

Contents

Acquisitions	2
Cybernet Systems Co., Ltd to Acquire Maplesoft in Early September 2009	2
CIMdata News	3
What You Need To Know About Digital Manufacturing by CIMdata's President Ed Miller	3
Company News	4
Berkeley Design Automation Authors Win 46th Design Automation Conference Best Paper Award	4
Delcam FeatureCAM Celebrates Success Despite Downturn	5
DP Technology is Proud to be a Member of the Haas Technical Education Center Program (HTEC), Europe	6
INOvx Strengthens Management Team	7
RAND Worldwide Establishes Corporate Headquarters in Waltham, Massachusetts	8
SoftInWay Appoints EURO/CFD as a Distributor to Promote AxSTREAM Turbomachinery Design Software in France	9
SolidWorks 'Engineering Stimulus Package' Yields Results	10
Events News	11
COADE Discovery Tour on August 11 in Calgary to Feature CADWorx Plant Design Suite, CAESAR II, PV Elite and TANK Design and Analysis Software Products	11
Delcam CRISPIN to Show New Footwear CAD/CAM on Asian Tour	12
Delcam to Preview New FeatureCAM in Las Vegas	13
Engineering Days from Zuken Offers Industry and Solution Insight	14
Mentor Graphics Offers Verification Instruction in a Single Global Classroom	15
Financial News	16
ANSYS, Inc. Reports Second Quarter 2009 Results and Updates Outlook	16
Autodesk Extends Invitation to Join Its Second Quarter Fiscal 2010 Financial Results Conference Call Thursday, August 13, 2:00 p.m. Pacific Time	23
BlueCielo Reports Strong Results for 2008	23
CENIT 6 Months Result Sees 26 Percent Growth in Sales	24
Magma Announces Preliminary Q1 Results Expected to Exceed All Previous Guidance	25
MSC.Software Reports Financial Results for the Second Quarter and Six Months Ended June 30, 2009	26
Synopsis Announces Earnings Release Date and Conference Call for Third Quarter Fiscal Year 2009	31
Nemetschek Maintains Operating Margin at 20 Percent	32
Virage Logic Reports Third Quarter Fiscal 2009 Results	33
Implementation Investments	36
America's Oldest Hat Maker Bollman to Implement BlueCherry Enterprise Software	36
Analist Group Implements D-Cubed 2D DCM from Siemens PLM Software with New Portable AEC Application	37
Delcam's PowerSHAPE Cuts Design Times by 80%	38
HiSilicon Adopts Mentor Graphics Veloce Hardware Emulator to Accelerate Time-To-Market for their Next-Gen SoC Chip Sets	39
Magma Quartz DRC and Quartz LVS Support TSMC's New Unified Physical Verification Format	39
Nethra Enlists Cadence Incisive Palladium Accelerator/Emulator To Speed Development of Advanced HD Image Processor	40
Penn State Has Adopted AxSTREAM Software to Teach Turbomachinery Design	41

CIMdata PLM Industry Summary

Pepsi-Cola Enhances Reliability of Machinery with Dyadem Software _____	42
Rockchip Collaborates with Synopsys and Chartered to Achieve First-Pass Silicon Success _____	43
Toshiba International Corporation Selects PARTsolutions to Launch First Online 3D Parts Catalog _____	44
VISTAGY'S FiberSIM® Software Helps Cut Time in Half to Design and Produce Diffuser for ING Renault F1 Team's R29 Race Car _____	45
West-ward Pharmaceutical to Manage Quality Systems with "Pilgrim On-Demand" _____	46
Product News _____	47
Autodesk and Vela Systems Collaborate to Provide Building Information Modeling for the Field _____	47
Bentley's RAM Advance Becomes RAM Elements _____	49
Delcam Launches Fastest-Ever CAM _____	50
Informative Graphics Launches Latest Brava! Family with Eye on Global Use _____	50
Kubotek Announces Partnership with Tech Soft 3D to License Adobe 3D Technology _____	51
Lattice Technology Releases German version of XVL Player Version 10 _____	52
Maxwell Technologies and ANSYS Release Ultracapacitor Components Library for Use in Simplorer _____	52
Mentor Graphics Library of Questa Multi-view Verification Components Supports HDMI _____	54
NEi Fusion 2.0 with Nastran Targets "In-CAD" FEA Market _____	55
PLM, PDM and ERP Integration Tools Now Support XVL v10, the Latest, Most Compressed 3D Data Format _____	56
Tekla Structures Launches Integration with BuildSite Construction Product Database _____	57
Zuken Collaborates with Major Automotive Companies for Improved EMC and Power Integrity Capabilities in CR-5000 Lightning _____	58

Acquisitions

Cybernet Systems Co., Ltd to Acquire Maplesoft in Early September 2009

30 July 2009

Maplesoft announced that it has signed a definitive agreement to be acquired by Cybernet Systems Co., Ltd., a Tokyo-based major Japanese importer/distributor of CAE (computer aided engineering) software. By combining the skills of two organizations, the intent is to drive further innovation in the development and promotion of advanced math and engineering software worldwide. The acquisition is expected to be completed at the beginning of September of this year.

Cybernet recognizes the potential of Maplesoft products, and supports Maplesoft's efforts to be a leading provider of high-performance software tools for engineering, science, and mathematics. Cybernet worked with Maplesoft for many years as a highly successful reseller of Maplesoft products in Japan, substantially growing the math and engineering customer base in both the academic and professional markets.

"We at [Cybernet Systems](#) are confident that Maplesoft will bring to us world-class technology, expertise and know-how, combined with an expanding international client base in technical calculation and physical modeling," says Kuniaki Tanaka, President of Cybernet Systems.

Maplesoft will continue to function as a separate entity and existing Maplesoft customers will experience no change in the way they interact with Maplesoft. Customer contacts for Sales, Support and Customer Service will remain the same and Maplesoft's products and solutions will continue along a consistent development cycle, without interruption.

"I'm pleased with the ability this partnership gives us to further advance our products and solutions," says Jim Cooper, Maplesoft President and CEO. "With long-term support and investment from Cybernet

CIMdata PLM Industry Summary

into further research and development for our products, I am excited about the possibilities that lie ahead as we continue to develop a state-of-the-art environment that will transform the way engineers, scientists, mathematicians, educators and students use technology.”

 [Click here to return to Contents](#)

CIMdata News

What You Need To Know About Digital Manufacturing by CIMdata’s President Ed Miller

4 May 2009

Companies in a wide range of manufacturing industries recognize the importance of Digital Manufacturing for significantly improving their competitiveness in today’s volatile economy. The underlying concepts of these solutions have evolved over the years, and have included initiatives such as design-for-assembly, design-for-manufacturability, concurrent engineering, and approaches that promote more collaborative product and process design. From these initiatives, the breadth and depth of Digital Manufacturing has continued to evolve and mature.

Today, complete manufacturing facility definition—including tooling, assembly lines, work centers, ergonomics, and resources—is an integral part of the manufacturing process planning environment. Full understanding of the production of products, including machine operations and human interaction in assembly, are the result. Simulations of all facets of the production process can be developed and utilized to optimize the processes. Feedback from actual production operations are incorporated and utilized to effectively modify the process definitions to take maximum advantage of real experiences and better utilize capabilities and resources.

Digital Manufacturing embraces, and even requires, the use of various technologies, but those technologies do not automatically provide Digital Manufacturing just by their implementation. Rather, the approach is implemented as a suite of processes and best practices that the company uses to achieve optimal manufacturing process definition.

In most cases, companies that have invested in Digital Manufacturing over the past several years have done so with a view that it is a “point solution.” However, more forward-thinking companies understand that the role of Digital Manufacturing is a critical part of Product Lifecycle Management (PLM), and these companies are receiving the highest level of benefits from their investments. Indeed, Digital Manufacturing is a key point of integration between PLM and factory automation equipment such as PLCs and transfer lines, and many of the long-term benefits from PLM are simply not achievable without incorporating a comprehensive Digital Manufacturing strategy. This migration of PLM onto the shop floor provides an opportunity to better exchange product-related information between the design and manufacturing groups so that processes in both areas can be developed collaboratively instead of in isolation.

One of the important characteristics of Digital Manufacturing is that it fully incorporates the product and process definition into a comprehensive and consistent approach. It facilitates a holistic view of product and process design as integral components of the overall product lifecycle, and enables product design to be sensitive to process constraints and capabilities. The result is a tremendous clarification of the relative roles and boundaries between PLM and enterprise resource planning (ERP) environments, two of the primary areas of investment for industrial companies. The clarification of this boundary should clarify and facilitate future development of integrations between these two major areas of investment.

CIMdata PLM Industry Summary

Digital Manufacturing impacts the overall product lifecycle, but is primarily focused on supporting the portion of the lifecycle that is centered on manufacturing engineering activities. Of course, these impact the lifecycle from the early stages of product design all the way through final production of the product. Digital Manufacturing provides the bridge between the full product definition including both configuration of components and definition of the manufacturing processes necessary to produce the product, and the actual manufacturing production activities within the enterprise. See page 14 for Digital Manufacturing's overall role in the product lifecycle.

A full Digital Manufacturing program implemented as part of corporate-wide PLM strategy holds tremendous potential in achieving major benefits including: shortened product development cycles and earlier visibility of manufacturing issues, faster time-to-volume production and subsequently shorter time-to-market, reduced manufacturing costs and fewer production ramp-up problems, and improved product quality.

Digital Manufacturing has demonstrated its value at many companies and provided significant payback. One large aerospace firm employs Digital Manufacturing as part of a broad PLM environment within their aircraft engine operations to manage approval, notification, and tracking of documents, establish routings and work instructions, and manage process templates. A head of manufacturing engineering noted that through commonization, reduction in design changes, quality improvements, and productivity gains, the company obtained payback on its investment in less than one year. This example is not unusual. Research conducted by [CIMdata](#) on Digital Manufacturing implementations indicates that companies around the world have achieved very positive results and have validated the potential value for organizations to make Digital Manufacturing a fundamental part of their overall product program. A survey of companies with Digital Manufacturing implementations of various sizes indicates exceptionally impressive return on investments (ROIs). Relatively small \$200,000-investments yielded annual savings of \$1-million for a 5:1 ROI, for example, while larger investments in the range of \$5-million to \$10-million lead to annual savings of \$50-million to \$100-million for a 10:1 ROI.

Clearly, substantial benefits are available for companies making the investment in Digital Manufacturing, and having an understanding of the changes that must be made in business operations to best leverage these technology-based solutions. Organizations taking the initiative to implement Digital Manufacturing as a component of PLM broadly across the enterprise are better able to successfully compete in the global market and will undoubtedly be among their industry's winners in the coming decades.

Column from: [Time Compression](#), **Contributed by:** Ed Miller, President, CIMdata Inc

Posted on: 5/4/2009



[Click here to return to Contents](#)

Company News

Berkeley Design Automation Authors Win 46th Design Automation Conference Best Paper Award

5 August 2009

[Berkeley Design Automation Inc.](#), provider of the Analog FastSPICE™ unified circuit verification platform for advanced analog, mixed-signal, and RF integrated circuits (ICs), announced that the 46th Design Automation Conference (DAC) awarded Best Paper honors to Amit Mehrotra, CTO, Berkeley Design Automation and Abhishek Somani, Senior Member of Technical Staff, Berkeley Design

Automation.

The winning paper, “A Robust and Efficient Harmonic Balance (HB) Using Direct Solution of HB Jacobian”, by Berkeley Design Automation authors, describes a novel direct solver harmonic balance simulation approach that is significantly faster than traditional Krylov solver harmonic balance simulation approaches for highly nonlinear circuits. Berkeley Design Automation will offer the technology as part of an upcoming release of its Analog FastSPICE platform.

“Of the 148 technical papers presented at the 46th DAC, 7 were nominated as best paper award candidates by the Technical Program Committee,” said Patrick Groeneveld, Technical Program co-chair, 46th DAC. “A committee of select experts has carefully reviewed these papers and has also attended the presentations at DAC. We traditionally pick two best papers awards each year. In 2009 one paper clearly stood out, so the committee selected it as the single best paper award winner.”

The Analog FastSPICE platform is the industry’s only unified circuit verification platform for analog, mixed-signal, and RF design. It is a single executable that uses advanced algorithms and numerical analysis to rapidly solve the full-circuit matrix and original device equations without any shortcuts. AFS Platform tools include: AFS Nano SPICE simulator, Analog FastSPICE circuit simulator, Noise Analysis Option™ device noise analyzer, and RF FastSPICE™ multi-tone periodic analyzer.

 [Click here to return to Contents](#)

Delcam FeatureCAM Celebrates Success Despite Downturn

5 August 2009

Delcam held its annual FeatureCAM Sales Partner Meeting recently at the Delcam USA headquarters in Salt Lake City, UT. Delcam USA President Glenn McMinn said, “Despite the economic downturn, Delcam reported a successful first half of the year with FeatureCAM. An important reason for the success is our diversity, both in the markets we supply and our geographic coverage.”

CIMdata reported earlier this year that Delcam has moved into third place by revenue, behind Dassault and Siemens, in the list of leading suppliers of CAM software and services. In addition, Delcam is the only CAM specialist to appear in the top five suppliers to all of the geographic regions (America, Asia and Europe) and key industries (mold, tool and die, automotive and aerospace) covered in the report.

A major part of the Partner Meeting program is training on the new product enhancements. “Our customers continue to praise the rapid development of our software. This is particularly due to the many developers devoted to the FeatureCAM product in the US but also the shared technology within Delcam teams abroad,” McMinn added. “Our top sales partners increased their FeatureCAM sales by more than 25%, which is quite impressive given the state of the US economy. We attribute this first and foremost to the efforts of the sales channels but also to the many improvements in development.” Without sacrificing the ease of use of the software, Delcam has been able to add more focus on turn/mill and 5-axis simultaneous machining which has created more sales opportunities, and so increased market share.

The top FeatureCAM Sales Partner award went to TriMech Manufacturing, a division of TriMech Solutions. ProFORCE Integrated Solutions won the Most Improved Sales Partner award. Other winners from the Delcam direct sales channel included Christian Briscoe, top direct sales person and Blaine Duke most improved direct sales person.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

DP Technology is Proud to be a Member of the Haas Technical Education Center Program (HTEC), Europe

3 August 2009

Computer-Aided-Manufacturing software developer [DP Technology](#), creator of ESPRIT® is an industry partner in the Haas Automation HTEC program, helping to deliver the best CNC education to students across the European continent.

Originally established in the United States and Canada, the HTEC program was conceived as a way of helping young people to build rewarding and lucrative careers in precision engineering by giving them the opportunity to train on the latest and the best manufacturing technology.

Haas Automation Europe (HAE) has already supplied more than 400 CNC machine tools to European schools — many of which are fully-fledged HTECs — on which an estimated 4000 students are trained annually. Many of these students also benefit from hands-on experience with ESPRIT® software.

“Companies and local economies in Europe are realizing that they can’t prosper in the long-term unless they make products that people want to buy,” says Peter Hall, managing director of Haas Automation Europe.

“HTECs are helping to destroy old, preconceived ideas about careers in manufacturing,” Hall says. “They appeal to young people because they provide clean, high-tech and stimulating learning environments. They appeal to schools and colleges because they enthuse the students and help to build closer relations with local companies, which create jobs. As a result, we are witnessing a significant increase in the numbers of students wishing to pursue careers in precision engineering.”

