order Management*

28 May 2009

[Pilgrim Software, Inc.](#) announced that Nucletron B.V., an international knowledge-driven leader in Radiation Oncology, has gone live with Pilgrim's [SmartSolve](#)®, solution for automated Change Order Management. The solution, built on industry best practices, supports [Change Control](#) processes including the Engineering Change Order (ECO) process.

[Nucletron](#) had been seeking a closed-loop electronic solution to replace its manual, paper-based process for managing Change Control, and elected to initially automate its process for Engineering Change Orders using the Pilgrim system. Through integration with other automated core management systems in Pilgrim's SmartSolve® solutions suite, including Pilgrim's [SmartDoc](#)™ for document management, and [SmartCAPA](#)™ for Nonconformance and workflow management, Nucletron is able to eliminate islands of information to ensure that events such as changes are implemented quickly and consistently across the enterprise.

"The automation attributes of SmartSolve will help to reduce the volume of paperwork in relation to ECOs, and reduce the ECO turnaround time," said Leo Hovestadt, Nucletron's Director of International Regulatory Affairs and Quality Assurance.

SmartSolve's capabilities provide Nucletron's management with real-time visibility and enhanced reporting, tracking and trending capabilities to identify the occurrence of [nonconformances](#), incidents, discrepancies and other product and process quality concerns. These concerns can be identified, reviewed, promoted to becoming meaningful changes easily.

"The benefits of integrated communication, enhanced process visibility, and improved efficiency will strengthen our ECO process, and lend themselves to our other internal quality processes such as managing manufacturing nonconformances as well," Hovestadt said.

“SmartSolve allows users in any department to initiate review and investigation, to quickly resolve a proposed change triggered from the identification of an issue and thus prevent recurrence or pro-active process and product improvement changes,” said Prashanth Rajendran, Pilgrim Software’s Chief Operating Officer. “This proactive approach, whether engaged in the Engineering phase or Manufacturing phase, will help ensure Nucletron’s corporate well-being and industry and regulatory compliance.”

 [Click here to return to Contents](#)

## ***NVIDIA Deploys Magma Talus 1.1 Release Into Production***

27 May 2009

[Magma® Design Automation Inc.](#) announced that NVIDIA Corporation has deployed Magma's Talus® 1.1 IC implementation system into full production. Talus 1.1 offers significant improvements in routing, optimization and runtime as well as enhanced usability features. NVIDIA had been participating in the beta testing of the latest Talus release and, based on the positive results of the testing and improved flow performance, made the decision to start using Talus 1.1 for NVIDIA's production design projects.

"We have recently upgraded to Talus 1.1 in our production environment based on significant improvements in the core algorithms, flow convergence and the overall usability," said Patrick Sproule, manager of VLSI Design for NVIDIA. "In particular, the improvements in runtime, timing convergence and ECO routing have improved our throughput and quality of results."

Magma's unified data model is a key factor in the performance of the Talus chip implementation system. All the implementation and analysis engines in the Talus flow are built around, and have access to, the same data, and as a result flow convergence and turnaround times are shortened and optimization steps can be applied across the flow.

"We made a significant R&D investment in Talus 1.1 with the focus on improving overall performance and convergence while also improving the ease-of-use and efficiency of the system," said Premal Buch, general manager of Magma's Design Implementation Business Unit. "Our customers are implementing very complex chips and need the combination of a powerful, fast, high-quality chip design system that is also easy to drive. We made a specific effort in Talus 1.1 to develop simplified flows that reduce the number of commands required, but still deliver superior results in the finished design. We are very pleased with the fact that Talus 1.1 performed so well for NVIDIA that they have moved it onto their production chip design projects."

### **Talus: The Platform for Nanometer IC Design**

Talus is a completely unified RTL-to-GDSII system for design implementation, with advanced capabilities for nanometer design. To address shorter time-to-market windows, Talus is the first implementation solution to multi-process the entire IC design flow. Its front-end design system provides logic designers with a fast, high-capacity, physically aware synthesis capability. Its physical design system addresses variability and multimode/multicorner complexity with new optimization, place and route, and clock tree synthesis technology. To reduce leakage and dynamic power, Talus also provides a complete low-power design system. To improve manufacturability and reliability, Talus provides built-in design-for-manufacturing (DFM) features such as redundant via insertion, recommended end-of-line extension, and wire spreading & widening.

 [Click here to return to Contents](#)

## ***PTC Announces Engagement with Nokia***

26 May 2009

PTC announced its engagement with Nokia, the world's number one manufacturer of mobile devices by market share and a leader in the converging Internet and communications industries.

Nokia has engaged with PTC to develop a Windchill-based functionality extension on top of Nokia's existing PLM platform. At the same time, Nokia continues to work with its existing PLM partners.

 [Click here to return to Contents](#)

## ***PTC Pro/ENGINEER® Helps Penske Racing Team Claim Victory at Indianapolis 500 Memorial Day Race***

28 May 2009

PTC announced that Penske Racing, whose cars are designed and developed with the help of PTC's **Pro/ENGINEER** technology, has claimed victory at the IRL IndyCar Series' 93<sup>rd</sup> running of the Indianapolis 500® held on Sunday, May 24, 2009. Helio Castroneves, driving the No. 3 Team Penske Dallara/Honda alongside his teammates Will Power and Ryan Briscoe, captured his third Indy 500 title. Earlier in the month, Castroneves had also won the PEAK Performance Pole Position for the Indy 500.

The pressure to find a competitive edge in racing is intense, with the slightest design modification capable of shaving crucial seconds off a driver's lap time. PTC's Pro/ENGINEER features productivity tools that help Penske Racing stay ahead of the competitive curve. The integrated 3D CAD/CAM/CAE capabilities of Pro/ENGINEER allow for faster design processes with a complete suite of applications spanning concept to manufacturing.

PTC software is used by Penske Racing and Penske Technology Group in all aspects of race car design, engineering, testing, and manufacturing and directly contributed to Team Penske's victory at the 2009 Indianapolis 500. Pro/ENGINEER is utilized to design and create stereolithography (SLA) prototype parts that are then tested in Penske Technology Group's scale wind tunnel prior to manufacturing full scale parts for the race cars. PTC Pro/ENGINEER is the common design thread that runs throughout the Penske Racing organization in terms of design, modeling, testing, and manufacturing.

"We use PTC Pro/ENGINEER as the standard for the Team Penske race cars because it enables us to design, test, and deliver to the track, a competitive IndyCar racecar under the challenging constraints of the IndyCar series," said Tim Cindric, President, Penske Racing. "PTC provides Penske Racing and Penske Technology Group with powerful, integrated 3D design and development software that allows our engineers to develop everything from concept to manufacturing within one solution. We look forward to continuing our work with PTC solutions."

According to Team Penske (IndyCar Series team) Technical Director, Ron Ruzewski, "Pro/ENGINEER allows us to design, prototype and test in a virtual world before we ever produce a part. This gives us the confidence to produce parts quickly in our ever changing competitive environment. Pro/ENGINEER allows us to develop, design and quickly integrate with manufacturing components that are pivotal in our success on the track. The powerful simulation and virtual prototyping capabilities of Pro/ENGINEER allow us to literally stay at the front of our competitors."

Tim Cindric, continued, "We at Penske Racing thank PTC for their commitment to the team and for continuing to provide cutting-edge software and technology that helps keep us running at the front in the

# CIMdata PLM Industry Summary

---

IndyCar Series. It was a great win for Team Penske and Helio on Sunday. We treasure all of our wins at the Indianapolis 500, but this one was definitely special for everyone on the team."

"PTC congratulates Helio Castroneves' team on its Indianapolis 500 victory," said Michael Campbell, senior vice president product management, PTC. "Penske's use of PTC solutions for development and optimization of their Indy race car is just another example of how valuable the use of PTC technology can be to helping racing teams exact valuable performance improvements. We're pleased that Penske Racing was able to achieve this victory with a car designed and developed with Pro/ENGINEER."

 [Click here to return to Contents](#)

## ***Simulation Helps Develop Spray Gun with 50% Larger Pattern in Significantly Less Time***

13 May 2009

Graco engineers used [FloEFD](#) computational fluid dynamics (CFD) software from the Mechanical Analysis group of Mentor Graphics Corporation to optimize the design of a new plural component spray gun in 1/3 the time that would have been required to produce an acceptable but not optimized design using the trial and error method. "The use of software prototypes made it possible to explore a much wider design space than would have been possible with physical prototypes, said Rick Anderson, Senior Project Engineer at Graco. "It's important to note that I achieved these results despite the fact that I am a design engineer without any training in CFD."

Graco provides systems, products and technology for a wide range of fluid handling applications including spray finishing and paint circulation, lubrication, sealants and adhesives, processing and power application equipment for the contracting industry. Graco plural component spray guns are designed to apply products that need to be mixed just prior to spraying such as polyurethane foam insulation. The performance of these guns depends upon thoroughly mixing the two polyurethane foam components – the resin and the catalyst. It's also important to control the motion of the spray as it leaves the gun in order to provide the desired pattern shape on the surface to which it is applied. In the past, the company used a long and expensive trial and error process to design these guns.

More recently, Graco has begun using computational fluid dynamics (CFD) to simulate the flow of resin and catalyst inside the gun. The CFD software originally used by the company was expensive, difficult to use and took a considerable amount of time to analyze each design. Then the only engineer who knew the software left the company. Graco evaluated alternative CFD software and discovered one product – FloEFD from Mentor Graphics Corporation – that is tightly integrated into the computer-aided design (CAD) software used by the company's design engineers. This software substantially reduces the amount of skill and time required to simulate fluid flow through its use of native 3D CAD data, automatic gridding of the flow space, and managing of flow parameters as object-based features.