In addition to supplying its software to European HTECs, DP Technology provides educational and technical support, helping to ensure that students are well prepared for industry when they leave education.

“Thanks to DP, HTECs can afford to invest in the latest CAM technology,” says Bert Maes, HTEC coordinator at HAE. “The combination of Haas CNC machine tools and powerful, world-class CAM makes a formidable teaching resource.”

According to Maes, it’s no wonder that the number of students choosing careers in precision engineering has declined over the years.

“Ancient machine tools and dark and dirty workshops do not attract bright and ambitious young people,” he says. “Before they experience an HTEC, they usually have no idea that cell phones, electric guitars, laptops and parts for most of the every-day consumer products we take for granted are made using CNC machine tools and CAM.”

HTECs are created by forming alliances between Haas distributors (called Haas Factory Outlets, or HFOs), leading CNC technology companies, such as DP, and local educational institutions. DP was one of the first companies asked to become an HTEC industry partner by Haas Automation Europe.

“DP has shown great enthusiasm for the HTEC ethos and the aim of the program,” Maes said. “The local ESPRIT representatives in Europe are very committed and work continually to provide better applications, better demonstrations and better training seminars. We can’t make the HTEC program work without the support of companies like DP Technology and our other industry partners.”

About the Haas Technical Education Center Program

CIMdata PLM Industry Summary

The European HTEC program was launched to counter what Haas Automation regards as one of the greatest threats to sustainable economic development on the continent: the shortage of talented and motivated young people entering the precision engineering industry with CNC machining skills. The program provides Haas Automation CNC machine tools to technical learning establishments in Europe and around the world. As part of their studies, students at HTEC establishments use Haas machines and in the process become familiar with the latest CNC machining technology. With this kind of hands-on experience, students have better employment opportunities when they finally leave full-time education. The HTEC program also benefits local and national engineering companies, which have access to better-educated apprentices.

Haas Automation works with several important industry partners who supply the latest CNC support technology to make the HTEC program a reality. Haas Automation Europe plans to open 200 HTEC's across Europe within five years, including 25 in 2009. For more information, visit <http://www.htecnetwork.eu>.

 [Click here to return to Contents](#)

INOVx Strengthens Management Team

31 July 2009

INOVx announced the addition of two new members to its management team, Tom Galanty and George Bauer.

“Tom and George bring a wealth of experience to our team,” said Costantino (Tino) Lanza, CEO of INOVx Solutions. “We will be taking the company to the next level and both Tom and George will contribute to our future success.”

Tom Galanty will serve as INOVx's Senior Vice President of Business Development. Tom will concentrate on leading new growth initiatives for INOVx including expanding the business internationally and into new vertical markets. Tom brings to INOVx, 23 years of global technology leadership experience in enterprise software and industrial automation systems for the process manufacturing industries. Tom's experience includes a variety of senior leadership roles with Honeywell's Hi-Spec Solutions advanced application division and Honeywell's Asia Pacific operations based in Singapore. Most recently, Tom served as Executive Vice President of Global Operations & Technology for Progressive Gaming.

“INOVx provides an intuitive, natural way to optimally run an asset intensive business and will dramatically transform industry work practices,” commented Mr. Galanty. “Timing is very good for scaling INOVx's business globally. INOVx customers in the global energy and hydrocarbon processing industries have been embracing the RealityLINx software solution for its proven benefits in operational and maintenance efficiencies, and improved safety, environmental, and regulatory compliance. I am honored to join INOVx at this exciting time”.

George Bauer has been named as Vice President of Marketing. In this role, George will drive the promotion and positioning of INOVx and the RealityLINx product, as well as contribute to the product direction. George has over 25 years of experience in various technical sales and marketing positions in manufacturing automation and software businesses. Prior to his current role at INOVx, George was responsible for Siemens MES solutions serving the chemical, oil and gas industry worldwide. Mr. Bauer also served as Vice President of Marketing for IndX Software, as well as various roles with Invensys and Groupe Schneider. George's career includes a six year assignment in Asia in an Asia/Pacific

CIMdata PLM Industry Summary

business development role.

“[INOVx](#) is a recognized leader and early innovator in the emerging Asset Virtualization space,” said Mr. Bauer. “In particular, I am thrilled to be a part of the team at a time when many of the leaders in the oil and gas industry are taking up the INOVx Asset Virtualization vision.”

 [Click here to return to Contents](#)

RAND Worldwide Establishes Corporate Headquarters in Waltham, Massachusetts

4 August 2009

[RAND Worldwide](#) announces that it has completed the move of its global corporate headquarters to Waltham, MA in the United States. The move is a further step in the process begun with the acquisition of RAND Worldwide by the US-based venture capital firm, Ampersand Ventures. The new RAND Worldwide corporate headquarters are located at 1601 Trapelo Road, Suite 162, Waltham, MA, 02451. The Company’s Canadian headquarters remain in Mississauga, Ontario.

Marc Dulude, chairman, president, and CEO at RAND Worldwide states, “As a US owned company, with a new US-based management team, it was important for us to formally establish our headquarters in the US, our largest market, in order to better service and support our US customers. We remain focused on growing our Canadian operations and providing the best service to our Canadian customers and we will retain our Canadian headquarters in Ontario. After making these significant changes and with the worst of the economic slowdown behind us, we are ideally poised for future growth in both important markets.”

In support of this transition, RAND Worldwide is pleased to announce two key additions to the senior leadership team in the Waltham location. Greg Magoon has joined the company as executive vice president and chief financial officer. Previously, Mr. Magoon spent seven years at publicly held Moldflow Corporation where he most recently served as the company’s executive vice president and chief financial officer.

In addition to Mr. Magoon, Lori Henderson joined the RAND Worldwide team as executive vice president, chief administrative officer and general counsel. Prior to joining the company, Ms. Henderson served as general counsel at Moldflow Corporation from 1999 until the Autodesk acquisition of Moldflow in 2008. To further facilitate the establishment of a US headquarters, functional department heads have been hired to lead the finance and accounting, human resources, information technology and marketing departments from the Waltham office.

In conclusion, Dulude adds “We pride ourselves on being able to offer our clients a wide range of best-in-class technology solutions and we deliver those with an exceptionally high level of support through our training and implementation services. We expect this headquarters transition to be seamless and that our clients will continue to receive the high quality of service they have come to expect from us. Each of the RAND Worldwide business units retains the same locations for their operations and headquarters including RAND IMAGINiT Technologies, one of Autodesk’s largest, direct value-added resellers.”

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

SoftInWay Appoints EURO/CFD as a Distributor to Promote AxSTREAM Turbomachinery Design Software in France

7 August 2009

SoftInWay Inc. announced that EURO/CFD, a France-based company specializing in CFD and numerical simulations, has become its distributor to expand the company's presence in the French market of engineering software. This agreement will result in EURO/CFD developing SoftInWay's sales network in the country and enabling French engineers to access the latest in turbomachinery design technology using AxSTREAM – the core product of SoftInWay.

With today's over-growing development of the numerical simulation industry in the world and the lack of professionals having multi-sector and multi-disciplinary experience, there is a trend to find new and effective tools to address these engineering challenges. To overcome these challenges, SoftInWay developed AxSTREAM which allows one to achieve optimized design results very quickly.

AxSTREAM is a software suite for design, redesign, analysis and multidisciplinary optimization of axial and radial turbomachinery flow paths. Starting from preliminary design, AxSTREAM performs inverse and direct 1D/2D analysis and optimization, 3D profiling/stacking of the airfoils, 3D FEA and CFD, and, finally, exports the results to 3D CAD programs. Extremely user-friendly, it allows engineers to considerably reduce the design time without sacrificing the accuracy of calculations.

Vincent Soumoy, EURO/CFD Sales Manager, explained the company's position: "EURO/CFD has numerous contacts in the turbomachinery industry who will certainly be interested in the AxSTREAM software suite. One of the key benefits of AxSTREAM is that it allows a complete calculation of rotating machinery parameters, providing a fast, accurate and highly-predictable solution. It is also finely tuned to export the results to the commercial 3D CFD programs. Overall, I think AxSTREAM will be in high demand here in France."

"We are confident that EURO/CFD will be efficient in presenting the AxSTREAM software suite in the highly competitive French market and help SoftInWay reach new European clients," – added Leonid Moroz, SoftInWay President and CEO.

About EURO/CFD

[EURO/CFD](#) is a French company specializing in numerical simulation of physical phenomena, namely in fluid dynamics. With the increasing industry demand on research and development, EURO/CFD offers solutions customized according to individual needs of each client. Founded in 2005 by two experts in scientific simulation, EURO/CFD will meet your industry requirements and help attain your objectives.

The leader in its industry niche, having a dozen of experts, users of most of the commercial CFD software, and the computing power of over 220 processors, EURO/CFD contributes to its clients' success by using technology and expertise to guide them along their projects.

About SoftInWay

[SoftInWay Inc.](#) is a USA corporation, headquartered in Burlington, MA. The company's mission is to serve the high technology community by providing software products and engineering services in the area of research, design and digital prototyping of power generation equipment. SoftInWay develops products for rapid turbomachinery design, provides technical engineering services and uses in-house and industry standard CFD, FEA and CAD tools to address design issues at the earliest possible stage to maximize engineering productivity and increase the efficiency and reliability of equipment. The core

product, AxSTREAM™, is an integrated solution based on over 400 years of collective turbomachinery experience of SoftInWay engineering team, with the clear goal of bringing to industry a professional software tool for rapid, optimized turbomachinery flow path design.

 [Click here to return to Contents](#)

SolidWorks ‘Engineering Stimulus Package’ Yields Results

3 August 2009

Nick Cook wasn’t looking for work until the economy “turned my 401K into a 201K.”

Early in his search, the retired aerospace engineer heard of a possible opening at a local company, [Aerocet](#), that makes advanced composite aircraft floats for seaplanes. But there was a catch: Aerocet engineers use SolidWorks® CAD software, yet Cook had used a different program his whole career.

Cook contacted Dassault Systèmes [SolidWorks Corp.](#) and learned that the company gives free SolidWorks licenses to displaced designers and engineers, so he downloaded the software. A week later, he let Aerocet know he was getting up to speed on their preferred CAD program. Impressed with his initiative, not to mention his resume, the Priest River, Idaho, company hired him.

“I’m grateful SolidWorks was available to me,” Cook says. “It’s a real service for DS SolidWorks to offer it to job seekers who need it. It helped me land a truly perfect job working on some exciting products. If the [Engineering Stimulus Package \(ESP\) Program](#) had not been available, I’m not sure what I would have done.”

Cook’s colleagues at Aerocet appreciate the program, too. “We have a high-caliber engineering team with uncompromising standards, and Nick is a perfect fit,” said Operations Manager Garry Hojan. “His initiative to start learning SolidWorks confirmed his passion for joining our company, and he hit the ground running.”

More than 9,000 participants

Cook is just one of the success stories emerging from the SolidWorks Engineering Stimulus Package program unveiled April 6 to give job-seekers a chance to learn valuable new career skills in computer-aided design. A recent DS SolidWorks survey of ESP participants found that:

More than 9,000 displaced designers and engineers have taken advantage of the free SolidWorks CAD software.

More than one in 10 respondents had secured jobs by mid-July.

More than 80 participants have become Certified SolidWorks Associates ([CSWAs](#)).

Another 253 are actively seeking certification.

More than 60 authorized SolidWorks resellers have provided free training to ESP participants in North America and Europe.

Resellers have offered more than 100 training sessions.

SolidWorks ‘Engineering Stimulus Package’ Yields Results –

The ESP also helped authorized SolidWorks reseller FISHER/UNITECH build on the success of its own CAD skills (re)training program. “After learning SolidWorks basics, most participants were eager to extend their experience with SolidWorks for an additional 90 days through the ESP,” said President and

CIMdata PLM Industry Summary

CEO Charles Hess. “These individuals were already good designers and engineers, and now they are becoming very, very good at SolidWorks. They will make fine hires by the lucky employers who get them. In fact, several have already secured new jobs where SolidWorks experience was a deciding factor.”

Program still in effect

The ESP gives free SolidWorks CAD software licenses, training videos and tutorials, networking, certification, and potential job leads to any job seeker. “The ESP expresses our gratitude to the global community of users who have made us the success we are,” said Fielder Hiss, vice president of product management for DS SolidWorks. “We’re mindful that they have placed their faith and trust in us from the earliest days of the company, and we are paying that generosity back. The ESP is exactly what we should be doing to provide some assistance to our constituents at this challenging time.”

The SolidWorks Engineering Stimulus Package includes:

Software: a 90-day license of the SolidWorks Student Design Kit software for non-commercial use, with tutorials and documentation, plus the SolidWorks [eDrawings](#)[®] email-enabled file sharing tool;

Training: Hands-on test drives and other training from participating SolidWorks value-added resellers (VARs) around the world;

Networking: Access to the SolidWorks Customer Portal for support, networking, and discussion; and

Certification: Free testing to become a CSWA, a credential that documents SolidWorks competence and distinguishes job candidates for selective employers.

The ESP program’s success is being replicated around the world. It was launched in Europe May 5 and will soon expand to Australia, New Zealand, Malaysia, Singapore, and India.

To participate in or learn more about the SolidWorks Engineering Stimulus Package, visit http://www.solidworks.com/sw/esp/engineering_stimulus_package.html [SolidProfessor](#), a company focused on creating the best on-demand knowledge resources for users of SolidWorks and SolidWorks-related software, is DS SolidWorks’ official online training partner in the Engineering Stimulus Package program.

 [Click here to return to Contents](#)

Events News

COADE Discovery Tour on August 11 in Calgary to Feature CADWorx Plant Design Suite, CAESAR II, PV Elite and TANK Design and Analysis Software Products

4 August 2009

COADE announced that a COADE Discovery Tour event is scheduled for August 11, 2009, in Calgary, Alberta, Canada, organized in conjunction with CodeCAD, COADE Global Network Partner in the region. Featured will be introductions to the company’s CADWorx Plant Design Suite; CAESAR II, a widely used program for pipe stress analysis; PV Elite for the design and analysis of pressure vessels and heat exchangers; PV Fabricator, COADE’s new program that creates vessel fabrication drawings directly from analysis data; and TANK, for the design and analysis of oil storage tanks. These educational events allow plant designers and engineers to see these plant design and engineering analysis 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 are scheduled for August 12 in Quito, Ecuador; August 13 in Guayaquil, Ecuador; August 12 in Vancouver, British Columbia, Canada; August 14 in Edmonton, Alberta, Canada; August 25 in Seattle, Washington; August 26 in San Francisco, California; August 27 in Los Angeles, California; and October 6 in Caracas, Venezuela. Details and registration information are available at COADE's website, www.coade.com. Information on CodeCAD is at <http://www.codecad.com>.

 [Click here to return to Contents](#)

Delcam CRISPIN to Show New Footwear CAD/CAM on Asian Tour

6 August 2009

Delcam CRISPIN will demonstrate its expanded range of design and manufacturing software for the footwear industry at a series of free seminars across Asia in the coming weeks. The seminar series starts on 26th August in Ho Chi Minh City, Vietnam, and then moves to Bangkok, Thailand, on 1st September, and Houjie, China, on 4th September, before finishing in Beijing on 10th September.

Despite the current slowdown, Delcam CRISPIN is still seeing a high level of interest in its programs from manufacturers looking to increase their productivity and improve quality. The company officials say it is already the world's largest supplier of CAD/CAM software to the footwear industry – it is the only supplier able to provide a complete solution for the design and manufacture of both uppers and soles.

The most important of the new programs to be shown during the seminars will be the latest release of the 3D upper design module, ShoeDesign, which features an improved user interface. ShoeDesign provides a comprehensive range of options to develop new designs, either based on an existing last or when creating a completely novel product. The software comes with a wide range of materials, textures and colours, while features like stitching, padding, eyelets and laces can all be included.

The main focus of the new version has been on improving the ease of use, so making the software simpler for new users to learn and faster for experienced operators to use. The interface has been revised, in particular to reduce the number of icons on the screen at any one time. In addition, the cursor action has been improved to speed up the drawing of style lines, and the selection of menus and icons.

The most significant of the new products to be shown will be TechPac – a 2D system to generate technical packages for footwear designers to supply to their manufacturing partners. TechPac allows designers to specify the manufacturing processes to be used and the sequences of operations to be followed at all stages of the production of the shoe. It will help ensure that the design is produced exactly as specified and to the required delivery schedule.

The system is supplied with pre-defined templates to specify the path for the flow of manufacturing data during production. These templates can be modified by the user to cover any specific requirements of the design and manufacturing companies, or of the particular project. 2D part geometry, models and images can be imported into the documentation from the range of Delcam CRISPIN design software. All of the documents can be provided as pdf or HTML reports so making it easy for everyone involved in the project to exchange data electronically.

TechPac incorporates basic 2D engineering capabilities, plus comprehensive text functionality, with formatting options including font, colour and scale, so that the manufacturing companies can mark up

CIMdata PLM Industry Summary

the documents with any comments or queries on the suggested processes. For example, reference lines can be added onto the parts for operations like stitching, skiving and folding, together with images and text on the type of machine to be used.

Other developments on show will include a new version of the LastMaker software for last design. This has also been made easier to use, both for the creation of standard lasts and for the development of bespoke designs. Improved editing tools for cross-sections have been added to allow more specific adjustment to the overall design. Similarly, profile-line editing has been enhanced to make it easier to modify the outline shape of the last. Templates are available for the toe, back-curve and bottom sections of the last, so that these can be incorporated into the design more quickly and easily.

The ability has been added to compare scanned foot data with an existing digital last, to help produce a custom-made pair of lasts. Control planes, based on standard foot measurements, have been included, making it simpler to adjust standard last shapes for a bespoke design.

Developments will also be demonstrated in the base 2D Engineer package. The main new functionality allows Edge Templates to be appended to a part boundary, allowing dependent margins, makers, stabs and notches to be added after the boundary has been created. In addition, work has continued on many areas of 2D Engineer to make the software faster and easier to use.

 [Click here to return to Contents](#)

Delcam to Preview New FeatureCAM in Las Vegas

5 August 2009

Delcam will preview the new version of its FeatureCAM feature-based machining software on booth #428 at the AMMO exhibition taking place in Las Vegas August 17-19th 2009. The new version, which will be launched later this year, will include enhancements across the full range of FeatureCAM functionality, reflecting the increased investment in development of the software since its acquisition by [Delcam](#) in 2005.

The most innovative new programming option is combined drilling and milling functionality that will allow more efficient hole creation on machines fitted with automatic tool changing. It generates roughing and finishing toolpaths to produce any holes for which the appropriate drill is not loaded, using the existing tooling within the machine's crib. The new option is much faster than having to change the tooling available to match the set of hole sizes in each job, especially for companies manufacturing prototypes or short-run components.

It will also allow complex parts to be produced more easily in cases where the range of hole sizes is larger than the number of positions in the crib. In addition, the number of different tools that need to be stocked can be reduced and it will be much simpler to move jobs between different machine tools. Companies that do not have automatic tool changing on their machines can also benefit because, in some cases, it will be possible to use a combination of drilling and milling with a single cutter to generate all the holes in a part.

Another important development is support for multi-threading when generating 3D toolpaths. This allows calculations to be spread across multiple cores in dual- or quad-core computers. Average time savings are around 25% on a dual-core PC.

Improved algorithms have been introduced within the user interface to speed up the editing of features and to reduce the time needed to switch between machine-tool set-ups, while more efficient handling of

CIMdata PLM Industry Summary

stock models will reduce the memory required and so enhance performance still further.

The range of post-processors available with FeatureCAM has been further extended for both five-axis and mill-turn equipment. New machines now supported include the DMG CTX and GMX, Doosan Puma MX and TT, Mazak Integrex ST, Nakamura NTX and NTJX, and Okuma Macturn.

“FeatureCAM was the world’s first feature-based programming system when it was introduced in 1995,” states Development Director Tom McCollough. “More recently, other CAM developers have tried to copy our automated approach to programming. However, with our longer history and bigger R&D investment, we believe that FeatureCAM still maintains its clear leadership in knowledge-based machining.”

 [Click here to return to Contents](#)

Engineering Days from Zuken Offers Industry and Solution Insight

6 August 2009

Beginning in October 2009 Zuken is hosting Engineering Days, the company’s annual events across Europe. [The Zuken Engineering Days \(ZED\)](#) will include new product previews, offer information on the latest industry trends, provide tips and tricks for users, and deliver updates on Zuken’s current company strategy.

Building upon the success of Zuken’s Engineering Days in 2008, these locally held events will feature speakers from a wide range of industry bases, commenting on broad design issues as well as specific case study presentations. Attendees will include existing customers, members of the industry press, and companies keen to learn more about Zuken’s solutions.

Zuken will demonstrate the soon to be launched latest revision of the integrated design and verification platform for system-wide PCB design, [CR-5000](#) version 12, which includes the exciting expansion of the solution’s integrated PCB design prototyping solution, [CR-5000 Lightning](#). The 2010 version of [E³.series](#), Zuken’s engineering solution for electrotechnical, pneumatic, hydraulic, cabling and wire harness applications, will also be showcased. In select locations, Zuken’s desktop PCB design software, [CADSTAR](#) 12, will also be demonstrated.

Agendas do vary from country to country, so please click on the nearest venue for more specific information and to register. But hurry as seating is strictly limited.

Registrations can be made now at www.zuken.com/engineeringdays

CALL FOR SPEAKERS AND EXHIBITORS

There are still some sessions available in agenda, if you are interested in doing a presentation at one of the local engineering days, please contact your local PR person – contact details below. Tabletop exhibit stands are also available, and Zuken is now accepting applications for participation.

ZUKEN ENGINEERING DAYS 2009

[05-06 October, 2009](#)

[Ulm, Germany Venue - Maritim Hotel](#)

[28-29 October, 2009](#)

[Hannover, Germany Venue - Copthorne Hotel](#)

[10 November, 2009](#)

[Bologna, Italy Venue - Novotel](#)

[17 November, 2009](#)

[Zurich, Switzerland Venue - Mövenpick Zürich-Airport Hotel](#)

[18 November, 2009](#)

[Warwick, United Kingdom Venue - Warwick Heritage Centre](#)

[19 November, 2009](#)

[Paris, France Venue - to be confirmed](#)

 [Click here to return to Contents](#)

Mentor Graphics Offers Verification Instruction in a Single Global Classroom

6 August 2009

Mentor Graphics Corporation announced the Verification Academy, a highly-accessible approach to meet the educational needs of verification engineers. The goals of this online academy are to provide the skills necessary to mature an organization's advanced functional verification process capabilities. To this end, the Verification Academy provides a methodological bridge between high-level value propositions (related to advanced verification technology) and the low-level details (related to specific tool and verification language details). The Verification Academy, which features Harry Foster as the primary instructor, can be accessed around the clock at: <http://verification-academy.mentor.com/>.

"The Verification Academy provides well-sized, informative presentations on some of the advanced verification techniques used by Icera, from high-level processes of interest to managers, through to technical material for hands-on engineers," said Kevin Dewar, Silicon Engineering Director, Icera Semiconductor. "We expect to use the material to develop the skills of engineers new to these techniques, and to refine the skills of experienced engineers."

About the Verification Academy

Where Education Meets Opportunity a web seminar to introduce the Verification Academy to prospective users is scheduled for August 12, 2009, 9:00 AM – 10:00 AM (PST). For more information on the seminar visit: <http://www.mentor.com/products/fv/events/verification-academy-webseminar>.

Currently the Verification Academy contains the following modules with additional modules planned for release over the coming year:

Evolving Capabilities Module

Ensuring functional correctness on RTL designs continues to pose one of the greatest challenges for today's ASIC, FPGA and SoC design teams. This module provides a common framework for all advanced functional verification modules contained within the Verification Academy. A simple evolving capabilities model is presented, which can be used as a tool for assessing an organization's functional verification process capabilities.

Assertion-Based Verification Module

The design effort for complex ASICs has been able to scale linearly by increasing design reuse and

adopting a well-architected, platform-based design structure. Unfortunately, functional verification has not benefited directly from this approach. This module explores one way to address increased design complexity to supplement traditional functional verification methods with assertion-based verification (ABV). Today, ABV has been successfully applied at multiple levels of design and verification abstraction —ranging from high-level assertions within transaction-level test benches down to implementation-level assertions synthesized into emulation and hardware.

(CDC) Clock-Domain Crossing Verification Module

For the past dozen or so years, static timing analysis has served the industry well by ensuring that all synchronous design blocks will not violate any of the design's setup and hold-timing constraints. However, with the convergence of multiple applications into a complex SoC (such as digital-audio, video, wireless, and networking), as well as the industry's adoption of an IP reuse strategy, project teams are now faced with a new set of clocking verification challenges that are not addressed by static timing analysis. This module introduces clock-domain crossing concepts and provides insight into understanding the challenges encountered in complex SoCs.

 [Click here to return to Contents](#)

Financial News

ANSYS, Inc. Reports Second Quarter 2009 Results and Updates Outlook

6 August 2009

Highlights

Non-GAAP revenue of \$124.2 million and GAAP revenue of \$122.0 million

Non-GAAP diluted earnings per share of \$0.43, or \$0.41 adjusted for certain items, and GAAP diluted earnings per share of \$0.30

Operating cash flows of \$43.4 million

Non-GAAP operating profit margin of 47.3%; GAAP operating profit margin of 33.3%

ANSYS, Inc. (NASDAQ: ANSS), a global innovator of simulation software and technologies designed to optimize product development processes, today announced second quarter 2009 results.

"While the global environment remains challenging, our revenues were within the range of our outlook with the ANSYS organic business stable in constant currencies. Our non-GAAP earnings exceeded the upper end of the range and were further supplemented by approximately \$.02 of favorable tax benefits. We continued to deliver on our stated objectives of strong operating margins and cash flows, even during a time when the exact timing of business intake patterns is difficult to predict," stated Jim Cashman, ANSYS president and CEO.

Cashman continued, "This quarter's results reflect our ongoing commitment to manage our business with strong discipline. At the same time, we have been able to help our customers adjust to the current climate by leveraging ANSYS technology to improve their own competitive positions with better quality, innovative products created in less time and at lower cost. While delivering on commitments, we have also continued to prepare for future growth opportunities and eventual market improvement. With the recent commercial release of ANSYS^(R) 12.0 and ANSYS WorkbenchTM 2.0, and upcoming releases of our AnsoftTM suite of products, we are excited about the strength of our product portfolio and

CIMdata PLM Industry Summary

believe that we are well-positioned to continue delivering long-term value to our customers and our stockholders."

ANSYS' second quarter 2009 financial results are presented below. The non-GAAP results exclude the income statement effects of stock-based compensation and acquisition-related amortization of intangible assets. The 2009 non-GAAP results also exclude the effects of purchase accounting adjustments to deferred revenue. These non-GAAP results include approximately \$1.3 million (\$840,000 after tax) of restructuring charges and \$2.0 million of tax benefits related to settlements of tax years previously under audit. Excluding these items, the Company's non-GAAP diluted earnings per share for the three and six months ended June 30, 2009, would have been \$0.41 and \$0.79, respectively.

Non-GAAP and GAAP results reflect:

Total non-GAAP revenue of \$124.2 million in the second quarter of 2009 as compared to \$111.2 million in the second quarter of 2008; total non-GAAP revenue of \$245.6 in the first six months of 2009 as compared to \$220.8 million in the first six months of 2008; total GAAP revenue of \$122.0 million in the second quarter of 2009 as compared to \$111.2 million in the second quarter of 2008; total GAAP revenue of \$238.3 million in the first six months of 2009 as compared to \$220.8 million in the first six months of 2008;

A non-GAAP operating profit margin of 47.3% in the second quarter of 2009 as compared to 48.4% in the second quarter of 2008; a non-GAAP operating profit margin of 46.7% in the first six months of 2009 as compared to 47.9% in the first six months of 2008; a GAAP operating profit margin of 33.3% in the second quarter of 2009 as compared to 39.4% in the second quarter of 2008; a GAAP operating profit margin of 31.7% in the first six months of 2009 as compared to 38.8% in the first six months of 2008;

Non-GAAP net income of \$38.9 million in the second quarter of 2009 as compared to \$34.7 million in the second quarter of 2008; non-GAAP net income of 73.4 million in the first six months of 2009 as compared to \$67.2 million in the first six months of 2008; GAAP net income of \$27.1 million in the second quarter of 2009 as compared to \$28.1 million in the second quarter of 2008; GAAP net income of \$48.2 million in the first six months of 2009 as compared to \$54.0 million in the first six months of 2008; and

Non-GAAP diluted earnings per share of \$0.43 in the second quarter of 2009 as compared to \$0.42 in the second quarter of 2008; non-GAAP diluted earnings per share of \$0.80 in the first six months of 2009 as compared to \$0.82 in the first six months of 2008; GAAP diluted earnings per share of \$0.30 in the second quarter of 2009 as compared to \$0.34 in the second quarter of 2008; GAAP diluted earnings per share of \$0.53 in the first six months of 2009 as compared to \$0.66 in the first six months of 2008.

The Company's GAAP results reflect stock-based compensation charges of approximately \$3.0 million (\$2.4 million after tax) or \$0.03 diluted earnings per share for the second quarter of 2009 and approximately \$6.1 million (\$4.9 million after tax) or \$0.05 diluted earnings per share for the first six months of 2009. The non-GAAP financial results highlighted above, and the non-GAAP financial outlook for 2009 discussed below, represent non-GAAP financial measures. Reconciliations of these measures to the appropriate GAAP measures, for the three and six months ended June 30, 2009 and 2008, and for the 2009 financial outlook, are included in the condensed financial information included in this release.

Management's Remaining 2009 Financial Outlook

CIMdata PLM Industry Summary

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

Third Quarter 2009 Guidance

The Company currently expects the following for the quarter ending September 30, 2009:

GAAP revenue in the range of \$123.4 - \$129.4 million

Non-GAAP revenue in the range of \$124 - \$130 million

GAAP diluted earnings per share of \$0.27 - \$0.31

Non-GAAP diluted earnings per share of \$0.40 - \$0.42

Fiscal Year 2009 Guidance

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

GAAP revenue in the range of \$501.9 - \$519.9 million

Non-GAAP revenue in the range of \$510 - 528 million

GAAP diluted earnings per share of \$1.13 - \$1.26

Non-GAAP diluted earnings per share of \$1.66 - \$1.76

The preceding third quarter 2009 guidance excludes non-recurring pre-tax charges of approximately \$3.2 - \$4.5 million associated with continued headcount right-sizing initiatives that management estimates will be substantially finalized during the third quarter. The fiscal year 2009 guidance excludes non-recurring pre-tax charges of approximately \$4.5 - \$5.8 million related to these activities, \$1.3 million of which was recorded in the 2009 second quarter.