Graco engineers have used the new software to improve the performance of its spray guns to industry-leading levels. For example, Graco used CFD to develop one model of its Graco Fusion plural-component spray gun that provides a 50% larger spray pattern than traditional guns, thus substantially improving the productivity of the contractors that apply the foam insulation. Anderson embarked upon an interactive process that involved parametrically changing key design variables such as the length, diameter and amount of offset of the impingement ports and the diameter of the exit hole.

For each design iteration, he checked how thoroughly the two components mixed in the chamber and the size and shape of the resulting output pattern. "During this process, I was able to achieve the required level of mixing and round shape while substantially increasing the size of the spray pattern," Anderson

said. "As a result, we are confident that this design is the best that can be achieved within the constraints of the project." Based on this and other successes, Graco has expanded its use of FloEFD software to the point that the company now has licenses in use at three different divisions.

 [Click here to return to Contents](#)

## ***STX Offshore & Shipbuilding Selects MSC.Software's Engineering Analysis Solutions to Achieve Increased Simulation Accuracy***

26 May 2009

[MSC.Software](#) announced that STX Offshore & Shipbuilding, one of the world's leading Ship building and Offshore Structures builders has selected MSC.Software's suite of engineering simulation software including Marc and Patran, to increase its product quality through greater simulation accuracy .

STX Offshore & Shipbuilding will utilize MSC.Software's proven set of engineering solutions to conduct global structural and vibration analyses. These include determining structural stability under various sea conditions. With improved simulation performed during the early phase of design, STX Offshore & Shipbuilding is able to prevent excessive vibration on vessels and produce more reliable and safer products.

"With MSC.Software's simulation tools we able to perform and validate structural optimization and safety. The ability to reduce design errors via simulation accuracy allows us to produce better quality products, saves us money in redesign as flaws are discovered virtually rather than in physical prototypes, and will further enhance our reputation as the leader in the global market," said Dr. JH Heo, Senior Vice President and Head of R&D institute, STX Offshore & Shipbuilding.

### **About STX Offshore & Shipbuilding**

STX Offshore & Shipbuilding is a global leader in the shipbuilding and offshore industry. In 2008, STX Offshore & Shipbuilding delivered 56 vessels to ship owners and received 84 new vessel orders. STX Offshore & Shipbuilding generated revenue of KRW 3,005 billion and employs 9,100 people. The Head office is located at Jinhae, Korea and there are two R&D centers located at Changwon and Seoul. STX Offshore & Shipbuilding has built leading technology and experience by producing world-class container ships, product carriers and high value-added ships such as LNG Carriers, Cape-size Bulk Carriers, VLCCs, VLOCs, PCTCs, Drill-Ships and 13,000 TEU very large-sized container ships. Its main business now includes offshore platforms including but not limited to F(P)SO, FPU, Drilling Rigs, Supply Vessels, Pipe Layers, LNG Floaters, and Fixed Platforms.

 [Click here to return to Contents](#)

## ***TriQuint Semiconductor Selects Synopsys' TCAD Sentaurus for Compound Semiconductor Technology Development***

27 May 2009

[Synopsys, Inc.](#) announced that TriQuint Semiconductor has adopted Synopsys' TCAD Sentaurus device simulation software to support its research and development of high-frequency and high-power semiconductor devices targeting mobile handsets, 3G and 4G base stations, Wi-Fi, WiMAX, and defense and aerospace applications. TCAD Sentaurus' accurate modeling and other advanced capabilities enable TriQuint to speed up the development of heterojunction field-effect transistors

# CIMdata PLM Industry Summary

---

(HFETs), heterojunction bipolar transistors (HBTs), and other devices fabricated with compound semiconductors. TCAD Sentaurus accomplishes this by supporting wafer experiments with detailed simulations of the electrical and thermal behavior of these devices.

Compound semiconductor devices are critical components in high-frequency applications where silicon-based devices cannot meet frequency, power generation or efficiency requirements. As a leader in radio frequency (RF) components and solutions, TriQuint develops a wide range of III-V and III-Nitride devices tailored to specific RF applications.

"Many of our products at TriQuint combine high-frequency and high-efficiency requirements which can only be met with compound semiconductor transistor technology. TCAD Sentaurus helps us tailor and optimize the design of these transistors to specific applications, and to deliver truly innovative solutions to our customers," said Otto Berger, director Advanced Technology at TriQuint.

The TCAD Sentaurus product family comprises 2D and 3D process and device simulation tools used for exploring and optimizing silicon and compound semiconductor technologies.

"Compound semiconductors play a vital role in today's and tomorrow's wireless world. We've seen a rising interest in the application of our simulation tools to the design of these devices as companies continue to push against the envelope of high-frequency and high-efficiency to meet stringent wireless requirements," said Howard Ko, senior vice president and general manager of the Silicon Engineering Group at Synopsys. "TriQuint is a leader in the compound semiconductor segment, and its adoption of TCAD Sentaurus is a testament to the value Synopsys TCAD simulation brings to the market."

## About Synopsys TCAD

Technology CAD (TCAD) refers to the use of computer simulation to model semiconductor processing and device operation. TCAD provides insight into the fundamental physical phenomena that ultimately impact performance and yield.

 [Click here to return to Contents](#)

## *Ulysse Nardin Gains Time for Design With Autodesk Inventor Software*

27 May 2009

It used to take [Ulysse Nardin](#), one of the world's premier makers of fine mechanical watches, four years to develop the complex insides of a new watch that can contain as many as 400 moving parts. The process has been cut in half using [Autodesk Inventor](#) software.

[Autodesk](#) has named Ulysse Nardin as the [Inventor of the Month](#) for May 2009 for bringing its watches to market in 50 percent less time with fewer physical prototypes.

Few products pack so much mechanical complexity into such a small area as fine watches. Working with a 3D model in Inventor, Ulysse Nardin designers can visualize how the gears and springs fit with other components as they design. This capability makes it much easier to identify and fix interferences early in the design process. Designers can also optimize the position of mechanical parts that integrate with external portions of the watch, such as the case or the watchband, which are initially drawn in 2D by a conceptual designer.

The Inventor of the Month program recognizes innovative design and engineering advancements made by the extensive community using Inventor software - the foundation of the Autodesk solution for [Digital Prototyping](#). A digital prototype is a 3D digital model of the entire end product, used to virtually

explore and validate a product before it is built to reduce the necessity of constructing physical prototypes.

"Having a clear 3D view is a significant advantage," said Loic Pellaton, technical manager at Ulysse Nardin. "Autodesk Inventor helps us to place parts and explore different options very quickly. It has significantly accelerated the most complicated aspects of watch design."

## **Digital Prototyping Speeds New Product Development**

By using Inventor software in collaboration with Autodesk reseller and training partner HURNI ENGINEERING SARL to explore and hone digital prototypes, Ulysse Nardin has reduced the need to produce multiple rounds of physical prototypes. Because watch movements are largely refined during the design phase, the company produces just one physical prototype instead of three. This streamlining helps Ulysse Nardin realize its vision twice as quickly when developing and introducing new product lines.

To help refine its watch cases, Ulysse Nardin designers also use [Autodesk Showcase](#) software to create accurate, photorealistic images of digital prototypes created in Inventor, enabling more efficient decision making. For example, design teams can visually explore a wide range of decorative and watchband options without having to produce a single physical prototype.

"From the beautiful case to the movement Ulysse Nardin watches are renowned for, Digital Prototyping helps us to create the kind of watches people dream of owning," said Pierre Gygax, executive vice president of production at Ulysse Nardin.

For more information about Autodesk Inventor of the Month, contact [IOM@autodesk.com](mailto:IOM@autodesk.com).

## **About HURNI ENGINEERING SARL**

Located in the heart of the Watch Valley, HURNI ENGINEERING SARL is a leading provider of design and engineering solutions to the machine and the watch industry. Mainly active in the French part of Switzerland, HURNI ENGINEERING offers knowledge and experience to clients through technical support, training and consulting services. In 2009 HURNI ENGINEERING was awarded "Best Digital Prototyping Partner" by Autodesk in Central Europe. For more information please visit <http://www.hurni.ch>.

 [Click here to return to Contents](#)

## ***Volvo Group Selects PTC as Strategic Partner for Future PLM Solutions***

27 May 2009

PTC announced that Volvo Group, one of the world's leading manufacturers of trucks, buses and construction equipment, drive systems for marine and industrial applications, aerospace components and services, has, in a directional decision, selected PTC as a strategic partner for the Volvo Group PLM solution.

"Our Windchill solution is a key strategic enabler for product development and manufacturing processes. By creating an environment that fosters internal, external and group-wide collaboration, PTC can help companies to drive competitive advantage," said C. Richard Harrison, chairman and CEO, PTC.

"We know that the selection of a single strategic partner for such an important PLM solution is not an

# CIMdata PLM Industry Summary

---

easy decision. Volvo Group has performed a comprehensive and extensive selection process and benchmark of leading PLM vendors and solutions. We are very satisfied that PTC in the end came up with the most convincing solution that best serves Volvo Group's business needs. This selection underscores PTC's strength in the product development industry and we look forward to continuing a long-term strategic partnership with the Volvo Group," said James Heppelmann, president and chief operating officer, [PTC](#).