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

Conference Call Information

ANSYS will hold a conference call at 10:30 a.m. Eastern Time on August 6, 2009 to discuss second quarter results. The call will be recorded and a replay will be available approximately two hours after the call ends. The replay will be available for one week by dialing 800-642-1687 (US & Canada) or 709-645-9291 (Int'l) and entering the passcode 19821486. The archived webcast can be accessed, along with other financial information, on ANSYS' website at <http://investors.ansys.com>.

ANSYS, INC. AND SUBSIDIARIES

Condensed Consolidated Balance Sheets

(in thousands)

(Unaudited)

June 30, 2009 December 31, 2008

CIMdata PLM Industry Summary

ASSETS:

Cash & short-term investments	\$ 254,187	\$ 233,875
Accounts receivable, net	50,886	61,823
Goodwill	1,046,019	1,048,003
Other intangibles, net	346,204	373,398
Other assets	137,828	147,415
Total assets	\$ 1,835,124	\$ 1,864,514

LIABILITIES & STOCKHOLDERS' EQUITY:

Deferred revenue	\$ 182,744	\$ 166,189
Long-term debt (including current portion)	238,556	279,425
Other liabilities	205,083	236,001
Stockholders' equity	1,208,741	1,182,899
Total liabilities & stockholders' equity	\$ 1,835,124	\$ 1,864,514

ANSYS, INC. AND SUBSIDIARIES

Consolidated Statements of Income

(in thousands, except per share data)

(Unaudited)

	Three Months Ended		Six Months Ended	
	June 30, 2009	June 30, 2008	June 30, 2009	June 30, 2008
Revenue:				
Software licenses	\$ 73,136	\$ 73,915	\$ 143,625	\$ 147,551
Maintenance and service	48,890	37,331	94,711	73,240
Total revenue	122,026	111,246	238,336	220,791
Cost of sales:				
Software licenses	2,366	2,056	4,666	4,403
Amortization of software and acquired technology	9,001	4,768	17,997	9,952
Maintenance and service	12,193	13,706	24,525	27,082
Restructuring charges	498	-	498	-
Total cost of sales	24,058	20,530	47,686	41,437
Gross profit	97,968	90,716	190,650	179,354
Operating expenses:				
Selling, general and administrative	32,570	28,153	66,395	56,862
Research and development	19,909	16,528	39,939	32,486
Amortization	4,021	2,181	8,019	4,351
Restructuring charges	808	-	808	-
Total operating expenses	57,308	46,862	115,161	93,699
Operating income	40,660	43,854	75,489	85,655
Interest expense	(2,941)	(1,242)	(6,218)	(2,227)
Interest income	360	1,212	929	2,808
Other (expense) income, net	(817)	(378)	(1,305)	554
Income before income tax provision	37,262	43,446	68,895	86,790
Income tax provision	10,125	15,317	20,663	32,807
Net income	\$ 27,137	\$ 28,129	\$ 48,232	\$ 53,983
Earnings per share - basic:				
Basic earnings per share	\$ 0.31	\$ 0.36	\$ 0.55	\$ 0.69

CIMdata PLM Industry Summary

Weighted average shares - basic	87,726	78,503	88,296	78,403
Earnings per share - diluted:				
Diluted earnings per share	\$ 0.30	\$ 0.34	\$ 0.53	\$ 0.66
Weighted average shares - diluted	91,048	82,083	91,612	81,863

ANSYS, INC. AND SUBSIDIARIES

Reconciliation of Non-GAAP Measures

(Unaudited)

(in thousands, except percentages and per share data)

	Three Months Ended			June 30, 2008		
	June 30, 2009			June 30, 2008		
	As Reported	Non-GAAP Adjustments	Results	As Reported	Non-GAAP Adjustments	Results
Total revenue	\$122,026	\$ 2,189(1)	\$124,215	\$111,246		\$111,246
Operating income	40,660	18,147(2)	58,807	43,854	\$9,999(4)	53,853
Operating profit margin	33.3 %		47.3 %	39.4 %		48.4 %
Net income	\$27,137	\$11,734(3)	\$38,871	\$28,129	\$6,575(5)	\$ 34,704
Earnings per share - diluted:						
Diluted earnings per share	\$0.30		\$0.43	\$0.34		\$0.42
Weighted average shares - diluted	91,048		91,048	82,083		82,083

(1) Amount represents the revenue not reported during the period as a result of the purchase accounting adjustment associated with EITF 01-3, "Accounting in a Business Combination for Deferred Revenue of an Acquiree."

(2) Amount represents \$12.9 million of amortization expense associated with intangible assets acquired in business acquisitions, including amounts primarily related to acquired software, customer list, trademarks and non-compete agreements, a \$3.0 million charge for stock-based compensation, as well as the \$2.2 million adjustment to revenue as reflected in (1) above.

(3) Amount represents the impact of the adjustments to operating income referred to in (2) above, adjusted for the related income tax impact of \$6.4 million.

(4) Amount represents \$6.8 million of amortization expense associated with intangible assets acquired in business acquisitions, including amounts primarily related to acquired software, customer list and non-compete agreements, and a \$3.2 million charge for stock-based compensation.

(5) Amount represents the impact of the adjustments to operating income referred to in (4) above, adjusted for the related income tax impact of \$3.4 million.

ANSYS, INC. AND SUBSIDIARIES

Reconciliation of Non-GAAP Measures

(Unaudited)

(in thousands, except percentages and per share data)

	Six Months Ended			June 30, 2008		
	June 30, 2009			June 30, 2008		
	As Reported	Non-GAAP Adjustments	Results	As Reported	Non-GAAP Adjustments	Results
Total revenue	\$238,336	\$7,263(1)	\$245,599	\$220,791		\$220,791
Operating income	75,489	\$39,228(2)	114,717	85,655	\$19,997(4)	105,652
Operating profit margin	31.7 %		46.7 %	38.8 %		47.9 %
Net income	\$48,232	\$25,139(3)	\$73,371	\$53,983	\$13,186(5)	\$ 67,169

CIMdata PLM Industry Summary

Earnings per share - diluted:

Diluted earnings per share	\$0.53	\$0.80	\$0.66	\$0.82
Weighted average shares - diluted	91,612	91,612	81,863	81,863

(1) Amount represents the revenue not reported during the period as a result of the purchase accounting adjustment associated with EITF 01-3, "Accounting in a Business Combination for Deferred Revenue of an Acquiree."

(2) Amount represents \$25.8 million of amortization expense associated with intangible assets acquired in business acquisitions, including amounts primarily related to acquired software, customer list, trademarks and non-compete agreements, a \$6.1 million charge for stock-based compensation, as well as the \$7.3 million adjustment to revenue as reflected in (1) above.

(3) Amount represents the impact of the adjustments to operating income referred to in (2) above, adjusted for the related income tax impact of \$14.1 million.

(4) Amount represents \$14.1 million of amortization expense associated with intangible assets acquired in business acquisitions, including amounts primarily related to acquired software, customer list and non-compete agreements, and a \$5.9 million charge for stock-based compensation.

(5) Amount represents the impact of the adjustments to operating income referred to in (4) above, adjusted for the related income tax impact of \$6.8 million.

ANSYS, INC. AND SUBSIDIARIES
Reconciliation of Forward-Looking Guidance
Quarter Ending September 30, 2009

	Earnings Per Share Range - Diluted
U.S. GAAP expectation	\$0.27 - \$0.31
Adjustment to exclude acquisition-related amortization	\$0.08 - \$0.09
Adjustment to exclude purchase accounting adjustments to deferred revenue	\$0.00 - \$0.01
Adjustment to exclude stock-based compensation	\$0.03
Non-GAAP expectation	\$0.40 - \$0.42

ANSYS, INC. AND SUBSIDIARIES
Reconciliation of Forward-Looking Guidance
Year Ending December 31, 2009

	Earnings Per Share Range - Diluted
U.S. GAAP expectation	\$1.13 - \$1.26
Adjustment to exclude acquisition-related amortization	\$0.34 - \$0.35
Adjustment to exclude purchase accounting adjustments to deferred revenue	\$0.05 - \$0.06
Adjustment to exclude stock-based compensation	\$0.11 - \$0.12
Non-GAAP expectation	\$1.66 - \$1.76

Use of Non-GAAP Measures

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

Management uses non-GAAP financial measures (a) to evaluate the Company's historical and prospective

CIMdata PLM Industry Summary

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

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

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

Purchase accounting for deferred revenue. As announced on July 31, 2008, ANSYS acquired Ansoft Corporation. In accordance with the fair value provisions of EITF 01-3, "*Accounting in a Business Combination for Deferred Revenue of an Acquiree*," acquired deferred revenue of approximately \$7.5 million was recorded on the opening balance sheet, which was approximately \$23.5 million lower than the historical carrying value. Although this purchase accounting requirement has no impact on the Company's business or cash flow, it adversely impacts the Company's reported GAAP software license revenue primarily for the first twelve months post-acquisition. In order to provide investors with financial information that facilitates comparison of both historical and future results, the Company has provided non-GAAP financial measures which exclude the impact of the purchase accounting adjustment. The Company believes that this non-GAAP financial adjustment is useful to investors because it allows investors to (a) evaluate the effectiveness of the methodology and information used by management in its financial and operational decision-making and (b) to compare past and future reports of financial results of the Company as the revenue reduction related to acquired deferred revenue will not recur when related annual lease licenses and software maintenance contracts are renewed in future periods.

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

Stock-based compensation expense and its related tax impact. The Company incurs expense related to stock-based compensation included in its GAAP presentation of cost of software licenses, cost of maintenance and service, research and development expense and selling, general and administrative expense. Although stock-based compensation is an expense of the Company and viewed as a form of compensation, management excludes these expenses for the purpose of calculating non-GAAP operating income, non-GAAP operating profit margin, non-GAAP net income and non-GAAP diluted earnings per share when it evaluates the continuing operational performance of the Company. Specifically, the Company excludes stock-based compensation during its annual budgeting process and its quarterly and annual assessments of the Company's and management's

CIMdata PLM Industry Summary

performance. The annual budgeting process is the primary mechanism whereby the Company allocates resources to various initiatives and operational requirements. Additionally, the annual review by the board of directors during which it compares the Company's historical business model and profitability as it relates to the planned business model and profitability for the forthcoming year excludes the impact of stock-based compensation. In evaluating the performance of senior management and department managers, charges related to stock-based compensation are excluded from expenditure and profitability results. In fact, the Company records stock-based compensation expense into a stand-alone cost center for which no single operational manager is responsible or accountable. In this way, management is able to review on a period-to-period basis each manager's performance and assess financial discipline over operational expenditures without the effect of stock-based compensation. The Company believes that these non-GAAP financial measures are useful to investors because they allow investors to (a) evaluate the Company's operating results and the effectiveness of the methodology used by management to review the Company's operating results, and (b) review historical comparability in its financial reporting, as well as comparability with competitors' operating results.

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

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

GAAP Reporting Measure	Non-GAAP Reporting Measure
Revenue	Non-GAAP Revenue
Operating Profit	Non-GAAP Operating Profit
Operating Profit Margin	Non-GAAP Operating Profit Margin
Net Income	Non-GAAP Net Income
Diluted Earnings Per Share	Non-GAAP Diluted Earnings Per Share

 [Click here to return to Contents](#)

Autodesk Extends Invitation to Join Its Second Quarter Fiscal 2010 Financial Results Conference Call Thursday, August 13, 2:00 p.m. Pacific Time

3 August 2009

What:

Autodesk, Inc. announced that it will broadcast its second quarter fiscal 2010 financial results conference call live via its website Thursday, August 13, 2009, at 2:00 p.m. Pacific Time.

How:

Autodesk will host a live webcast call at <http://www.autodesk.com/investors>. An audio replay webcast and podcast will also be available after 4:00 p.m. Pacific Time on our website at <http://www.autodesk.com/investors>

Contact:

For more information, please call Autodesk Investor Relations at 415-507-6705.

 [Click here to return to Contents](#)

BlueCielo Reports Strong Results for 2008

3 August 2009

CIMdata PLM Industry Summary

[BlueCielo ECM Solutions](#) announced that it has achieved strong financial results for 2008. Net revenue grew more than 37% to \$18.3 million and the net profit increased by 5% to \$3.4 million.

License revenue grew by 23%, maintenance revenue by 23% and services revenue by nearly 90%.

Sales revenue in both the EMEA and North American markets grew more than 30%.

Martijn Janmaat, CEO of BlueCielo ECM Solutions, explains the company's strategy of becoming the leading engineering content management solution for owner/operators is paying off. "Our focus on providing solutions to help our customers leverage engineering content to manage their enterprise assets is paying off," Janmaat said. "In these challenging economic conditions our customers have an urgent focus on increasing business efficiency, decreasing plant costs and improving regulatory compliance. Our solutions are helping address these strategic issues for process, power and infrastructure companies."

 [Click here to return to Contents](#)

CENIT 6 Months Result Sees 26 Percent Growth in Sales

5 August 2009

The 2nd Quarter 2009 was strongly influenced by short-time work at the plants of our auto industry customers. Particularly our services sector suffered from this development and had to work below capacity for the first time. Simultaneously, the result was adversely affected by the US business of CENIT's subsidiary in Michigan. But we continue to strive against the negative general economic trend. The services business dominates sales distribution within the Group, because software sales have been especially hard hit by the general reluctance to invest. However, we are registering a slight reversal of this trend. The full consolidation of CAD scheffler GmbH into CENIT AG is another important development.

Overview of 6 Months Figures

Group-wide sales increased significantly to 43.1 m €(06/2008: 34.3 m €+26%) at the end of the 2nd Quarter. The gross surplus grew to 29.7 m €(06/2008: 28.3 m €+5%). EBITDA attained 1.5 m €(06/2008: 1.4 m €+8%). EBIT during the reporting period amounted to 0.8 m €(06/2008: 0.9 m €-5%). The pre-tax result (EBT) was 1.0 m €(06/2008: 1.12 m €-12%). The consolidated result was 0.7 m €(06/2008: 1.0 m €-24%). Consolidated EPS (earnings per share) thus derive to 0.09 €per share (06/2008: 0.12 €-25%).

On 30 June 2009, equity capital totalled approx. 26.1 m €(31.12.2008: 25.4 m €), accounting for an equity ratio of 61% (31.12.2008: 64%). On the balance-sheet date, bank deposits and securities incl. current assets totalled 16.8 m €(31.12.2008: 13.2 m €). The enterprise remains debt-free. The operative cash flow amounted to 1.3 m €(30.06.2008: 1.5m €). On the balance-sheet date, the number of employees was 705 (06/2008: 687). Orders in hand amounted 24 m €(6/2008: 29.6 m €) and incoming orders totalled 39.66 m € (6/2008: 52.3 m €). It is not possible to have a significant comparability to last year's figures because the 2nd quarter in 2008 was affected by a major order.

Breakdown of Earnings

Sales in the services sector grew by 21% to a current 27.8m €(06/2008: 23.0 m €), making services the strongest contributor to sales with a share of 64%. Sales of CENIT software during the first 6 months of the current business year totalled 4.0 m €(06/2008: 4.5 m €/-11%). Sales of CENIT's proprietary

CIMdata PLM Industry Summary

software thus account for approx. 9% of total sales. Thanks particularly to the VAR model, the non-CENIT software business grew by 134% to 10.9 m €(06/2008: 4.7 m €), accounting for 25% of total sales. Other revenues amounted 0.3 m €

Holdings – Foreign Subsidiaries

CENIT (Switzerland) AG achieved sales of 1.9 m €(06/2008: 1.9 m €), accounting for EBIT of 0.6 m € (06/2008: 1.0m €).

With sales of 2.5 m €(06/2008: 2.7 m €), CENIT North America Inc. attained negative EBIT of -0.4 m €(06/2008: 0.1m €).

With sales of 0.3 m €(06/2008: 0.4 m €), CENIT SRL achieved EBIT of 0.1 m €(06/2008: 0.2 m €).

The CENIT company in Toulouse, France realized sales of 0.2 m €(06/2008: 0.1 m €) and EBIT of 0.03 m €(06/2008: 0.02 m €).

Outlook

[CENIT AG](#) intends to steadily adhere to its profitable business policy.

 [Click here to return to Contents](#)

Magma Announces Preliminary Q1 Results Expected to Exceed All Previous Guidance

6 August 2009

Magma® Design Automation Inc. in anticipation of its presentation at the Canaccord Adams Global Growth Conference, today announced that preliminary results indicate the company exceeded all previously announced guidance for its fiscal 2010 first quarter, ended August 2, 2009. Preliminary results for the first quarter include:

- REVENUE: Revenue is expected to be in the range of \$28.6 million to \$28.8 million, above the company's guidance range of \$27.5 million to \$28.5 million.
- EPS: Net loss per share in accordance with generally accepted accounting principles (GAAP) is expected to be in the range of \$(0.17) per share to \$(0.16) per share, better than the company's guidance range of a loss between \$(0.20) per share and \$(0.19) per share.
- CASH FLOW: Cash flow generated from operations is expected to exceed \$4.5 million.

The foregoing results are preliminary and may be subject to adjustments following final closing of financial results for the quarter and completion of the company's independent auditor's review. Magma will present at the Canaccord Adams Global Growth Conference on August 13, 2009 and release first quarter results after the close of Nasdaq trading on August 27, 2009.

Earnings Call

CIMdata PLM Industry Summary

Magma management will discuss the financial results for the recently completed quarter, along with forward-looking guidance, during a live earnings call on August 27, 2009 at 2 p.m. PDT, available live by both webcast and telephone. To listen live via webcast visit the Investor Relations section of Magma's website at <http://investor.magma-da.com/medialist.cfm>. To listen live via telephone, call either of the numbers below:

U.S. & Canada: (877) 419-6597

Elsewhere: (719) 325-4846

Following completion of the call, a webcast replay of the call will be available at <http://investor.magma-da.com/medialist.cfm> through Sept. 3, 2009. Those without Internet access may listen to a replay of the call by telephone until 11:59 p.m. PDT on Sept. 3 by calling:

U.S. & Canada: (888) 203-1112, code #7649971

Elsewhere: (719) 457-0820, code #7649971

 [Click here to return to Contents](#)

MSC.Software Reports Financial Results for the Second Quarter and Six Months Ended June 30, 2009

4 August 2009

MSC.Software Corporation reported results for the second quarter ended June 30, 2009. Key financial results include the following:

Second quarter:

- Total second quarter revenue of \$51.7 million, with software revenue of \$14.9 million, maintenance revenue of \$32.0 million, and services revenue of \$4.8 million;
- Second quarter operating loss of \$2.6 million.

Six Months:

- Total revenue for the six months of \$105.3 million, with software revenue of \$32.3 million, maintenance revenue of \$63.0 million, and services revenue of \$10.0 million;
- Operating loss for the six months of \$1.1 million;
- Deferred revenue totaled \$77.3 million, cash totaled \$148.2 million and working capital was \$119.4 million at June 30, 2009.

On July 7, 2009, MSC.Software announced that it has entered into a definitive agreement with affiliates of Symphony Technology Group (STG) under which a company controlled by STG will acquire all of MSC's outstanding shares in a one-step cash merger transaction valued at approximately \$360 million. Under the terms of the agreement, MSC's stockholders will receive \$7.63 in cash for each share of MSC common stock. The transaction is subject to customary closing conditions, including approval of MSC's stockholders and regulatory approvals. This transaction is proceeding and is expected to close near the end of the third quarter of 2009. As a result of the recent announcement of a definitive merger

CIMdata PLM Industry Summary

agreement with Symphony, MSC will not hold its 2009 second quarter conference call previously scheduled for Wednesday, August 5, 2009, at 1:30 p.m. PT.

Revenue

Total revenue for the second quarter ended June 30, 2009 was \$51.7 million compared to \$64.4 million for the second quarter in 2008. Software revenue for the second quarter totaled \$14.9 million compared to \$21.1 million for the second quarter in 2008. For the second quarter ended June 30, 2009, maintenance revenue totaled \$32.0 million and services revenue totaled \$4.8 million, compared to \$35.9 million of maintenance revenue and \$7.4 million of services revenue for the second quarter in 2008. Changes in foreign currency negatively impacted total revenue by \$2.0 million in the second quarter.

For the six months ended June 30, 2009 total revenue was \$105.3 million compared to \$125.7 million for the six month period in 2008. For the six month period software revenue totaled \$32.3 million compared to \$43.0 million for the six month period in 2008. For the six month period ended June 30, 2009, maintenance revenue totaled \$63.0 million and services revenue totaled \$10.0 million, compared to \$69.0 million of maintenance revenue and \$13.7 million of services revenue for the six month period in 2008. Changes in foreign currency negatively impacted total revenue by \$2.6 million in the six month period.

"Our top line performance continued to be impacted by the global economic downturn and its effect on our key customers particularly in the automotive and heavy manufacturing sectors. I am pleased however that the second quarter overall results were in line with our guidance," said Ashfaq Munshi, interim CEO and President of MSC Software.

"The cost containment measures implemented over the past four quarters have better aligned our cost structure with our revenue performance and these measures resulted in an overall reduction in operating expenses of more than \$20 million when comparing the first six months of 2009 to the same period last year," said Mr. Munshi. "Our expense structure was impacted during Q2 by costs associated with the Symphony transaction of approximately \$800,000. Without these costs our expense structure is in line with our guidance as well."

Revenue By Geography

Total revenue in the Americas for the second quarter and the six months ended June 30, 2009 was \$13.9 million and \$30.7, respectively, compared to \$20.1 million and \$38.7 million for the same periods last year. Total revenue in EMEA for the second quarter and six months ended June 30, 2009 was \$21.0 million and \$39.3 million, respectively, compared to \$24.8 million and \$48.3 million for the same periods last year. Changes in the EURO decreased EMEA revenue by \$3.1 million and \$5.8 million in the second quarter and six month periods of 2009. In the Asia region, revenue for the second quarter and six months ended June 30, 2009 totaled \$16.8 million and \$35.3 million, respectively, compared to \$19.5 million and \$38.7 million for the same periods last year. Changes in the Japanese Yen increased Asia revenue by \$1.1 million and \$3.2 million in the second quarter and six month periods of 2009.

Results of Operations and EPS

Total operating expenses for the second quarter and six months ended June 30, 2009 were \$44.1 million and \$85.7 million, respectively, compared to \$52.5 million and \$106.2 million for the same periods last year. Operating loss for the second quarter and six months ended June 30, 2009 was \$2.6 million and

CIMdata PLM Industry Summary

\$1.1 million, respectively, compared to an operating loss of \$0.3 million and \$4.8 million for the same periods last year. For the second quarter and six months ended June 30, 2009, net loss totaled \$1.6 million and \$1.5 million, respectively, or \$0.04 per share and \$0.03 per share, respectively. This compares to a net income of \$1.0 million or \$0.02 per share in the second quarter last year and a net loss of \$1.2 million or \$0.03 per share in the six month period last year.

Balance Sheet

Cash and investments at June 30, 2009 totaled \$148.2 and deferred revenue stood at \$77.3 million and working capital increased to \$119.4 million.

For additional information about MSC.Software's products and services, please visit www.mssoftware.com.

Important Information for Investors and Stockholders

MSC.Software Corporation will file a proxy statement with the SEC in connection with the proposed merger. **INVESTORS AND STOCKHOLDERS ARE URGED TO READ THE PROXY STATEMENT WHEN IT BECOMES AVAILABLE AND ANY OTHER RELEVANT DOCUMENTS FILED WITH THE SEC BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION.** Investors and stockholders will be able to obtain these documents free of charge at the website maintained by the SEC at www.sec.gov. In addition, documents filed with the SEC by MSC.Software Corporation are available free of charge by contacting Investor Relations by telephone at (714) 444- 8551, or by mail at MSC.Software Corporation, Investor Relations, 2 MacArthur Place Santa Ana, CA 92707 USA, or by going to MSC.Software Corporation's Investor Relations page on its corporate web site at <http://ir.mssoftware.com/>.

This communication shall not constitute an offer to sell or the solicitation of an offer to buy any securities.

MSC.Software Corporation and its directors and executive officers may be deemed to be participants in the solicitation of proxies from the stockholders of MSC.Software Corporation in connection with the merger. Information regarding the interests of these directors and executive officers in the transaction described herein will be set forth the proxy statement described above. Additional information regarding these directors and executive officers is also included in MSC.Software Corporation's proxy statement for its 2009 Annual Meeting of Stockholders, which was filed with the SEC on April 10, 2009. This document is available free of charge at the SEC's web site at www.sec.gov, and from MSC.Software Corporation by contacting Investor Relations by telephone at (714) 444-8551, or by mail at MSC.Software Corporation, Investor Relations, 2 MacArthur Place Santa Ana, CA 92707 USA, or by going to MSC.Software Corporation's Investor Relations page on its corporate web site at <http://ir.mssoftware.com/>.

Cautionary Statement Regarding Forward-Looking Statements

This communication contains forward-looking statements that involve numerous risks and uncertainties. The statements contained in this communication that are not purely historical are forward-looking statements within the meaning of Section 27A of the Securities Act and Section 21E of the Exchange Act, including, without limitation, statements regarding the expected benefits and closing of the proposed merger, the management of the company and the company's expectations, beliefs and intentions. All forward-looking statements included in this document are based on information available

CIMdata PLM Industry Summary

to MSC.Software Corporation on the date hereof. In some cases, you can identify forward-looking statements by terminology such as "may," "can," "will," "should," "could," "expects," "plans," "anticipates," "intends," "believes," "estimates," "predicts," "potential," "targets," "goals," "projects," "outlook," "continue," "preliminary," "guidance," or variations of such words, similar expressions, or the negative of these terms or other comparable terminology. No assurance can be given that any of the events anticipated by the forward-looking statements will transpire or occur, or if any of them do so, what impact they will have on our results of operations or financial condition. Accordingly, actual results may differ materially and adversely from those expressed in any forward-looking statements. Neither MSC.Software Corporation nor any other person can assume responsibility for the accuracy and completeness of forward-looking statements. There are various important factors that could cause actual results to differ materially from those in any such forward-looking statements, many of which are beyond MSC.Software Corporation's control. These factors include: failure to obtain stockholder approval of the proposed merger; failure to obtain, delays in obtaining or adverse conditions contained in any required regulatory or other approvals; failure to consummate or delay in consummating the transaction for other reasons; changes in laws or regulations; and changes in general economic conditions. MSC undertakes no obligation (and expressly disclaims any such obligation) to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise. For additional information concerning factors that could cause actual results to materially differ from those projected herein, please refer to MSC.Software Corporation's most recent Form 10-K, 10-Q and 8-K reports filed with the SEC.

(Financials to follow)

CIMdata PLM Industry Summary

PRELIMINARY
MSC SOFTWARE CORPORATION
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS (UNAUDITED)
(in thousands, except per share data)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2008	2009	2008	2009
Revenue:				
Software	\$ 21,067	\$ 14,891	\$ 43,025	\$ 32,274
Maintenance	35,946	31,959	68,976	62,965
Services	7,429	4,801	13,650	10,027
Total Revenue	64,442	51,651	125,651	105,266
Cost of Revenue:				
Software	2,720	2,207	5,183	4,505
Maintenance and Services	9,473	7,970	19,044	16,219
Total Cost of Revenue	12,193	10,177	24,227	20,724
Gross Profit	52,249	41,474	101,424	84,542
Operating Expenses:				
Research and Development	13,262	11,781	27,628	23,344
Selling and Marketing	23,625	19,098	47,269	35,916
General and Administrative	14,579	12,310	29,765	25,367
Amortization of Intangibles	337	272	673	566
Restructuring Charges	705	623	844	479
Total Operating Expenses	52,508	44,084	106,179	85,672
Operating Loss	(259)	(2,610)	(4,755)	(1,130)
Other (Income) Expense :				
Interest Expense	265	26	543	91
Other (Income) Expense, net	(2,620)	(987)	(3,615)	45
Total Other (Income) Expense, net	(2,355)	(961)	(3,072)	136
Income (Loss) From Continuing Operations Before Provision For Income Taxes	2,096	(1,649)	(1,683)	(1,266)
Provision (Benefit) For Income Taxes	1,065	(39)	(508)	197
Net Income (Loss)	\$ 1,031	\$ (1,610)	\$ (1,175)	\$ (1,463)
Basic and Diluted Earnings (Loss) Per Share	\$ 0.02	\$ (0.04)	\$ (0.03)	\$ (0.03)
Basic Weighted-Average Shares Outstanding	44,963	45,520	44,858	45,466
Diluted Weighted-Average Shares Outstanding	45,512	45,520	44,858	45,466

CIMdata PLM Industry Summary

PRELIMINARY
MSC.SOFTWARE CORPORATION
CONDENSED CONSOLIDATED BALANCE SHEETS (UNAUDITED)
(in thousands, except per share value amounts)

	December 31, 2008	June 30, 2009
ASSETS		
Cash and Investment	\$ 152,554	\$ 148,233
Trade Accounts Receivable, less Allowance for Doubtful Accounts of \$1,375 and \$1,869, respectively	52,861	55,042
Property and Equipment, Net	14,390	11,675
Goodwill, Indefinite Lived & Other Intangibles	183,665	180,269
Other Assets	41,473	44,149
Total Assets	\$ 444,943	\$ 439,368
LIABILITIES AND SHAREHOLDERS' EQUITY		
Deferred Revenue	\$ 75,800	\$ 77,316
Other Liabilities	57,643	50,564
Total Liabilities	133,443	127,880
Net Shareholders' Equity	311,500	311,488
Total Liabilities and Shareholders' Equity	\$ 444,943	\$ 439,368

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

Synopsys Announces Earnings Release Date and Conference Call for Third Quarter Fiscal Year 2009

5 August 2009

Synopsys, Inc. announced it will report results for the third quarter fiscal year 2009 on Wednesday, Aug. 19, 2009, after the market close.

A conference call to review the results will begin at 2 p.m. PT (5 p.m. ET) and will be hosted by Aart de Geus, chairman and chief executive officer, and Brian Beattie, chief financial officer.

Financial and other statistical information to be discussed on this conference call will be available on the corporate website at <http://www.synopsys.com> immediately before the call. A live webcast will also be available on this site. Participants should access the live webcast at least 10 minutes prior to the start of the call. A webcast replay can be accessed on the corporate website beginning Wednesday, Aug. 19, 2009, at approximately 5:30 p.m. PT. The replay will remain available until Synopsys announces its fourth quarter and fiscal year 2009 results in December 2009. In addition, a dial-up replay of the conference call will be available beginning Aug. 19, 2009 at 4:00 p.m. PT, ending on Sept. 2, 2009 at midnight. The replay telephone number is USA (800) 475-6701, and International (320) 365-3844, Access Code: 109824.