 [Click here to return to Contents](#)

## ***WorkNC Transforms Coin and Medal-Making Productivity at the Bank of Algeria***

25 May 2009

[The Bank of Algeria Mint](#) has embarked on an extensive investment program in both equipment and methods to help it respond to the demands of modern banking and encourage the growth of the country's economy. The tooling department needed a CAD/CAM system to help it improve its range of capabilities and shorten lead times. The Bank of Algeria purchased WorkNC from Sescoi in 2006.

The assistant director at the Mint explained: "We have a wide range of CNC milling and turning machines and we needed to modernize in order to achieve just in time manufacture, respond to urgent requirements and machine increasingly complex and intricate shapes." Before the introduction of WorkNC, programming was carried out on the machine tool control, which required high levels of skill from the operator, reduced the available capacity and hence productivity of each machine, and limited the complexity of the parts being produced. WorkNC-CAD is used to design existing or new components and parts using its recently incorporated parametric solid modeling. Furthermore, the WorkNC-CAD turning module makes CNC lathe machining easy and reliable. For machining and engraving, the Bank uses WorkNC to create programs from 2-axis right through to full 5-axis.

The assistant director said: "We program all our CNC machines with WorkNC, for the milling of simple or complex parts. We have optimized our production processes and achieved productivity gains of over 60%."

For its 5-axis programming, the Bank of Algeria uses WorkNC's Auto 5. Unique to Sescoi, the software automatically translates 3-axis toolpaths into 5-axis, making 5-axis machining as simple to program as 3-axis, with totally reliable and collision-free toolpaths.

Using the technology gives the Bank the advantages of using short rigid cutters and the ability to reach more of the part in one setting, resulting in improved surface finish and shorter machining times. Sescoi's 5-axis routines include sophisticated collision avoidance algorithms, which consider the limits of the individual machine tool, introducing unwind and flip movements so that machining can continue safely and uninterrupted.

The assistant director said: "The ease of use of Auto5 has enabled us to adopt 5-axis machining methods very quickly. We find that the toolpaths it creates for our 5-axis machines are completely reliable and we anticipate purchasing more licenses in a few weeks."

The Bank understands the benefits of training its production engineers. It invests in a continuous training program with Sescoi, ensuring that its engineers can fully exploit WorkNC's capabilities, benefit from the support hotline and receive software upgrades.

The assistant director concluded "Sescoi has provided the technology and support which has made it possible for us to quickly transform our working methods. We can now successfully manufacture

complex parts that would have been difficult or impossible for us to make just a short while ago. All our machines can be programmed with WorkNC from turning right through to 5-axis machining. Productivity improvements have been significant and swift, enabling us to become local leaders in machining methodology".

 [Click here to return to Contents](#)

## Product News

### ***Aras Announces Latest Release of Advanced PLM Software Solution Suite; New Feature Packed Open Release of Enterprise PLM Software Solution is Available***

28 May 2009

Aras® announced download availability of the latest release of the Aras Innovator® suite of PLM software solutions. The release has already been downloaded over 2,000 times. Enterprise production-ready PLM solution suite download with complete access for unlimited users is available at:

<http://aras.com/plm/001004>

#### **Hundreds of New Features & Enhancements**

The release incorporates dozens of corporate community contributions constituting hundreds of innovative features and enhancements including:

- ECO / MCO online change workflows for fast & easy engineering and supply chain changes
- New Redline revision compare for BOMs, suppliers, documents, and more for easy, visual identification of changes
- Lockheed Martin security protocols embedded
- Modular process planner for reuse of groups of manufacturing operations or workcells in Process Flow Definition, FMEAs, and inspection and test Control Plans
- Updated Web browser screens with new modern Microsoft 'look & feel'
- Microsoft Office SharePoint Server 2007 [MOSS] standard integration
- Graphical Web services 'builder' in Solution Studio for even easier integrations
- The new functionality is in addition to the other previously released Version 9 capabilities:
- Powerful search center including ad hoc queries, saved searches, Microsoft Live Search, and the GlobalSpec online parts database of over 180 million parts across 2.3 million part families
- Single system, multi-language internationalization for global collaboration
- Language packs for Japanese, Traditional (Mandarin) Chinese, Simplified Chinese, Russian, German, Hebrew, and many more as well as English
- Enablement on Microsoft Windows Server 2008 and Microsoft SQL Server 2008

# CIMdata PLM Industry Summary

---

With the new Aras release companies have more usable functionality 'out-of-the-box' from the initial installation than with PTC's Windchill, Oracle's Agile PLM, or any other PLM system on the market. You can download and install in under an hour.

“This open release of the Aras PLM software solution suite includes significant contributions that introduce an array of innovative new features and capabilities with usability that is superior to any of the other major PLM systems,” said Peter Schroer, President of Aras. “We would like to thank the numerous corporate community members that contributed to make this release the most feature packed high quality version to date and we are excited about the continually accelerating pace of advancement.”

Companies with an Aras Unlimited subscription package have access to the online support portal for the latest Aras PLM software solution suite release, as well as, the Service Packs, Upgrade Utility, Data Load Tool, additional documentation, and other important materials. Live Aras support hotline and online support are available to subscribers for assistance as well.

View a recorded solution demonstration at: <http://aras.com/plm/001037>

 [Click here to return to Contents](#)

## ***Bentley's ProjectWise Dynamic Plot Brings Paper Into Digital Age to Help Mitigate Project Risk***

27 May 2009

Bentley Systems, Incorporated announced the immediate release of ProjectWise Dynamic Plot V8i, a software service that brings paper into the digital age. It does this by creating an intelligent link between paper plots and digital models, shrinking the time required to sync written comments and digital data from days to seconds, and sustaining and extending the value of project information plotted to paper. With paper plots and digital models always in sync, markup and review workflows become error-free, mitigating project risk.

Using the advanced publishing capabilities of ProjectWise InterPlot, the new software adds a unique pattern of dots to a drawing as it is plotted. Because this pattern carries with it embedded provenance, it establishes an intelligent link between the paper drawing and the model. The markups are applied to the plot as usual, but with a digital pen, and simultaneously they are captured and stored in memory. Later, the markups are transferred to the ProjectWise managed environment for automatic synchronization and association with the model, thereby ensuring a single source of truth for collaborative teams.

Harry Vitelli, Bentley vice president, MicroStation and ProjectWise, said, “By making paper dynamic (adding provenance and enabling change-management), ProjectWise Dynamic Plot helps users create new value from their preferred review medium. Because paper is portable, recyclable, and scalable, it is perfectly suited for everyone who reviews designs, marks up as-built drawings, inspects facilities, or simply makes notes in the field. Today, those same people can use ProjectWise Dynamic Plot to faithfully and flawlessly capture and instantly sync hand-marked revisions on small to large plots.

“Better still, they can do so knowing that the value they are adding to the project through their reviews will always be connected with the original source data managed by the ProjectWise collaboration system. Since the markup data need not be interpreted and entered manually into ProjectWise, time and money are saved, and hit-or-miss paper-to-computer transfers of critical reviewer improvements are eliminated.”

Vitelli continued, “Given the current state of the global economy and today's challenging resource constraints, now is the perfect time for organizations to invest in information technology like

# CIMdata PLM Industry Summary

---

ProjectWise Dynamic Plot that will yield both immediate and long-term returns on the innovation it affords.”

The ProjectWise Dynamic Plot workflow provides the additional advantage of automatic digital backup for all reviewer markups, which can easily be lost or destroyed in the field in paper form or overlooked during manual transfers to a computer. At the same time, it establishes a markup audit trail for management accountability. As a result, owners are assured that all as-built markups are accurately recorded – increasing quality and improving safety – and never lost, further reducing risk throughout the project lifecycle.

Commenting on the new collaboration software, Kevin van Haaren, ProjectWise administrator, [HNTB Corporation](#), said, “We all thought that the digital age would be the end of paper, but, in reality, the more work we do on computers, the more paper we create! Because these current paper-based drawing review and markup workflows are slow, our digital data and paper markups are usually out of sync.

“ProjectWise Dynamic Plot adds intelligence to the paper that will help us avoid errors and save time. We also believe this new collaboration tool will be extremely easy to implement by using our existing investments in printers, plotters, and ProjectWise, enhancing our workflows with minimal user training.”

Here’s how the ProjectWise Dynamic Plot service works. When plotting a drawing, a unique pattern of dots, along with the design data, is applied to the paper. At the same time, a record is made indicating which design file was used to create the plot. As a result, when markups are retrieved they can be registered to the appropriate design data.

Using a digital pen and employing technology by Anoto (the leader in technology enabling fast and reliable transmission of handwritten text into a digital format), markups can be applied to the patterned plot. Even though the pattern is almost imperceptible, the digital pen can detect it when writing on the plot and track the pen marks on the paper.

After the markups have been applied to one or more drawings, the digital pen is docked to the computer through a USB port. In real time, the marks are then retrieved as vector data, converted to the design format, and stored in ProjectWise as an associated redline file to the original design file. ProjectWise then intrinsically provides, across the entire project team, the provenance and change-management required to successfully implement effective collaborative reviews.

With ProjectWise Dynamic Plot, accurate paper copies of the revised digital drawings can be automatically created using standard color printers or plotters. The highly portable and durable digital pen works for up to seven days on a single charge and can store up to 50 pages of content.

For more information about ProjectWise Dynamic Plot, visit <http://www.bentley.com/ProjectWiseDynamicPlot>.