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

Nemetschek Maintains Operating Margin at 20 Percent

7 August 2009

Nemetschek AG generated revenues of 65.2 million euros in the first half of 2009. Compared to the strong revenues generated in the same six-month period of the previous year (73.3 million euros), this represents a drop in revenues of 11 percent. Thanks to strict cost discipline, the company managed to keep its operating margin (EBITDA) stable as expected. The EBITDA amounted to 12.9 million euros after 15.3 million euros in the same six months of the previous year, putting the EBITDA margin at 19.8 percent. The net income was 4.7 million euros after 7.0 million euros in the previous year.

Maintenance revenues at previous year's levels

The loss in revenues for the first six months is due to declining revenues from license sales. They fell in the first half-year by 20.9 percent from 37.5 million euros to 29.7 million euros. On the other hand, recurring revenues from maintenance contracts remained stable at 30.6 million euros. Service revenues from consulting and training were 4.7 million euros compared to 4.9 million euros for the same period in the previous year.

Domestic revenues amounted to 27.5 million euros, putting them at the same level as in the previous year (27.4 million euros). Revenue development abroad was negative, however, amounting to 37.8 million euros (previous year: 45.9 million euros). Foreign revenues therefore represented 58 percent of overall revenues.

All segments profitable

All segments in the group were profitable in the first half-year of 2009. The Design segment – comprising software solutions focused on architecture and civil engineering – once again represented the bulk of the group's revenues at 53.1 million euros (previous year: 60.8 million euros). The EBITDA margin was 17.8 percent (previous year: 20.2 percent). The company showed slight growth in the Build and Manage segments. In the Build segment – comprising alphanumerical software products to support the construction process – revenues grew from 6.5 million euros to 6.7 million euros. The EBITDA margin was 36.9 percent (previous year: 27.9 percent). The Manage segment with its solutions for real estate business management saw revenues of 2.0 million euros (after 1.9 million euros in the previous year), the EBITDA margin rose to 14.6 percent (previous year: – 5.8 percent). The Multimedia segment (3D software for visualization and animation) achieved revenues of 3.5 million euros (previous year: 4.1 million euros). The EBITDA margin was 20.9 percent (previous year: 31.5 percent).

Costs significantly reduced

Thanks to strict cost management, the Nemetschek Group was able to make up for a good part of the loss in revenues. Personnel costs for the first half-year remained largely stable at 30.8 million euros (previous year: 30.5 million euros) but they can be expected to fall further in the second half-year as the result of selective personnel measures in individual subsidiaries. Other operating expenses were reduced by 18.6 percent from 24.1 million euros to 19.7 million euros. This is due to several individual measures throughout all of the group companies, including savings in advertising, sales expenditures and external personnel costs. Operating expenses sank by a total of 8.0 percent.

With 4.8 million euros of depreciations – of which 3.6 million euros are amortizations for intangible assets from the allocation of the purchasing price for Graphisoft and Scia– the operating profit (EBIT) was 8.1 million euros (10.4 million euros in the previous year). The net income was 4.7 million euros (previous year: 7.0 million euros). The earnings per share (consolidated shares) were 0.48 euros,

compared to 0.69 euros in the previous year.

Equity ratio at 45 percent

In the first half of 2009 the Nemetschek Group generated cash flow from operating activities of 13.6 million euros (previous year: 16.2 million euros). The cash flow from financing activities was 10.9 million euros (previous year: – 22.0 million euros). This is due to the repayment of 9.6 million euros of loan debt on June 30, 2009. The value for the previous year mainly included repayments of 12.8 million euros as well as dividend payments of 7.0 million euros.

The company's liquid assets stand at 23.4 million euros compared to 20.9 million euros in the same period of the previous year. This puts the company's current net debt at just 16.3 million euros (compared to 26.1 million euros on December 31, 2008). Equity is at 72.1 million euros compared to 67.9 million euros on December 31, 2008. Nemetschek Group's equity ratio is 45 percent.

Drop in number of employees

On June 30, 2009, the Nemetschek Group employed 1,073 people. At the end of 2008 it employed 1,114 people worldwide.

Outlook confirmed

The end of the worldwide economic crisis is not yet in sight and it has also made its mark on the building industry. According to the forecasts updated in June 2009, Euroconstruct, the industry group, expects revenues in the European building industry to drop by 9.9 percent. Euroconstruct expects revenues in Germany to drop by four percent in 2009; according to industry representatives, the various economic packages are only being felt slowly by the building companies. "We do not expect to see a market upturn until the fourth quarter at the earliest," says Ernst Homolka, CEO, Nemetschek AG.

The management, however, still assumes that, with an expected drop in revenues of around 10 percent in fiscal 2009, it will be able to keep the group's operating margin (EBITDA margin) at around 20 percent.

 [Click here to return to Contents](#)

Virage Logic Reports Third Quarter Fiscal 2009 Results

29 July 2009

Virage Logic Corporation reported its financial results for the third fiscal quarter ended June 30, 2009.

Total revenue for the third quarter of fiscal 2009 was \$11.9 million, compared with \$11.0 million for the second quarter and \$15.1 million for the third quarter of fiscal 2008. License revenue for the third quarter of fiscal 2009 was \$10.7 million, compared with \$9.1 million for the prior quarter and \$12.3 million for the same period a year ago. Royalties for the third quarter of fiscal 2009 were \$1.2 million, compared with \$1.9 million for the second quarter and \$2.8 million for the third quarter of fiscal 2008.

As reported under U.S. GAAP, net loss for the third quarter of fiscal 2009 was \$1.9 million, or (\$0.08) per share, compared with a net loss of \$26.3 million or (\$1.15) per share for the second quarter of fiscal 2009 and a net loss of \$1.1 million, or (\$0.05) per share for the third quarter of fiscal 2008.

Excluding the effects of FAS123R expenses, acquisition related expenses, restructuring charges and amortization of intangibles, the Company would have reported a net loss of \$0.7 million, or (\$0.03) per share. The reconciliation of GAAP to Non-GAAP financial results includes \$0.5 million of stock-based compensation expense, \$0.2 million of amortization of intangibles and a net tax effect of \$0.5 million

CIMdata PLM Industry Summary

for a total of \$1.2 million.

Virage Logic President and CEO, Dr. Alex Shubat said, "In our third fiscal quarter, we grew our license revenues by 18% over the second fiscal quarter 2009. This is encouraging in light of the continued challenging global economic environment. As anticipated, royalty revenue came in below the previous quarter due to low foundry wafer shipments occurring in the first calendar quarter of 2009.

"Over two years ago, we embarked on a transformation process which included several operating and product initiatives. We are in the final stages of altering our engineering and marketing organizations to accommodate the company's transition to a predominately standard product versus custom product IP provider. This transition will result in a highly scalable business model for Virage Logic, a model that can accommodate increased creation and/or acquisition of new IP products with a minimum of additional operating costs. Key initiatives that we made particularly significant progress against in the third quarter include:

Broadening our product portfolio. Through our ongoing R&D efforts and inorganic growth initiatives, we have significantly increased our product offerings. In the third fiscal quarter, we reaped the benefits of this strategy with our Intelli™ DDR and Intelli™ LPDDR memory controller product lines which made a strong contribution to our overall bookings in the quarter. These products offer a full range of both high performance and low power solutions and are being adopted by FPGA and SoC developers worldwide.

Being first-to-market with next generation advanced technology products. As a result of our early leadership at 40nm, we believe our SiWare™ Memory and SiWare™ Logic products offer the industry's broadest portfolio of silicon proven IP on this technology node. As a result, more than ten customers have adopted our 40nm products and our 40nm royalty revenues are growing. During the quarter, we announced availability of our AEON® non-volatile embedded memory on TSMC's 65nm Low Power (LP) process, making it the industry's first multi-time programmable (MTP) logic NVM solution that is commercially available on a 65nm process.

During this quarter, we have seen a strong increase in our sales pipeline in terms of both dollar value and individual deal size. This increase was the result of both internal and external factors. Internally, we saw success in activity as a result of the company's execution on our stated initiatives, particularly with regard to our new product families. Externally, the movement of the large semiconductor IDMs toward a 'fabless' or 'fab-lite' business model is a positive factor and plays to our strengths.

This increase in opportunities resulted in a very strong bookings for the company during the third quarter, as well as in the first four weeks of the fourth quarter. As a result, our license backlog moved up significantly."

Dr. Shubat concluded, "With the positive trend affecting our business the Company should be able to post sequential quarterly license growth in the fourth fiscal quarter. As foundry utilization continues to recover, royalty performance for the fourth quarter, which is based on June ending quarter wafer shipments, should also improve."

"For the fourth quarter fiscal 2009, we are projecting revenues of \$13.75 million to \$14.75 million and non-GAAP EPS results of \$0.01 to \$0.04 per share. The Company expects to realize, before tax, approximately \$3.0 million to \$3.2 million in non-GAAP adjustments comprised primarily of FAS123R stock compensation and acquisition-related expenses."

Although this news release will be available on the Company's website, the Company disclaims any

CIMdata PLM Industry Summary

duty or intention to update these or any other forward-looking statements.

Use of Non-GAAP Information

We believe the financial figures we include that are not presented in accordance with GAAP assist investors in understanding our business and operating results. This information is intended to provide investors with useful supplemental data regarding the underlying economics of our business operations because operating results presented under GAAP may include charges that are nonrecurring or not necessarily relevant to ongoing operations, or are difficult to forecast for future periods. The Company's management evaluates and makes operating decisions about its business operations primarily based on revenue and the core costs of those business operations. Management believes that goodwill impairment charges, valuation allowance on deferred tax assets, restructuring charges, acquisition-related charges and stock-based compensation are not part of its core 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 involved in the adjustment from GAAP to non-GAAP presentation in this earnings release are goodwill impairment charges, valuation allowance on deferred tax assets, restructuring charges, acquisition-related charges, and stock-based compensation that are included in cost of revenues, research and development, general and administrative and sales and marketing expenses. To determine our non-GAAP tax provision, the Company recalculates tax based on non-GAAP income before taxes and adjusts accordingly.

For each such non-GAAP measure, the adjustment provides management with information about the Company's underlying operating performance that enables a more meaningful comparison of our finance results in different reporting periods. For example, since the Company does not acquire businesses on a predictable cycle, management excludes acquisition-related charges in order to provide a more consistent and meaningful evaluation of the Company's operating expenses. Management also excludes goodwill impairment, valuation allowance on deferred tax assets and restructuring charges as these are non-recurring charges which are not expected to occur on a regular basis. Management also excludes the impact of stock-based compensation to help it compare current period operating expenses against the operating expenses for prior periods. In addition, the availability of non-GAAP information helps management track actual performance relative to financial targets. This information also helps investors compare the Company's performance with other companies in the industry, which use similar financial measures to supplement their 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 which types of charges should be excluded from the non-GAAP financial information. Management believes that providing this non-GAAP financial information, in addition to GAAP information, facilitates consistent comparison of the Company's financial performance over time. The Company has historically provided non-GAAP information to the investment community, not as an alternative but as an important supplement to GAAP information, to enable investors to evaluate the Company's core operating performance in the way that management does.

Our non-GAAP financial measures are not intended to be performance measures that should be regarded as alternatives to, or more meaningful than, our GAAP financial measures. Non-GAAP financial measures have limitations as they do not include all items of income and expense that affect our operations, and accordingly should always be considered as supplemental to our financial results presented in accordance with GAAP.

Conference Call

CIMdata PLM Industry Summary

Virage Logic's management will hold a teleconference on third quarter fiscal 2009 results at 1:30 p.m. PACIFIC / 4:30 p.m. EASTERN today, July 29, 2009. A replay of the call will be available at (800) 406-7325 (domestic) or (303) 590-3030 (international), access number 4117030 through August 3, 2009; and the webcast can be accessed at <http://www.viragelogic.com> for 30 days.

 [Click here to return to Contents](#)

Implementation Investments

America's Oldest Hat Maker Bollman to Implement BlueCherry Enterprise Software

4 August 2009

Computer Generated Solutions Inc. (CGS) announces that Bollman Hat Company (<http://www.bollmanhats.com>) has selected CGS BlueCherry® to replace its legacy business software system. BlueCherry promises to provide Bollman with the enterprise-wide information platform needed to support continued global growth and achieve previously unattainable levels of operational efficiencies in multiple office locations across the United States, the United Kingdom, Australia and China, making the implementation a truly global rollout. By providing a worldwide view of business operations, the new system will enable Bollman to gain visibility into business processes, integrate and collaborate with global suppliers and customers, and increase overall productivity and competitiveness.

"Sharing accurate and relevant information across our business and with partners is essential to accomplishing our key corporate strategies," noted Dave Huber, Bollman chief financial and operations officer. "Our old systems simply could not provide the platform and connectivity we need as we move forward. In CGS, we found the industry expertise, product capabilities, commitment to results and corporate longevity we were seeking to support our current and future growth around the world."

Key among the integrated BlueCherry software modules that will be implemented over the next six months are enterprise resource planning (ERP), product lifecycle management (PLM), electronic data exchange (EDI), third-party logistics (3PL) integration, and financial management. These and other BlueCherry software capabilities will replace current 'islands' of automation and data with a single, integrated business solution. The resulting easy and immediate access to information will enable Bollman teams to make better informed and timelier business decisions at every step of the concept-to-delivery product lifecycle. This integration and access also extends to business partners, including customers, suppliers, logistics and distribution providers.

Founded in 1868, Bollman Hat Company is America's oldest and owner of the Bailey™ Country Gentleman™, Eddy Bros.™, Betmar™, Plaza Suite™, Helen Kaminski™, and Ignite™ brands. Bollman is also the exclusive licensee for Kangol™ and Timberland™ headwear. The employee-owned company maintains offices in four continents and markets a wide range of headwear and other accessories in over 50 countries.

About CGS

For twenty-five years, CGS has enabled global enterprises, regional companies and government agencies to drive groundbreaking business performance through technology. CGS delivers a wide array of proprietary and third-party business applications, technology and business services, outsourcing solutions and learning & communications platforms. Headquartered in New York City, CGS maintains a worldwide presence with 20 offices in North America, Europe and Asia. For more information please

visit <http://www.cgsinc.com>.



[Click here to return to Contents](#)

Analist Group Implements D-Cubed 2D DCM from Siemens PLM Software with New Portable AEC Application

3 August 2009

[Siemens PLM Software](#) and Analist Group SrL., a company specializing in the design and implementation of software for the construction industry, announced that Siemens PLM Software's [D-Cubed™](#) 2D Dimensional Constraint Manager (2D DCM) component has been integrated and released in 3DRoom, a software application from Analist Group that enables the rapid creation of digital AEC (architecture, engineering and construction) models.

Working with a version of 3DRoom for handheld computers that uses measurements from existing buildings surveyed by laser rangefinders, the 2D DCM supports the accurate computation of floor plans, the relations between room elements, and the connections between rooms. Data can then be transferred from the handheld to the desktop version of 3DRoom, where the software interfaces with Analist's ArchiPlan3D product, as well as other applications, to create architectural plans, 3D model renderings, bills of material, building elevations and sections.

“After a careful and thorough evaluation, we selected the D-Cubed 2D DCM due to its superior functionality, the high degree of value it creates for our customers, and our confidence in Siemens PLM Software as a reliable long-term supplier,” said Antonio Iannuzzi, CEO of Analist Group. “In addition, our development group was delighted with its ease of integration into our design environment, enabling us to bring 3DRoom to market within just a few weeks of licensing the 2D DCM.”

The integration of the 2D DCM into 3DRoom is the newest example of the growing number of [AEC, plant and structural design applications](#) that are using the D-Cubed components. DCM based geometric constraint solving is the foundation for many of the latest versions of a variety of design technologies used in both mechanical and architectural products, such as building information modeling (BIM), history based modeling and direct modeling.

“The adoption of the 2D DCM by Analist reinforces the importance of our [PLM Components](#) solutions to specialized architectural CAD applications like 3DRoom, in addition to major AEC product lines,” said Joan Hirsch, vice president of Product Design Solutions, Siemens PLM Software. “We look forward to working with Analist as it pioneers the use of the 2D DCM with portable architectural CAD applications for the surveying industry.”

About Analist Group

Analist Group provides software and services for the construction industry, in a wide range of areas including land survey/topography, facilities management, environment/energy and architectural design. Based in Mercogliano, Italy, the company has been serving customers for more than ten years with applications that combine advanced technology with ease of use. For more information, visit www.analistgroup.it.

About PLM Components: Parasolid and D-Cubed

PLM Components are software tools that support innovation and promote interoperability in CAD, CAM, CAE and PLM applications. Siemens PLM Software develops these components, uses them

CIMdata PLM Industry Summary

throughout its own applications and licenses them to independent software vendors and end-user organizations. PLM Components include the [Parasolid®](#) and D-Cubed™ software products, widely used technologies that provide 3D part and assembly modeling, editing and interoperability, 2D/3D parametric sketching, motion simulation, collision detection, clearance measurement and visualization functionality. Applications include mechanical CAD, CAM, CAE, mold design, sheet metal, AEC, GIS, structural, plant and ship design, CMM, reverse engineering and sales configuration. For more information, please visit www.siemens.com/plm/open.

 [Click here to return to Contents](#)

Delcam's PowerSHAPE Cuts Design Times by 80%

7 August 2009

Adopting computer-aided design with Delcam's PowerSHAPE software has allowed Luiz Delfino Favero, owner of a flying-trike company in Sao Paolo called Trike Ícaros, to reduce his design times for each model by up to 80%. The software has also helped to give increased consistency in production, making it possible for the company to meet the stricter standards imposed by Brazil's National Agency of Civil Aviation following a number of accidents with amateur-built models.

Mr. Favero was still a boy when he saw a Delta Wing on television for the very first time. That was the beginning of a passion that continued for over 20 years. As he grew older, married and had his two children, he began to feel guilty about not being able to involve his family in his hobby. He decided to develop a motorised Delta Wing with a second seat. After some years, he received news that a French team had produced his dream and given it the name "Trike". Mr. Favero was able to adapt this design to produce a model for himself. Soon after, he began to create more designs for his close friends and colleagues, until he was able to transform his hobby into a successful business.

The initial reason for looking into computer-aided design was mainly the pressure imposed by the new standards, in particular a requirement to submit formal designs for approval. "Two years ago, all our Trike models were designed by hand, using paper and ink. That had been my way of working for more than 18 years," said Mr. Favero. "It met my needs, but not those of the standards." After visiting Delcam's representative in Brazil, Seacam, at an exhibition, he could see many other improvements and benefits that he could add to his business. Not least of these was the reverse engineering service offered by Seacam based on Delcam's CopyCAD Pro software. This would enable the designs of existing parts to be captured for future use in refurbishment or in creating new models.

When asked why he had chosen the Delcam software, Mr. Favero was absolutely clear: "I needed software for complex shapes and the only one that could produce exactly what I wanted was PowerSHAPE." The support given by the Seacam team was another important factor. "We get quick answers to any questions, whenever we need them," he commented. "We have built up a good relationship."

With the use of the Delcam software, the designs reached a level of precision never achieved before. In addition, "the time we save has brought gains to all areas of the company," according to Mr. Favero.

One extra benefit has been in the creation of operation, maintenance and parts manuals, which are also required by the new standards. Trike Ícaros can now prepare its documentation with greater speed, precision and quality, including operation manuals, with pictures rendered in PowerSHAPE, and maintenance and parts manuals with exploded diagrams. The quality of the illustrations now in the manuals means that anyone, whether an expert or a beginner, is able to understand all the instructions

for assembly and use with relative ease.

[!\[\]\(43208d6b203cbb8d2e833386ceb48fa5_img.jpg\) Click here to return to Contents](#)

HiSilicon Adopts Mentor Graphics Veloce Hardware Emulator to Accelerate Time-To-Market for their Next-Gen SoC Chip Sets

5 August 2009

Mentor Graphics Corp. announced that HiSilicon, the ASIC design centre for Huawei Technologies and provider of solutions for communication networks and digital media, has adopted Mentor's Veloce® for the complete system-level verification of its next-generation SoC chips, including wireless chip sets. HiSilicon chose Veloce due to its superior debug capabilities, performance, accuracy, and extensive portfolio of iSolve™ vertical market in-circuit emulation (ICE) solutions, for the verification of wireless, networking, and multimedia designs.

"HiSilicon faces significant challenges in meeting time-to-market goals, performance requirements, and reducing the risks involved in the integration of our advanced SoC's for communication networks and multimedia applications," stated Teresa He, vice president semiconductor line, HiSilicon Technologies Co. Ltd. "The use of Veloce for the hardware emulation of our SoCs, and the support we have received from Mentor, will play a major role in achieving these goals, and producing high-quality products for our customers."

Veloce is the industry's fastest dual-mode accelerator/emulator, providing MHz performance for both transaction-based verification and traditional in-circuit emulation (ICE). With an extensive portfolio of vertical market solutions, the Veloce product is the platform of choice for wireless, networking, multimedia, and embedded systems applications.

"We have worked closely with HiSilicon to provide the best possible emulation solution that meets HiSilicon's needs and addresses the challenges they face in verifying their SoC designs," stated Eric Selosse, [Mentor](#) Emulation Division (MED) vice president and general manager. "We are delighted that HiSilicon benefits from our latest generation hardware emulation solutions, and that they have adopted Veloce for the verification of their latest communications and digital media products."

[!\[\]\(940b80749e11ee15a3ed98b9c630edc4_img.jpg\) Click here to return to Contents](#)

Magma Quartz DRC and Quartz LVS Support TSMC's New Unified Physical Verification Format

29 July 2009

Magma® Design Automation Inc. announced that Quartz™ DRC and [Quartz](#) LVS now support TSMC's interoperable design rule check (iDRC) and layout-versus-schematic (iLVS). With the two unified electronic design automation (EDA) data formats and scalable Quartz physical verification solution, [Magma](#) and TSMC are working to make their mutual customers' adoption of TSMC's 40-nanometer (nm) process technology faster, easier and less costly.

"TSMC has taken a leadership role in defining an interoperable, common language for all DRC and LVS tools," said ST Juang, senior director of Design Infrastructure Marketing at TSMC. "The unified iDRC and iLVS files eliminate the need to develop and maintain multiple custom runsets, improve data accuracy and consistency, and enables designers to choose the EDA tool that best meets their requirements. Ultimately, our customers can adopt our advanced process technologies early for their

designs."

Quartz DRC and Quartz LVS are architected to process integrated circuit (IC) designs of any size, at any technology node, in the least amount of time. Magma's is the first truly scalable physical verification solution, able to provide turnaround time that is up to an order of magnitude faster than existing solutions by leveraging existing compute resources. The Quartz tools are fully compatible with third-party IC implementation flows and can read file formats used by traditional physical verification tools.

"The scalable architecture of Quartz DRC and Quartz LVS was designed specifically to provide fast, efficient physical verification of large, complex designs," said Anirudh Devgan, general manager of Magma's Custom Design Business Unit. "That scalability and native support for the Tcl procedural language used by the TSMC iDRC and iLVS formats make Quartz DRC and Quartz LVS the ideal solution for designs targeting TSMC's processes."

 [Click here to return to Contents](#)

Nethra Enlists Cadence Incisive Palladium Accelerator/Emulator To Speed Development of Advanced HD Image Processor

3 August 2009

Cadence Design Systems, Inc. announced that Nethra Imaging, Inc. reduced the development time of a high-definition (HD) image processor design using the [Cadence® Incisive® Palladium® II Accelerator/Emulator](#). Productivity improvements that Nethra experienced with the Palladium product enabled the company to boost design quality and confidence while meeting an ambitious development deadline.

The adoption and rapid deployment of the Palladium II system for the HD image processor ASIC containing more than 25 million gates enabled Nethra's engineering team to accelerate system-level verification for a leading-edge camera application. According to Nethra, system-level and subsystem verification was able to achieve 507KHz to 1.3MHz, depending on runtime environments and conditions. With simulation only, verification ran at about 30Hz; accelerated with the Palladium system, Nethra achieved an increase in acceleration 4 orders higher in magnitude at the full chip level.

"The overall productivity gained from Palladium II has dramatically improved our ability to validate our next-generation HD image processor," said Kasturi Rangam, Nethra's director of engineering. "The impact of the Palladium II technology was immediate. We went from waiting seven days to process just two HD frames to processing over 120 frames in an hour."

In addition, the Palladium system's productivity features, such as runtime checkers, enabled Nethra to pinpoint design issues quickly. Nethra uncovered several artifacts that would have been harder to find without running hundreds of HD frames with system-level stimulus, namely SPI, DDR3, SATA and 10G Ethernet. The Palladium system's fast and deterministic compiler, along with the integrated FullVision debugger, were vital for easy bring-up, use and debug.

"We chose the Palladium system for its superior performance, which allowed us to meet our aggressive development schedule and deliver the highest quality HD image processing chip," said Krishnan Iyer, Nethra's vice president of engineering. "In addition, the tight support from the Cadence team made the deployment process flawless."

"Cadence system verification solutions and technologies continue to provide dependability to successful companies such as Nethra," said Ran Avinun, marketing group director of Cadence system design and

CIMdata PLM Industry Summary

verification. “The Palladium system again demonstrated its value through verification acceleration that helped increase productivity, quality and overall confidence.”

About Nethra

Nethra Imaging is a fabless semiconductor company focused on delivering imaging and video solutions for a wide range of applications in the broadcast, medical, surveillance and military markets. The company uses proprietary algorithms to build flexible, fully programmable image processors and related products. Located in Santa Clara, California, Nethra is privately-held and since its inception in 2003, has developed scalable image processing solutions for a variety of video and multimedia applications. For more information, visit www.nethra.us.com.

 [Click here to return to Contents](#)

Penn State Has Adopted AxSTREAM Software to Teach Turbomachinery Design

4 August 2009

SoftInWay Inc. and the Pennsylvania State University have signed an agreement about the incorporation of the educational version of AxSTREAM software for turbomachinery flow path design, optimization and analysis into the University’s curriculum.

According to this software license agreement, students from the Penn State Engineering Department will be able to learn the basics of turbomachinery flow path design using AxSTREAM. The software includes modules for preliminary design, 1D/2D analysis, design and multidisciplinary optimization of flow path, profiling, 3D blade stacking and 3D FEA/CFD analysis. AxSTREAM Educational Version supports four types of machines: axial turbine, axial compressor, radial turbine and radial compressor.

As a result of this AxSTREAM course, the Penn State students will gain a practical understanding of the design and optimization of axial/radial turbomachinery that will become a good educational background and raise their competitiveness in the engineering job market.

Today AxSTREAM Educational Version is successfully used by the teaching community worldwide. Only in the first part of 2009 three universities were granted access to the educational suite: Tsinghua University (China), Namik Kemal University (Turkey) and Admiral Makarov National University of Shipbuilding (Ukraine).

“We are honored to partner with the Pennsylvania State University, as it is one of the world's leading universities in turbomachinery design, widely-known for its College of Engineering,” – stated Leonid Moroz, President and CEO of SoftInWay Inc. – “Our relationship with Penn State is critical for both parties, as we firmly believe that AxSTREAM will add depth to the turbomachinery teaching process and help students develop the skills they will need for rewarding engineering careers.”

Dr. Horacio Perez-Blanco, Professor of Mechanical Engineering who has more than 30 years of teaching experience, commented upon the adoption of AxSTREAM: “We are pleased to announce our agreement to employ AxSTREAM for teaching Gas Turbines and Turbomachinery during the academic year F09-SP10, as this software covers the advanced design aspects that other courses don’t. From my expertise, after the students have completed hand calculations for one stage, it is ideal for teaching multiple stage design, as meanline analysis is the appropriate introductory description to the topic, and AxSTREAM produces meanline and streamline analysis of axial and radial turbomachines, given suitable boundary conditions. Besides, instruction of 3D aspects of design with the sole aid of the blackboard and projector is a vexing endeavor, requiring much visualization and adoption of hypothesis concerning the flow

CIMdata PLM Industry Summary

behavior, while AxSTREAM allows ready visualization and modification of the spanwise shape distribution. We project that students will gain a much better understanding of 3D considerations using the visual and analytical tools provided by SoftInWay.”

AxSTREAM Educational Version is available for purchase on a yearly or quarterly license version through SoftInWay website <http://www.softinway.com/education/axstream-educational-version.asp>.

 [Click here to return to Contents](#)

Pepsi-Cola Enhances Reliability of Machinery with Dyadem Software

29 July 2009

[Dyadem](#) announced that Pepsi-Cola Venezuela C.A., a joint venture between Empresas Polar and Pepsico Inc, is using Dyadem software in its Venezuelan operations to improve reliability in the company’s beverage manufacturing machinery and to prevent failures in the development of its system processes. Pepsi-Cola Venezuela, C.A. ([“Pepsi-Cola”](#)) has selected Dyadem’s FTA-Pro, a software solution that analyzes the potential for failure from the top down and identifies all the possible ways a failure can occur within a system. Empresas Polar is one of the country’s largest producers of both food and beverages.

Dyadem’s FTA-Pro software solution uses the Fault Tree Analysis (FTA) methodology to determine the reliability of production equipment and can predict when and where a failure will occur. FTA-Pro facilitates compliance with safety and regulatory requirements, allowing companies to reduce design defects, product recalls and production downtime. The result is an increased ability to produce safe, reliable, high quality products. Dyadem’s FTA-Pro serves as an effective early warning system that allows a company to make proactive decisions when failures are predicted. This is an essential function for Pepsi-Cola due to the fact that it can take up to a year to import new machine parts to Venezuela. Dyadem’s FTA-Pro identifies the potential areas where a breakdown will occur, and gives Pepsi-Cola a warning to begin the ordering process for replacement parts.

With FTA-Pro serving as Pepsi-Cola’s reliability solution, the company has realized a user-friendly oversight system. Dyadem’s FTA-Pro is being used to improve Pepsi-Cola’s maintenance program and is helping the company personnel understand the contributing factors to a system failure while preventing future occurrences.

"Our machinery is the latest in technology so when a breakdown occurs it could take up to a year to get certain parts replaced," said Daniel Boos, Quality Assurance Manager, Pepsi-Cola. "With Dyadem’s FTA-Pro we are now able to identify potential failures well in advance. This gives us time to improve the reliability of the machinery and it also helps us avoid the high costs and the wasted time associated with machinery breakdowns. Dyadem’s FTA-Pro has served as a reliable tool that is easy to use and that enriches our continuous improvement program."