 [Click here to return to Contents](#)

## ***Cirquent Offers Application-Level Solution for PLM Monitoring***

25 May 2009

The Munich-based consulting firm Cirquent GmbH is now offering an intelligent operation and resource management solution that is interoperable with different PLM application environments. IT solutions for product lifecycle management (PLM) include a variety of interdependencies that IT infrastructure monitoring alone is unable to record and identify effectively. The Cirquent PLM Connector provides a

# CIMdata PLM Industry Summary

---

flexible template including functions for performing automatic application tests, SLA evaluations of individual routines, integrated reporting and trend monitoring.

A comprehensive product lifecycle management (PLM) solution requires a stable and high-performance IT system that extends to multiple sites. Agreed service level agreements, however, typically only refer to the technical IT infrastructure and do not apply to the services of deployed applications such as the PLM systems, CAD workstations or conversion processes. The result: Even though availability and performance monitoring shows that all systems are running properly, the individual business processes frequently function in an unsatisfactory manner and users complain of poor application performance. For an extensive, application-level PLM monitoring solution, the IT consulting firm Cirquent GmbH is now offering a comprehensive template for system-specific integration.

Companies can easily benefit from the flexible and expandable Cirquent solution, which offers low installation costs, sustained cost reductions and increased efficiency when running PLM applications. Application failures can be avoided through proactive monitoring or corrected in real-time by means of drill-down analysis. Performance figures for trend analyses, reportings or SLA monitoring allow to continuously check and optimise the PLM system solution.

## **Flexible Cirquent template for each individual PLM installation**

The Cirquent template offers interfaces to all relevant functions of the Siemens PLM software Teamcenter and the ENOVIA PLM platform from Dassault Systèmes. The Cirquent template is platform independent and can be customized to meet the requirements of any PLM system installation. Maximum investment security is ensured through the use of release-stable APIs (Application Programming Interfaces). The implementation services offered by Cirquent include the analysis of existing system components and monitoring processes, customer-specific configuration of the Cirquent solution template for PLM application monitoring and deployment within the companies' system environment

The Cirquent PLM Connector implements performance and availability monitoring for PLM application functions (login, fileserver, licences, database queries, workflow, etc.). The Cirquent PLM Connector was built using proven open source technologies such as the Nagios monitoring solution and the PNP4Nagios add-on. Customers also have the option of integrating not just the Cirquent Dashboard for displaying figures in a condensed manner based on the NagVis Nagios add-on but also technology for an integrated, proactive issue management via the Mantis bug tracking system.

## **About Cirquent GmbH**

Cirquent offers consulting throughout the entire value added chain for banks, insurance companies, telecommunications, and manufacturing companies. The services portfolio of the consulting company includes: industry-oriented strategy and process consulting; conceptual design; integration and implementation of individual solutions aimed to support business processes as well as the operation and maintenance of IT systems. Cirquent offers competences in industry-specific processes, methods and technologies – in the areas of customer management, contact centres, finance transformation and application management. Cirquent's goal is to deliver solutions tailored to the individual requirements of customers, to achieve more efficient business processes, increased business success and reduced costs. The high quality of its consultancy and more than 35 years' experience has made Cirquent a valued partner of such leading companies as BMW Group, Commerzbank, Münchener Rück and T-Mobile Deutschland.

[Cirquent](#), formerly the Softlab, has established itself as one of today's leading German consultancy companies, currently ranking within the Top Ten of Germany's leading IT consulting and systems

integration companies (source: Lünendonk List 2009). Headquartered in Munich, Cirquent operates out of five locations in Germany, and also has offices in the UK, Austria and Switzerland. In 2008, with 1,750 employees, the company generated sales of €260 million. Effective from the end of September 2008, the IT group NTT Data, listed on the Tokyo stock exchange and a Nippon Telegraph and Telephone Corporation (NTT) affiliate, acquired a 72.9 percent share of Cirquent. The BMW Group continues to hold a 25.1 share of Cirquent GmbH.

 [Click here to return to Contents](#)

## **CNC Software Unveils Mastercam X4**

May 2009

CNC Software announced the release of Mastercam X4. Mastercam X4 offers expanded machining flexibility and an increased emphasis on speed and automation with a suite of new toolpaths, multi-threading ability, and much more.

**Dynamic Machining** – This new machining technique creates an active toolpath that delivers more consistent cutting conditions and allows use of the entire tool flute length, saving both time and money. Dynamic machining offers flexible retract options to keep the tool down in smaller parts, and rapid retract on larger parts.

**Multi-Threading** – Mastercam Mill delivers multi-threading support, dividing complex tasks in a multi-core computer, and delivering faster processing and other benefits. You have the option to turn this on or off. When used in a single-core environment, multi-threading allows users to multi-task, prioritize running and pending tasks, and monitor the progress of toolpath calculation, which increases productivity.

**Mastercam® for SolidWorks®** – Mastercam for SolidWorks is fully integrated CAM that runs seamlessly in SolidWorks. SolidWorks users can now program their parts directly within SolidWorks using Mastercam's toolpaths and machining strategies.

Mastercam for SolidWorks includes a suite of cutting strategies, including Feature Based Machining (FBM) and 3D High Speed Machining (HSM) toolpaths. HSM promotes longer tool life, faster machining time, and precision cutting by creating smooth cuts that eliminate dangerous sharp moves. Mastercam for SolidWorks also delivers a powerful set of automated cleanup toolpaths, letting you get parts off the machine faster and with little or no handwork.

Other X4 features include:

- Powerful 3D toolpath refiner for dramatically better finish
- Feature Based Machining Drill enhancements
- Feature Based Machining Mill enhancements
- Tree-style dialog boxes for 2D toolpaths
- Circle 5-axis toolpath
- Agie Support

For more information about Mastercam X4, please visit <http://www.mastercam.com>.

 [Click here to return to Contents](#)

# CIMdata PLM Industry Summary

---

## *Delcam Expands Five-Axis Machining Capabilities*

26 May 2009

Delcam has increased the range of five-axis machining equipment in its Tooling Services Division with the addition of a DMG DMU 160P duoBLOCK milling machine, with a Siemens 840d powerline control.

This is the latest expansion of the Delcam's in-house machining facility – no other global CAD/CAM company operates an equivalent manufacturing operation to prove out its new programs on real jobs with real deadlines. As well as allowing thorough validation of all software before its release, this facility provides an ideal opportunity for companies to test new processes or to produce short runs of prototype parts without any disruption to their day-to-day operations.

The new machine will further extend the range of projects that can be undertaken on the Birmingham site. It will complement the existing equipment which includes five-axis and high-speed machine tools up to 12 metres in length from Mazak, Huron, Hardinge and Mecof, plus a three-metre WFL mill-turn machine. All of the equipment is fitted with Renishaw probing systems to ensure accurate set-up and to allow on-machine verification of the components being produced.

The purchase of the extra machine has been prompted by the increasing success of Delcam's Professional Services Group in winning process development work, in particular for the aerospace industry. The Group works closely with its clients to enhance their existing design and manufacturing processes, usually by using a combination of Delcam's software to increase efficiency, improve quality and reduce delivery times.

Many of the companies using the Group's services find that their engineering resources are fully committed to maintaining their existing operations so they have little capacity to test the new processes being developed. These companies prefer to undertake process evaluation and prototype manufacture on the equipment at Delcam rather than interrupting their day-to-day production.

"The Tooling Services Division has also duplicated the diversification into other industries that has been seen in Delcam's software business in recent years," commented Delcam UK General Manager Steve Creron. "The aerospace sector now provides the biggest source of work, rather than the toolmaking industry. The new DMG machine will offer us even more aerospace opportunities."

"The manufacturing expertise gained within the Division forms an important part of the comprehensive support given by Delcam to all its customers," added Mr. Creron. "As well as helping our development teams, the experience we gain is passed on to our support staff. They can use this knowledge to give our software users advice on all areas of their work, including aspects like the best choice of machining strategy and cutter selection, as well as the operation of the software."

Being able to test such developments on-site obviously gives Delcam a major advantage in proving out its software. "Many CAM programs generate data that is mathematically correct but that is often impossible to machine in practice," explained Mr. Creron. "With the facilities in the Tooling Services Division, we can confirm that the results from our CAM systems work as well on the shop floor as they do on the computer."

"When potential software customers first hear about Delcam, they often ask why we operate the toolroom," concluded Mr. Creron. "Once they have seen our facilities and we have explained the benefits, both in the reliability of the software and in the quality of our support, they find it difficult to understand how other CAM developers expect to develop and sell software without a similar resource."

 [Click here to return to Contents](#)

## ***Endeca Announces the Endeca Manufacturing Suite to Improve Quality and Cut Costs Across the Value Chain***

28 May 2009

[Endeca Technologies, Inc.](#) announced the availability of the Endeca Manufacturing Suite, providing manufacturers with visibility that reduces risk and cost, and increases product quality by enhancing decision-making across the supply chain. Endeca also announced today the availability of Design for Supply 2.0, one of the search applications in the Manufacturing Suite. [Design for Supply 2.0](#) helps global engineering and sourcing departments to better collaborate when choosing optimal parts for a new design to improve upstream part selection decisions to cut downstream costs. Endeca's Manufacturing Suite also includes two additional search applications - [Spend Analysis](#) and [Warranty Analysis](#) - built on a single platform.

Endeca manufacturing customers, including Boeing, [Ford Motor Company](#), [Harris Corporation](#), John Deere, [Raytheon](#), and Weatherford, rely on Endeca for information visibility across the value chain. Endeca manufacturing customers have saved tens to hundreds of millions of dollars by enabling global engineering, sourcing, quality and warranty departments to better collaborate across the value chain.

The Endeca Manufacturing Suite provides visibility across previously siloed systems for key decision points in the value chain, such as selecting the best parts for a new product design, selecting the lowest risk supplier, and identifying the true source of product failures. Each search application in the Suite helps engineering, sourcing, quality, and warranty departments to interact with large volumes of diverse and changing information, improving millions of daily decisions. The suite makes the entire value chain more flexible and adaptable, raising quality while cutting costs.

### **The Endeca Manufacturing Suite includes:**

**Endeca Design for Supply 2.0** helps global engineering and sourcing departments to better collaborate when choosing optimal parts for a new design. Design for Supply 2.0 provides unrestricted attribute analysis across data silos, encouraging discovery of parts that improve the quality of new designs and compliance with sourcing requirements. Unlike traditional search tools embedded in PLM, SCM, and other enterprise process applications, Design for Supply allows point-and-click exploration of fully integrated data from across the supply chain on a large scale, updating dynamically as preferences and needs change. Design for Supply 2.0 provides better visibility across previously isolated data, allowing engineers to reuse existing parts more frequently, introduce new parts less often, and align part selection with environmental and internal sourcing rules, moving products through the review process faster and decreasing the risk of expensive remediation later.

**Endeca Spend Analysis** provides unrestricted attribute analysis across data silos, encouraging the discovery of variations in part cost and performance across a product's lifecycle. Endeca Spend Analysis enables intelligent sourcing to assess supplier risk, and to identify specific opportunities for reducing costs while maintaining quality compliance.

**Endeca Warranty Analysis** helps the quality department identify source part failures before they adversely impact cost, time-to-market, and customer satisfaction standards. For discrete manufacturing firms that need to trace reliability problems back to their source, Endeca Warranty Analysis provides unrestricted attribute analysis across data silos, encouraging discovery of the true source of failure – whether in parts, suppliers, or processes.

# CIMdata PLM Industry Summary

---

The Endeca Manufacturing Suite is built on the McKinley release of the Endeca Information Access Platform, [announced in March](#). The new platform boasts a redesigned engine that takes advantage of multi-core processors from chipmakers such as Intel to deliver faster performance on greater volumes of data on fewer servers. For developers, advances announced in the McKinley release of the Endeca Information Access Platform and its complementary tools allow the integration and exploitation of larger volumes of diverse and changing information.

As part of its commitment to provide relevant solutions to the manufacturing community, Endeca is working with a growing ecosystem of business partners to deliver and maintain applications that solve specific business problems, and to do so at dramatically lower total cost of ownership, quicker time-to-value, and lower risk than other approaches.

The Endeca Manufacturing Suite is available today. To learn about the latest product capabilities, visit <http://www.endeca.com/manufacturing>.

 [Click here to return to Contents](#)

## ***Lattice Technology Releases XVL Studio Version 8.1***

28 May 2009

Lattice Technology® announced the release of XVL Studio 8.1, an upgrade to its core 3D Digital Manufacturing application.

XVL Studio delivers the critical tools needed by manufacturers whose strategy is to build lean manufacturing through use of 3D data. Customers have experienced significant improvements to productivity and efficiency in their design-to-manufacture processes once they start using XVL Studio. This application enables rapid, automated design review, digital mockup (DMU), motion simulation, manufacturing process instruction creation, process design, 3D parts list creation and illustrations direct from 3D data. XVL Studio can be used as a stand-alone application or can work within integrated environments such as ERP, MES, PLM and PDM systems.

XVL Studio delivers the authoring tools necessary to handle massive 3D assembly data which has been compressed into the XVL format. XVL delivers the industry's best 3D compression rates, with no loss of accuracy, which makes it easy for 3D data to be used downstream in many specific disciplines.

XVL Studio 8.1 will be released to Lattice Technology maintenance customers as an upgrade on June 16 2009.

This latest version delivers a series of updates and upgrades to its functions which improve the usability and the productivity experienced with the application.

Key Features include:

**Geometry Difference Detection** – XVL Studio can detect geometry differences between two parts or assemblies, delivering all the results in an easy-to-understand 3D color map and a text list. This allows engineers to understand even the smallest design changes made to data and track how that may change their own plans or processes in downstream manufacturing.

**Export of Assembly Animations to AVI format** – making assembly/disassembly animations and process simulations in XVL Studio is fast and straightforward. Now those animations can be saved out to AVI for more widespread use in a standard format.

# CIMdata PLM Industry Summary

---

**Authoring Process Steps in Process Design and Documentation** – engineers using XVL Studio can now interactively author and list process steps directly into their 3D data, adding resources such as tools required in each step. The user can drag-and-drop from the 3D view directly into the process tree, calculate man-hours required for the steps, and can interactively check each process step-by-step. These processes can be then shared in downstream manufacturing as a part of the 3D XVL model and the process steps can be imported from and to external systems such as MES and ERP systems for reference purposes.

**Path Authoring in Process Design and Documentation** – when checking if each process created is correct by using process animations in XVL Studio, assembly paths for each part or sub assembly can be easily edited when clearance issues in the assembly process are detected. This enables far more realistic simulation of an assembly of a product for planning and training of shop floor staff. This tool is used in conjunction with interactive and dynamic interference and measurement tools during process checks.

**Support for XVL v10** – Lattice Technology’s most compressed, most accurate 3D compression format is now supported by XVL Studio, allowing even larger 3D assemblies to be easily viewed, authored and shared across an enterprise.

**Export of 2D Illustrations as 2D vectors and CGM formats** – curved lines created in XVL Studio’s illustration tools can now be created as 2D vectors and in CGM formats, meaning that the curves are exceptionally smooth and can now be edited easily in graphics applications such as Adobe Illustrator.

**Measurement of parts in Animations for Process Design** – while a 3D assembly is in the animation mode, the user can check dimensions between parts. This helps an engineer to understand the available clearances that exist while an assembly is being simulated. If clearances are incorrect, the Product Design team can be notified using the 3D data.

**Advanced Import Options for BOM data** – including the choice to import BOM information from various sources, specifying the import method for duplicate parts, and more.

Other updates include:

- Moving/copying multiple keyframes in an animation
- Dual display of the structure panel for easier editing of process instructions and animations
- Improved control of the profile manipulation tool
- The addition of continuous dimensions along a plane
- The ability to measure a continuous wireframe around a part

XVL Studio is available in three different versions, known as Basic, Standard and Pro. XVL Studio Basic delivers basic 3D authoring tools including saving dimensions, generating cross-sections, annotations, colors etc. XVL Studio Standard can define animations and processes, and edit parts attributes, thereby allowing manufacturing information to be visualized and conveyed. XVL Studio Pro can also check interference and clearance issues. XVL Studio also comes with optional upgrades including Illustration, Geometry Check, Point Cloud Evaluation and more.

The XVL v10 format delivers up to 0.5% compression of 3D CAD data with high accuracy which allows previously massive assemblies to be easily used, shared, analyzed, simulated and viewed across all areas of manufacturing. XVL addresses weaknesses currently experienced by companies using 3D design and wishing to exploit it across a lean manufacturing enterprise.

# CIMdata PLM Industry Summary

---

To find out more about the new features and to view a demo of XVL Studio 8.1, please visit [http://www.lattice3d.com/products/products\\_studio\\_81\\_update.html](http://www.lattice3d.com/products/products_studio_81_update.html)

Find out more about XVL v10 at: [http://www.lattice3d.com/company/xvlv10\\_1.html](http://www.lattice3d.com/company/xvlv10_1.html)

 [Click here to return to Contents](#)

## ***Magma Announces Release of Talus 1.1 With Breakthrough Talus COre Technology and New Talus Flow Manager for Enhanced Designer Productivity -- Delivers 'Fastest Path to Silicon'***

27 May 2009

[Magma® Design Automation Inc.](#) announced the release of Talus® 1.1, a new RTL-to-GDSII chip implementation system that delivers the fastest timing closure on the largest and most complex semiconductor designs. Talus 1.1 utilizes the new Talus® COre™ technology, which leverages Magma's unified data model to perform timing optimization concurrently during routing, thus providing faster overall design closure with better performance and predictability. This greatly enhances designers' ability to achieve optimal results across a wide variety of designs -- while minimizing the need for user intervention. Unlike existing routing systems that perform optimization sequentially before and after place and route, and which focus only on layout-oriented routing factors such as design for manufacturability (DFM) or design rule checking (DRC), Talus focuses concurrently on timing and layout-driven metrics during routing.

In addition to its ability to provide the fastest turnaround on large designs, Talus 1.1 introduces the Talus® Flow Manager™ with "out-of-the-box" design flows. Included with the release are out-of-the-box reference flows for RTL-to-GDSII, multi-Vdd, low-power design and high-performance design -- engineers can tune the reference flows for specific applications. Talus Flow Manager also introduces a new visual analysis environment, Talus® Visual Volcano™, that integrates and presents all design and analysis data via a common display.

"For engineers creating ICs at advanced geometries, big chips, or chips where power management is important, Talus is superior to design systems from other EDA vendors," said Premal Buch, general manager of Magma's Design Implementation Business Unit. "The first breakthrough at Magma occurred when we added concurrent optimization to placement in our initial product, Blast Fusion. Our new Talus COre technology raises the bar by adding concurrent optimization to routing, resulting in faster design closure and better timing performance. Unlike other approaches, Talus delivers a level of design speed and efficiency that is ideal for small-geometry designs -- this also makes it ideal for designers creating big chips, those with 5 million gates or more. This will take on greater commercial significance for our customers as an increased portion of their designs target applications such as netbooks, smartphones and embedded devices that require bigger and more complex chips but also must be designed for low power."

Talus 1.1 was created to deliver optimal quality of results out of the box at advanced process nodes. It has already been used to tape out numerous production chips at 40 nm, and is presently ready for designs at 32 nm and 28 nm. Such technology is commonly found in System-on-a-Chip (SoC) designs, which integrate computing capabilities on a single chip.

### **Talus COre Technology**

The heart of the improvements in Talus 1.1 is its Concurrent Optimizing Routing Engine (COre) technology. At advanced geometries, complex resistance effects, increased via resistance and crosstalk

can create a large timing disconnect between placed gates and final routing. Dealing with optimization and routing sequentially results in a suboptimal solution with unpredictable results. Traditional solutions must spend time optimizing the design after routing to get the necessary accuracy, but at the cost of long runtimes. Talus COre focuses on applying the full scope of timing optimization incrementally during routing. Every aspect of the routing algorithms -- from topology generation to layer assignment, track assignment and DRC cleanup -- is timing and crosstalk aware. This allows the design to converge faster and eliminate post-route timing surprises. Talus COre is coupled with Talus' SDF-based optimization to remove the need for manual engineering change orders (ECOs) to close timing.

The addition of the Talus COre technology allows Talus 1.1 to deliver optimal quality of results out of the box on advanced process node design challenges. It has already been used to complete production designs where it provided a better than 5 times runtime improvement over competitive solutions and previous Talus versions. In customer beta testing on 40-nm designs ranging from 2 million to 4 million gates, with frequencies from 400 MHz to 800 MHz, Talus 1.1 produced 75 percent better timing with 10 percent fewer vias than the competitive results.

## **Talus Flow Manager and Visual Volcano**

Talus 1.1 also introduces the new Talus Flow Manager that provides an out-of-the-box Talus RTL-to-GDSII design flow tuned to deliver optimal results. Designers can easily customize the reference flow and tailor it to their own needs, developing specific flows for various projects or applications. Additional reference flows include templates for the implementation of multiple-voltage (MVdd), multiple-mode and multiple-corner (MMMC) designs, as well as low-power and high-performance designs. Ease of use and cost of adoption is dramatically improved through the use of these pre-qualified flows.

The Talus Flow Manager includes the new Talus Visual Volcano, a new technology designed to help designers make better decisions faster. The Talus Visual Volcano analysis environment offers an integrated information display that allows an engineer to quickly track many parameters of the design, including run times, timing, power and area. MMMC design management is made easier by simplifying the control over active versus reported scenarios, and displaying results for all scenarios concurrently. By consolidating this data into charts and graphs, the Talus Visual Volcano saves time and improves efficiency by removing the need for tedious analysis of log files and textual reports.

## **Production shipments of Talus 1.1 will begin in June 2009.**

 [Click here to return to Contents](#)

## ***New Add-On for KOMPAS-3D Makes Sheet Metal Design Even Easier***

26 May 2009

ASCON presents a new application for professional MCAD systems KOMPAS-3D and KOMPAS-Graphic – Unwrap Add-On. The library is intended to automate the design of dust, gas and air flues, pipelines and similar parts of sheet metal material. This add-on automates labour-consuming calculations and constructions and considerably accelerates the creation speed of working drawing for blanks of such parts. 'Unwrap library' is able to work both with KOMPAS-3D and KOMPAS-Graphic products. ASCON always tries to meet demands of its clients, so the add-on will be included in basic set of KOMPAS solution and to be supplied together with KOMPAS-3D V10 without extra costs.

This application is used to create unwrap drawings of selected units with specified precision, to calculate mass of product, and to save coordinates of curves as text file. ASCON supports its customers with a

# CIMdata PLM Industry Summary

---

brief video tutorial for familiarization and training of new add-on. The tutorial helps KOMPAS user to become proficient in design with Unwrap Add-On easy and quick.

To see the shapes can be unwrapped with the application visit <http://ascon.net/main/news/items/?news=639>.

Moreover, a text file containing information on design points of the unwrap's contour can be created. This feature can be used for CNC machines.

If you have any questions regarding new application please access [contact@ascon.net](mailto:contact@ascon.net).

 [Click here to return to Contents](#)

## ***progeCAD German Version Offers Improved AutoCAD Compatibility***

26 May 2009

progeSOFT in partnership with CADDIT and N.W.S. Germany announced the German translation release of progeCAD 2009 Professional CAD design software. Designers, engineers and architects accustomed to AutoCAD, Auto CAD LT or IntelliCAD can compare the cost-for-feature value free for 30 days.

Unlike most AutoCAD compatible CAD software, progeCAD 2009 far exceeds simple DWG file compatibility with special features like Google Earth export, PDF conversion, Quick-Dimensioning ("QDIM") and even an updated spell checker. Now German users enjoy the convenience of using progeCAD design commands in native German language.

AutoCAD LT users will find familiar features like paper space layout "print area visualization" and support for DIESEL expressions along with full DWG file compatibility - but at a fraction of the cost. progeCAD also supports true ACIS 3D model editing, AutoLISP and SDS program extensions - features not supported by most versions of AutoCAD LT. progeCAD's extensive DWG block collection library and manager has been extended with more CAD symbols. progeCAD's new "Advanced Data Extraction" wizard guides users in easily sharing block information with applications like Microsoft Excel. Other enhancements include new "one-click" text editing, an interactive "purge" command window and one-click entity grouping.

progeCAD Professional 2009 German includes eTransmit , eSnap-from, Asiatic font, ECW, O2C, SVG XML file support and basic raster-to-vector conversion software. progeCAD's "Express Tools" CAD design pack, easy-to-use attribute editing and "Find and Replace" text and attribute search make "progeCAD Professional - German version" a truly "professional" platform that is quite affordable - less than 300 Euros.

The German Translation of progeCAD demonstrates a significant effort in quality over similar German design software. Great care was taken to use technical terminology which German CAD users would be familiar with. An additional, full German help file will be released to all users later this year. Network NLM, USB mobile and corporate licensing options for the 2009 German version are available as well.

progeCAD is now used successfully by thousands of companies around the world like Honda, Q8, ABB, Holcim, Indus Motor and Schneider Electric in industries like building design and architecture, machine and mechanical design, furniture and appliances, industrial layout and production planning and more. "progeCAD 2009 - German version" helps German innovation to continue, but at a price more appropriate to the current economic climate.

# CIMdata PLM Industry Summary

---

progeCAD German CAD software translation was supervised by progeSOFT. progeCAD in German is available from numerous authorized progeCAD distributors around the world including progeSOFT ([www.progesoft.com](http://www.progesoft.com) , [www.progecad-deutschland.com](http://www.progecad-deutschland.com)) and CADDIT .

A [German language support forum](#) for progeCAD is also available.

 [Click here to return to Contents](#)

## ***Siemens PLM Software Announces Solid Edge with Synchronous Technology 2***

26 May 2009

[Siemens PLM Software](#) announced [Solid Edge® software with Synchronous Technology 2](#).

This release is the second version of Solid Edge to incorporate Siemens PLM Software's [synchronous technology](#), the first history-free, feature-based modeling capability that serves as a fundamental tool in helping customers react to the market faster.

“We were looking for something very flexible but also something with the full power of 3D feature modeling for modifying machine components,” said Ben Fune, process engineering manager, American Renolit Corp. “We found the best of both worlds in Solid Edge with synchronous technology.”

Solid Edge is a core component of the [Velocity Series™](#) portfolio and combines the speed and flexibility of direct modeling with the precise control of dimension-driven design. The latest release extends synchronous technology deeper in the product with improved part and assembly modeling as well as a new sheet metal application. With this release, Siemens PLM Software also announces a new built-in FEA tool and PDM integration leveraging the latest Microsoft SharePoint platforms.

### **Synchronized Part and Assembly Modeling**

The new release of Solid Edge extends synchronous technology within core part and assembly modeling for complex feature creation and advanced sketch editing tools that reduce overall design time. To improve 2D to 3D data migration, Solid Edge turns 2D dimensions from imported drawings into 3D driving dimensions during model creation, so users can edit 3D designs based on the intent from 2D. In addition, Live Sections can be used to simplify 3D model changes by letting users edit 2D cross sections cut through any part of a 3D model, and update the 3D model in real-time.

### **New Sheet Metal Design Application**

Solid Edge now applies synchronous technology to sheet metal design, creating a feature-based, history-free 3D design application for modeling straight brake sheet metal parts.

Sheet metal is the second application to leverage the power of synchronous technology ([CAM Express leveraging synchronous technology was first announced last December](#)) and further validates its extensibility. Synchronous technology brings new levels of productivity to the sheet metal environment so users can create models with less pre-planning, make changes with unbounded flexibility, and reuse and edit supplier data more effectively.

“A process-specific application such as sheet metal is a good example of a design discipline that requires a specialized skill set and unique features in the software,” said Dan Staples, director of Solid Edge product development, Siemens PLM Software. “Now our sheet metal customers can achieve the tremendous design time savings made possible by synchronous technology. And now that synchronous technology has been incorporated into sheet metal, you can see just how extensible this technology

really is."

## **New Solid Edge Simulation for FEA**

Solid Edge Simulation is a new optional analysis tool embedded into the CAD system that allows design validation of parts and assemblies earlier in the product development process for quicker time to market and reduced physical prototyping costs. It is based on Femap® software finite element modeling and NX™ Nastran® solver technology built into the Solid Edge user interface. It is easy for designers and engineers to use and promotes increased use of simulation within Solid Edge, fostering design innovation. Solid Edge Simulation also leverages synchronous technology to ease simulation model preparation and speed design refinements.

"These economic times force engineers to do more by themselves than ever before," said Bill McClure, vice president of product development for Velocity Series, Siemens PLM Software. "By embedding FEA into Solid Edge, more designs can be simulated in less time with minimal need to outsource analysis. This allows companies to respond to their customers faster with improved quality and lower costs."

## **Solid Edge with Insight for Design Data Management with Microsoft SharePoint**

Solid Edge now provides key enhancements to improve the embedded Insight™ design data management application, a key element of the Velocity Series strategy for scalable PDM, which also includes the Teamcenter® Express platform.

"Solid Edge Insight running on SharePoint Server adds design data management to enterprise collaboration for small and mid-sized businesses," said Don Richardson, director, Global Innovation and PLM Industry Strategy, Microsoft. "Siemens PLM Software, a long-time valued partner of Microsoft, has been utilizing SharePoint services since 2001, and continues to leverage the latest Microsoft technologies in its PLM applications to meet the business needs of customers."

Solid Edge with Insight leverages the latest Microsoft SharePoint® platform for improved collaboration, faster release workflows and enhanced security capabilities offered by Windows SharePoint Services (WSS) 3.0 and Microsoft Office SharePoint Server 2007 (MOSS). Solid Edge with Insight using the first version of SharePoint was introduced to the market in 2001 and today has more than 1000 customers. Moving Insight to the latest platform helps users reduce PDM deployment and ongoing support costs. Microsoft SharePoint is especially popular with small to medium size businesses (SMB's) and now totals over 100 million seats worldwide.

## **Availability**

Solid Edge with synchronous technology 2 is scheduled to ship this summer. For more information, visit the [launch blog](#) or contact your local partner.

 [Click here to return to Contents](#)

## ***SURFCAM Velocity 4® SPI Now Available***

26 May 2009

Surfware, Inc. announced the release of SURFCAM Velocity® 4 SP1. This release contains new features as well as enhancements from the SURFCAM user-base.

New features include:

# CIMdata PLM Industry Summary

---

- Three-Axis HSM machining - complete tessellation of helical and arc moves for the HSM rapid motions
- Direct read of the Solidworks Sketches
- Updated Toolkits
- Updated ACIS translator functionality affecting Catia, Step, Inventor, UG, ProE, and SLDPRT (via ACIS)
- The latest Mpost and Lpost executables for better handling of small arc length segments and turning operation support
- Partial toolpath display - NcEdit and backplot enhancements
- Toolpath/operation highlighting
- Enhancements to 4-5 axis cutting

“SURFCAM Velocity 4 SP1 demonstrates our ongoing commitment to provide the highest quality and most versatile CAM software available on the market today,” says Stephen A. Diehl, President and CEO of Surfware. “When people purchase SURFCAM, they gain a product that is known industry-wide for its innovation, ease of use and strong customer service.”

“We believe users will be particularly pleased with the steps we have taken in this service pack to make our software more robust, more reliable, and more powerful while giving the end users the features that they need for today's market,” states Greg Schils, Product Manager. “Our goal is to make sure that SURFCAM continues to be the gold standard of CAM software.”

Read the [product pages](#) for additional details.



[Click here to return to Contents](#)

## ***Synergis Software Releases Enhanced Integration with SolidWorks for Adept Engineering Document Management Software***

26 May 2009

Synergis Software, a SolidWorks Gold Certified Partner and the creator of [Adept engineering document management](#) and workflow software, announced the availability of Adept PDM 8.1, which features an enhanced integration with SolidWorks 3D CAD design software.

[Adept's integration with SolidWorks](#) improves the CAD user experience by including critical document management operations inside the 3D CAD application. The integration provides an Adept Task Pane that lets users search for files by metadata or an Explorer-like browser, then drag and drop the files into the SolidWorks graphics window. It also enables users to sign in/sign out, open, insert, copy and replace components; determine the status (In/Out/On Hold) of parts, assemblies, drawings and configurations; view thumbnail and parent-child relationship (references) for any selected file; and view any file's associated metadata using Adept's Library Cards. These powerful capabilities are available without having to leave SolidWorks.

Adept PDM 8.1 also features an Adept relationship tree -- similar in look and feel to SolidWorks' FeatureManager design tree -- with icons that show the status of a file; tool tips that display the file name, status, Library or owner; and check boxes to easily select files for sign out.

# CIMdata PLM Industry Summary

---

"Adept's new SolidWorks integration will significantly reduce our engineering time," stated Mike Sizemore, PDM Administrator/SolidWorks CSWP, P&H Mining Equipment, Milwaukee, Wisconsin. "The ability to work almost entirely within SolidWorks keeps our designers focused on completing engineering activities and staying on schedule."

According to Sizemore, the newly designed integration also delivers powerful capabilities while making it easier for CAD users to learn and adopt document management best practices. "Adept's search and linking capabilities are first class. And its task pane design makes it very easy to learn. We look forward to a long relationship with Synergis and Adept."

 [Click here to return to Contents](#)

## ***Synopsys Releases DesignWare SATA IP for New SATA 6Gbps Data Transfer Rate***

27 May 2009

Synopsys, Inc. announced the availability of DesignWare® SATA AHCI host and device digital controller IP for the latest SATA 6 Gigabit per second (Gbps) data transfer rate as defined in the Serial ATA (SATA) Revision 3.0 specification. This doubles the data rate of the previous (version 2.6) specification. DesignWare SATA IP significantly speeds the deployment of the 6Gbps interface into solid state drives and enterprise class storage system SoCs. Synopsys will be demonstrating its SATA 6Gbps capabilities in the SATA-IO booth at the upcoming Computex exhibition in Taiwan, June 2nd through June 6th.

The DesignWare SATA digital controllers for the SATA 6Gbps data transfer rate support numerous features available in the SATA Revision 3.0 Specification including new streaming Native Command Queuing (NCQ) and power management states. Streaming NCQ introduces isochronous priority to help improve the quality of service for audio/video streaming. For more power efficient systems, the DesignWare SATA controllers implement power mode states that allow a direct transition from partial to full slumber mode, bypassing the active state. Furthermore, the inclusion of a well-defined embedded DMA engine enables designers to achieve optimal system performance while maintaining low latency and minimal CPU overhead. The included VMM-enabled DesignWare SATA Verification IP speeds the development of powerful SystemVerilog testbenches.

"As a leading fabless design integrator, GUC is committed to delivering high quality designs to our customers," said Percy Tan, product marketing director at Global Unichip. "Synopsys is an established IP provider and utilizing their silicon-proven DesignWare SATA IP solutions for our state-of-the-art solid state drive designs enables us and our customers to significantly reduce risk, cost and speed development time of our complex SoCs."

The SATA interface has evolved to address the growing demand for higher performance, greater storage capacity and longer battery life in mass storage devices such as solid state drives, hard disk drives and host storage controllers. As devices saturate the current SATA 3Gbps data transfer rate, the SATA 6Gbps interface, with 600 MB/s of read/write speed, addresses high bandwidth needs. Furthermore, the latest specification is backward compatible with the SATA 1.5Gbps and SATA 3Gbps interfaces, allowing designers to easily migrate to the faster data transfer rate while maintaining interoperability with existing SATA products.

"By providing IP that supports the SATA 3.0 specification, Synopsys is enabling the design community to quickly adopt the SATA interface and benefit from the fast 6Gbps data transfer rate," said Marc Noblitt, SATA-IO board representative. "We look forward to seeing our members continue to drive

# CIMdata PLM Industry Summary

---

advancements that help make SATA the storage interface of choice."

"As a leading provider of SATA IP, Synopsys employs a comprehensive validation process to deliver DesignWare IP that is of high quality and functions to the SATA 3.0 specification," said Kevin Kearney, PSG director of Storage Protocol Products at LeCroy. "By utilizing LeCroy's protocol analyzer as an additional element in their verification process, Synopsys gives designers further confidence that the DesignWare SATA IP has met the full range of protocol requirements at the new higher 6Gbps speeds."

"Next generation SSD's and Enterprise Storage Controllers are driving significant advancements into the storage market such as higher bandwidth, enhanced power efficiency and increased reliability," said John Koeter, vice president of the Solutions Group at Synopsys. "As companies incorporate the new SATA 6Gbps interface in their high-performance SoCs, Synopsys is there with a high-quality, silicon-proven IP solution that will help designers quickly implement the latest SATA functionality with less risk and improved time-to-market."

Synopsys provides designers with a complete DesignWare SATA IP solution consisting of the device and host digital controllers, PHY and verification IP, which are silicon-proven and shipping in volume production. The complete solution has passed the latest SATA-IO Building Block interoperability testing at the SATA 3Gbps data transfer rate. Synopsys will participate in the SATA 6Gbps interoperability testing as it becomes available. Synopsys will be attending the upcoming SATA-IO Plugfest and Interoperability Workshop in June 2009 with its DesignWare SATA IP solution.

## **Availability**

The DesignWare SATA AHCI host and device digital controllers and verification IP for SATA 6Gbps are available now. For more information on Synopsys' complete DesignWare SATA IP solution consisting of the digital controllers, PHY and verification IP, please visit:

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



[Click here to return to Contents](#)

## ***Vero & CADENAS Join Forces***

26 May 2009

[Vero Software](#) announced a new collaboration with CADENAS, the largest external library of 3D standard components available on the market - CADENAS PARTsolutions has over 500 library suppliers, covering thousands of components for multiple market sectors. The integration of CADENAS PARTsolutions into VISI17 will enable tool makers to shorten design times by providing access to readily available standard components for their mould or die assemblies.

VISI 17, Vero's flagship product already contains intelligent 3D catalogues with over 50 dedicated suppliers to the tooling industry. The partnership with CADENAS further extends this capability and ensures that Vero customers have access to thousands of additional components.

Two levels of integration are available. The first level will be access to on-line catalogues via the CADENAS PARTserver portal. Catalogues are continually updated and can be downloaded directly from the internet in a number of CAD formats including a new native VISI \*.CVF format.

The second level of integration is a direct plug-in for VISI and requires a licensed installation of PARTsolutions on the host machine. In this case, the selected library component is immediately available and loaded directly into the current CAD session. Importantly, the data provided by

# CIMdata PLM Industry Summary

---

PARTsolutions when loaded by VISI is not a 'dumb solid' - the data contains all of the BOM attributes and associated cavities allowing the designer to use the catalogue data more efficiently.

Commenting on the collaboration with Vero, Jürgen Heimbach, General Manager of CADENAS says, “Vero offer an inimitable software solution, one that radically enhances the efficiency of design and manufacturing processes. We are proud of having such a well qualified partner who chose to integrate our parts management system”.

## About CADENAS GmbH

Today, the CADENAS group has subsidiaries in Germany, Austria, Italy, France, Spain, USA, South Korea and Croatia. The focus of the CADENAS group is process optimisation with parts management, parts consolidation and optimisation of marketing strategies through creation and marketing of electronic product catalogues.

 [Click here to return to Contents](#)

## *VX 2009 V14.01 Update Brings More Customer Driven Enhancements*

25 May 2009

VX Corporation announced the release of the v14.01 upgrade to VX 2009. This is the first point release, since the March production release of VX 2009 v14.0. The initial stability and reliability of VX 2009 has allowed VX to focus on more software enhancements rather than just on bug fixes. “VX CAD/CAM is continuously improving our quality and the production release of VX 2009 is solid evidence of that effort,” said Bob Fischer, VX Corporation, VP of Sales & Marketing. In addition to a completely new STEP translator, v14.01 has more modeling, drafting and machining enhancements as well as several GUI improvements.

### **All-new STEP™ Translator** supports AP 203 and 214

- Improved support of primitive surface types on import and export is helpful for detailing and assembly mates.
- Users have maximum control when importing and exporting. There is a switch to export an assembly as separate components, or as shapes in one part.

**Easy dynamic viewing** - more intuitive rotate and pan

### **Show-n-Tell™ built-in learning**

- Easier access to run Show-n-Tell 3D Tutorials that users have downloaded from the on-line [learning center](#).
- Updated QuickTips™ provides more helpful information to VX users.

### **Modeling and detailing enhancements**

- New support for heart-shaped dome features.
- Fast creation and easier editing options for BoM, hole, and trode tables.
- Sketcher supports negative dimensions

### **NEW Intelligent Feature Machining** (Mill2 Tactic)

# CIMdata PLM Industry Summary

---

- Automatic operation and tool selections based on 2D part features reduces programming time and effort.
- Now even faster calculation times for 2-axis feature machining.

## **More Milling and drilling enhancements**

- 5x Sidecut enhancements tighten up tool path.
- New parameters give users more control with 5x Swarfcut.
- Hole Drilling now supports simultaneous spot drilling.

A complete list of VX 2009 highlights and V14.01 enhancements are listed on [vx.com](http://vx.com). Just select the VX 2009 Highlights button on the home page.

Download a 30 day trial of [VX Innovator](#).

 [Click here to return to Contents](#)

## ***Wipro Launches Hosted Document Management Solution***

19 May 2009

[Wipro Technologies](#) announced the launch of Hosted Document Management (HDM) solution – a cost effective enterprise document management offering based on the Software as a Service (SaaS) model. The solution was developed as a part of the strategic alliance between Wipro and EMC Corporation and leverages EMC Documentum Enterprise Content Management 6.5 – helping enterprises address the need for robust and scalable enterprise content management (ECM) solutions and to manage the increasing demand for transactional content and business process efficiencies. The solution is being launched at EMC World, 2009, EMC’s international customer conference, being held at Orlando, May 18 – 21, 2009.

Wipro and EMC announced the strategic alliance in 2007 and have jointly developed solutions that address unique customer requirements across geographies. With the HDM model, Wipro and EMC will provide end-to-end document management services resulting in reduced costs and complexity for the clients. Utilizing EMC Documentum enterprise content management technology, HDM is built on Wipro’s SaaS platform and provides a scalable solution that simplifies the time-intensive act of data capture, management, retrieval and archival of business critical documents to make better use of valuable information assets.

The solution offers high scalability and flexibility and helps accelerate time- to-market by boarding new customers/processes in 4-6 weeks time. It allows customers to eliminate initial capital expenditure and reduce cost by over 30 per cent depending on customer requirements.

“HDM automates business processes and management of transactional content without having to worry about infrastructure, labor and time to market.” said Jayakrishnan Sasidharan, vice-president, Portals and Content Management, Wipro Technologies. “This results in substantial cost savings for the clients and helps address their specific ECM need of managing transactional content and enhancing business process efficiency.” he added.

The HDM solution can be configured to address the content management requirements of wide range of industries and business processes, including financial services, human resources, procurement, legal, manufacturing and real estate applications

# CIMdata PLM Industry Summary

---

“When we first announced EMC Documentum ECM 6.5, EMC truly raised the bar for the next-generation of enterprise content management – allowing IT to address today’s exploding content requirements while enhancing enterprise performance, security and compliance,” said Marc Burckin, Vice President Alliances, Content Management and Archiving Division at EMC. “Wipro is leveraging the feedback from customers to deliver a cost-effective document management solution that provides return on investment within six months. This offering will help large organizations realize the benefits of an innovative hosted document management solution that can significantly improve the efficiency of their document intensive business process.”

 [Click here to return to Contents](#)

## ***Zuken Launches CADSTAR ECAD – MCAD Bridge***

27 May 2009

Zuken is introducing an important new bridging technology to the [CADSTAR](#) design suite – CADSTAR BoardModeler Lite. This technology provides an optimized environment for the verification of the PCB layout in its mechanical environment. BoardModeler Lite creates a bridge between the ECAD and MCAD world using the industrial formats which are in common use in the MCAD world, namely ACIS, STEP, and STL format.

Zuken has a considerable array of R&D expertise at its design centres in Japan, Germany and the UK and this technology was initially developed for its high end applications. However Zuken, recognising the needs of the PCB designer working in an ECAD-MCAD environment, has brought BoardModeler Lite into the CADSTAR design suite for use by PCB Designer and Engineer alike.

Through BoardModeler Lite the designer can access and import/export ACIS, STEP, STL during the design process. Visualization, measurement and on-line desing rule checking capabilities allow the electrical design to be checked against the mechanical requirements. This allows the PCB layout to be checked in the earliest stages of the design process. Component placement changes, board outline and height limitation areas are automatically back annotated into the PCB design.

BoardModeler Lite replaces CADSTAR 3D offering an enhanced 3D environment to ensure that the PCB design fits the mechanical product design. This latter feature is a key benefit for products with complex case (housing) designs and limited height or space available for the electrical components.

The designer can undertake on-line collision checks as BoardModeler Lite indicates when the PCB design causes a problem with the imported housing, other PCB boards and other mechanical geometries (such as heatsinks). Using visual overview the designer monitors where problems are occurring. As each new constraint is added or altered the knock on results are shown immediately saving important design and manufacturing time.

BoardModeler Lite is available now. For more information or to locate your local CADSTAR Distributor please visit: <http://www.zuken.com/cadstardistributors> or <http://www.zuken.com/boardmodelerlite>

 [Click here to return to Contents](#)

## ***Zuken’s Electrical Verification Tool Now Available***

28 May 2009

# CIMdata PLM Industry Summary

---

Pooling knowledge from Zuken's other cabling design solutions, the development teams have shared expertise and introduce to E<sup>3</sup>.cable 2009 valuable additional technology for electrical verification that allows the user to verify and check the designed system's working capacity without having to export to third party verification environments.

With E<sup>3</sup>.cable Electrical Verification Zuken is adding enhanced functionality to its already comprehensive E<sup>3</sup>.series product suite. The E<sup>3</sup>.cable verification tool enables the busy designer to include functional intelligence to a drawing and by doing so, up to 14 types of calculations and checks can be utilized, including calculation of fuse sizes and current loads, checking fuse size and load factor, etc., This added functionality enables the designer to speed up and enhance the design process.

Previously designers would often have a spreadsheet open and running in parallel and check their design by typing in formulas from their design sheet to the spreadsheet. Now this functionality is integrated into the E<sup>3</sup>.cable 2009 design environment saving time and eliminating design re-work to provide increased quality product design.

E<sup>3</sup>.cable Electrical Verification 2009 is now available, for more information visit [www.zuken.com/E3](http://www.zuken.com/E3) or contact your [local E<sup>3</sup>.series distributor](#).

## **About E<sup>3</sup>.series:**

[E<sup>3</sup>.series](#) is Zuken's Windows-based modular, scalable and intuitive system for the engineering of electrotechnical, pneumatics and hydraulics applications; electronic components cabling and wiring harnesses. The sharing of a singular core object-orientated architecture that supports the entire engineering flow from concept creation through to manufacturing eliminates the need for data transfer between the different modules. This reduces errors, increases quality and allows engineering changes to be completed much more efficiently. E<sup>3</sup>.series can also be smoothly integrated with existing applications and processes through standard and customizable, bi-directional programmable interfaces.

 [Click here to return to Contents](#)