Prior to implementing Dyadem technology, Pepsi-Cola was relying on a manual assessment process that was both unreliable and time intensive. The implementation of FTA-Pro serves as a troubleshooting mechanism that can also determine the root cause of potential problems. Failures that would otherwise go unnoticed are now much more likely to be detected. In addition, implementing the FTA methodology can identify the underlying causes leading to the potential risks, measure the contributing factors, and ultimately prevent their recurrence. Since deploying Dyadem’s software solution, Pepsi-Cola is expected to increase productivity operating in a manner that is more proactive instead of reactive.

CIMdata PLM Industry Summary

"Pepsi-Cola is a brand name worldwide, and an important contributor to the Venezuelan economy," said Kevin North, President and CEO of Dyadem. "Not surprisingly, Pepsi-Cola Venezuela is using cutting-edge technologies to ensure that it meets the demands of its customers. Dyadem's Quality Risk Management solutions give food and beverage companies the ability to operate their machinery based on known quality, reliability and performance data and to make proactive decisions before systems are compromised."

About Empresas Polar

Founded as a small brewery in 1941, Empresas Polar is one of Venezuela's largest private firms, serving over 250,000 customers directly. Its Polar beer owns some 70% of the country's beer market. Polar also manufactures and distributes non-alcoholic beverages that include PepsiCo brands, as well as corn meal and corn oil, pasta, and seafood. Other product lines include animal feed, canned food, and cleaning products. For more information, visit <http://www.empresas-polar.com>

 [Click here to return to Contents](#)

Rockchip Collaborates with Synopsys and Chartered to Achieve First-Pass Silicon Success

3 August 2009

Fuzhou Rockchip Electronics Company, Ltd., Synopsys, Inc. and Chartered Semiconductor Manufacturing Ltd. announced that Rockchip has achieved first-time silicon success on its next-generation multimedia system-on-a-chip (SoC), using a combination of Synopsys' tools, intellectual property (IP) and services with Chartered's 65-nanometer (nm) manufacturing technology. The RK 28 multimedia SoC, Rockchip's first mass-production 65nm chip designed in China and targeted primarily for the China market, is an application processor for mobile handheld devices. The RK28 chip was designed with Synopsys' full RTL-to-GDSII flow using best-in-class technology from the Galaxy™ Implementation and Discovery™ Verification Platforms, as well as DesignWare® IP, and implemented in Chartered's advanced low-power (65nm LP) process.

"The mobile applications served by our customers require chips that can meet stringent low-power specifications without compromising performance, and our multimedia RK28 SoC delivers on both fronts," said Feng Chen, chief marketing officer of Rockchip. "Our EDA and manufacturing partners played key roles in the success of our program. Our ability to reach design closure within our market window then rapidly move from tapeout to production silicon validates the choices we made with [Synopsys](#) and Chartered."

Since the 65nm RK28 represented Rockchip's first design at a new technology node, production-proven technology and knowledge sharing among the parties were essential to project success. The design took advantage of Synopsys' IC Compiler with Zroute technology to exceed its 500MHz performance target, while employing advanced low-power design techniques such as multi-voltage and power gating to reduce power consumption. The production-proven VMM verification methodology and VCS™ functional verification solution were used to verify Rockchip's design. The RK28 chip also integrates silicon-proven Synopsys DesignWare IP, including USB 2.0 PHY, USB HS OTG Controller and SD/MMC Host Controller. Design consultants from Synopsys Professional Services worked closely with Rockchip's engineers throughout the project, merging critical skills and expertise to mitigate project risks and address schedule pressures. The implementation of the design in Chartered's 65nm LP process enabled the chip to achieve target power, performance and area goals with first silicon, and quickly ramp to production volume.

CIMdata PLM Industry Summary

"At Chartered, we understand our customers need technology and solutions with low risk and high yield to speed time to market, and we are pleased to see our collaboration with Rockchip and Synopsys achieve first-pass silicon success," said Dr. Liang-Choo "LC" Hsia, senior vice president of technology development at Chartered. "The Rockchip-Synopsys-Chartered collaboration demonstrates how a strong foundation can support companies on the leading edge of design, especially those in the consumer entertainment and mobile applications."

"Rockchip joins a growing list of innovative chip developers that are taking advantage of Synopsys' broad portfolio of tools, IP and services to accomplish their aggressive design goals with efficiency," said John Chilton, senior vice president of marketing and strategic development at Synopsys. "Our collaboration with Rockchip and Chartered demonstrates our commitment to serve customers in China and the rest of the world with solutions that accelerate tapeout and enhance manufacturability."

About Rockchip

Founded in 2001, Fuzhou Rockchip Electronics Co. Ltd is a professional Integrated Circuit (IC) Design company. Rockchip specializes in digital audio and digital video, providing customers with total solutions that range from chipsets to system SOC software. Rockchip excels in high-end chipsets for MP3 applications, and its customers include a number of well-known domestic and international manufacturers of portable MP3/MP4/PMP players, mobile handsets and electronic tutorial products. For more information about Rockchip, please visit <http://en.rock-chips.com>.

About Chartered

Chartered Semiconductor Manufacturing Ltd. offers technologies down to 40/45 nanometer (nm), enabling today's system-on-chip designs. In Singapore, the company owns or has an interest in six fabrication facilities, including a 300mm fabrication facility and five 200mm fabrication facilities. Information about Chartered can be found at <http://www.charteredsemi.com>.

 [Click here to return to Contents](#)

Toshiba International Corporation Selects PARTsolutions to Launch First Online 3D Parts Catalog

4 August 2009

PARTsolutions, LLC, a global provider of 3D part catalogs for manufacturers and enterprises, announced that **Toshiba International Corporation**, a world leader in the design and manufacture of motors, adjustable speed drives, motor controls and other power electronics products, has launched an online parts catalog for its low voltage motor product line. The digital library of 2D and 3D CAD Toshiba-engineered products streamlines the discovery, download and purchase processes for Toshiba customers.

By initially web-enabling its general purpose low voltage motor product line including its EQPIII Premium Efficiency Series, Explosion Proof and EPACT Efficiency Series products, Toshiba is enabling its customers to configure and download high quality product data in CAD-native format. By implementing **PARTcatalog**[™] from PARTsolutions, Toshiba is saving valuable resources by eliminating the time-intensive process of creating, migrating and translating catalog content. PARTcatalog also increases Toshiba's ability to proactively deliver sales and support information to its customers.

"Supplying catalogs in paper format was no longer meeting the needs of our customers," said Jay Bugbee, Manager, Motor Business Unit of Toshiba. "Providing the CAD-native format our customers

CIMdata PLM Industry Summary

need not only saves them time and resources by simplifying a complicated process, it also keeps us at the forefront of technology in all aspects of our product and its delivery."

PARTsolutions will provide Toshiba products digitally in various online marketplaces, including the Autodesk® Manufacturing Supplier Content Center, Machine Design® Magazine CAD Library and various CAD Communities to increase awareness and sales of its products. To further broaden visibility of Toshiba products to new prospects worldwide, PARTsolutions will also make them available through its PARTenterprise™ solution, which serves major enterprise customers like Boeing, Airbus, Volkswagen, Audi and hundreds of others.

"In today's competitive business environment, more and more manufacturers are leveraging PARTsolutions' innovative technologies for 3D parts catalogs to increase sales," said Rob Zesch, President of PARTsolutions. "By leveraging PARTsolutions, Toshiba Motors is also taking customer service one step further by reducing the amount of CAD support needed and by automating their catalog."

The **Toshiba Motors online catalog** is live now and will continue to grow in size and scope throughout the next several months. For more information, visit: <http://www.toshiba.com/ind>.

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 and neutral CAD and graphics formats to meet the needs of the multi-CAD supply chain. The PARTsolutions product suite maximizes support of reuse and standardization initiatives to deliver measurable business growth through maximizing standard part reuse to get products to market faster with reduced cost. Information about PARTsolutions can be found at <http://www.partsolutions.com>.

 [Click here to return to Contents](#)

VISTAGY'S FiberSIM® Software Helps Cut Time in Half to Design and Produce Diffuser for ING Renault F1 Team's R29 Race Car

6 August 2009

[VISTAGY, Inc.](#) announced that ING Renault F1 Team was able to reduce the time it took to design and manufacture a composite diffuser for its R29 race car from 12 weeks to six weeks using FiberSIM® composites software as part of the project. As a result, ING Renault Team was able to get the new diffuser on the track two races sooner than would have been possible without FiberSIM, dramatically enhancing its race competitiveness.

The so-called "double diffuser" was used to great effect by the Brawn GP, Toyota and Williams teams in the first two rounds of the 2009 Formula One season. However, ambiguity in the regulations meant many teams felt the double diffuser was not permissible under the 2009 regulations. Renault F1 was one of four teams to appeal its use, an appeal that was denied by the governing Fédération Internationale de l'Automobile (FIA).

CIMdata PLM Industry Summary

Like many other teams, Renault F1 Team had been working on its own version of the large "double diffuser" floor, which smoothly channels air under and out of the back of the car, increasing downforce, lateral grip and overall performance. Once the FIA issued the ruling allowing the use of the new diffuser, FiberSIM helped Renault F1 Team quickly implement it.

ING Renault F1 Team has used FiberSIM for the last seven seasons to design and manufacture all composite parts, including the chassis, gearbox, floor, side pods and wing main planes. The team reported time-savings of 20-30 percent for the gearbox on the R29, but the 50 percent reduction in time it took to design and manufacture the diffuser, which was comprised of over 100 plies of carbon fiber, set a new standard for efficiently developing composite parts at ING Renault F1 Team.

"We worked with an outside supplier and asked if they'd like electronic templates generated by FiberSIM for manufacturing the diffuser," said Ian Goddard, senior CAE engineer for ING Renault F1 Team. "This provided the supplier with better accuracy than they were used to. In fact, the quality of manufacturing data was better than anything they've ever had.

"With ply books, we normally expect some ambiguity, but by using FiberSIM we are able to manufacture the car just as it is designed. That makes a big difference in the 16-week period leading up to the season, but it is even more critical during the season when a part needs to be produced and shipped in time for the next race, as was the case with the diffuser."

The ING Renault F1 Team reported that the 50 percent savings experienced on the first double diffuser design, reducing the composite laminate design time from twelve days to six days, was bettered again on the next iteration. The subsequent double diffuser, an evolutionary design concept, took just three days compared to around nine days for previous developments.

"There's a constant battle in F1 to find ways to design and manufacture parts better and faster," said Mr. Goddard. "Our experience with FiberSIM on the development of the composite diffuser once again demonstrated just how critical it is to our efforts to meet our deadlines and put the best car possible on the starting grid."

About ING Renault F1 Team

The Renault F1 Team was born in 2002 with a single purpose: winning the FIA Formula One World Championship with a 100% Renault car. Drawing on a heritage of motorsport innovation that stretches back to Renault's first Formula 1 race in 1977, and includes six world constructors' championships during the 1990s when Renault supplied V10 engines to front-running F1 competitors, the team steadily grew in competitiveness thanks to a blend of performance, reliability and technology reinforced by the engineering expertise of the Renault Group. The team reached the pinnacle of performance during the 2005 and 2006 seasons, winning the drivers' and constructors' championships in both seasons in an historic double-double achievement.

 [Click here to return to Contents](#)

West-ward Pharmaceutical to Manage Quality Systems with "Pilgrim On-Demand"

3 August 2009

Pilgrim Software, Inc. announced that West-ward Pharmaceutical Corp., a US-based manufacturer and marketer of generic prescription products, will adopt [Pilgrim's On-Demand](#) "SaaS" delivery for its [SmartSolve](#)[®] products.

CIMdata PLM Industry Summary

West-ward Pharmaceutical has standardized its quality systems using Pilgrim's solutions for [document control](#), [internal and external audit management](#), [CAPA management](#) and [employee training and certification management](#). These key automated systems will be hosted by [Pilgrim's SAS 70-certified on-demand platform](#), providing West-ward with a distinct competitive advantage. Compared to traditional software implementation models, Pilgrim On-Demand involves a lower initial investment cost, reduced overhead, a high degree of scalability, increased accessibility, improved collaborative productivity, easier implementation, and improved security with optimal performance.

“We are constantly looking at ways to lower our overall cost of ownership, improve our productivity and boost our software solution platform effectiveness,” said Michael Raya, CEO of West-ward Pharmaceuticals. “We want our staff to be able to focus on boosting our operational efficiencies and growing our operations to meet our customers' needs, versus spending valuable energies on systems and application software maintenance. We expect that Pilgrim On-Demand will provide us the required flexibilities by taking away the traditional IT burdens.”

“World class companies are increasingly adopting SaaS strategy, which allows customers to spend more time streamlining their operations as opposed to building and maintaining IT infrastructure and architecture to run their strategic applications,” said Prashanth Rajendran, Pilgrim's Chief Operating Officer. “West-ward Pharmaceutical is well poised to realize these benefits quickly, particularly when the unparalleled support that Pilgrim Software provides, enables them to get the most out of their investment in our ECQM solutions.”

With no client software involvement, the 100% browser-based SmartSolve solution allows for information sharing and collaborative productivity for managing the key quality and compliance processes. Furthermore, advanced built-in security features protect customers' intellectual property.

About West-ward Pharmaceutical Corp.

Founded in New York in the late 1940s, West-ward Pharmaceutical Corp. became, in 1991, the flagship for Hikma, a multinational group of pharmaceutical companies, to conduct generic pharmaceutical operations in the U.S. With an annual capacity of about 1.7 billion tablets/capsules, West-ward develops, manufactures and markets a broad range of generic prescription products in a variety of dosage forms – for extended or immediate release. Their assurance procedures are performed throughout the production process to ensure adherence to federal, state and in-house standards. Besides its own sales, West-ward also has been helpful in promoting the US sales of some of the other operations within Hikma. West-ward is headquartered in Eatontown, N.J. For more information, visit

<http://www.hikma.com/>

 [Click here to return to Contents](#)

Product News

Autodesk and Vela Systems Collaborate to Provide Building Information Modeling for the Field

5 August 2009

[Autodesk](#), Inc. has announced that it has collaborated with [Vela Systems, Inc.](#), a provider of mobile field automation software for the architecture, engineering and construction (AEC) industries, to integrate Vela Systems Field BIM Software Suite with [Autodesk Navisworks](#). Navisworks is a software tool for combining project contributions into a single, coordinated 3D building information model. This

CIMdata PLM Industry Summary

technology integration extends the [building information modeling](#) (BIM) process to the field by making it possible for Autodesk Navisworks 3D project models to reflect the state of objects within the design based on field-gathered data.

Using Vela Systems software --including bar-coding and radio-frequency identification (RFID) tracking technology--builders on-site can access a data-rich Autodesk Navisworks project model during the construction phase. Instead of leaving the Autodesk Navisworks model and its data behind in the office or job trailer, jobsite users can work with Vela Systems software on mobile tablet computers to access the intelligent model on-site. This makes it possible to track material production and installation, manage commissioning, conduct quality assurance/quality control inspections, do punch lists and create electronic owner-handover documentation. Autodesk Navisworks users may designate which information will be managed in Vela Systems and, as a result, the Vela Systems software enables this data to be properly managed and used in the field. The integration between the products is bi-directional and automated. The result is that the information from the field connects the "should be" state-of-design to the "as-is" state-of-construction.

New Solution Applied to Autodesk AEC Headquarters in Waltham, Mass.

During the construction of Autodesk's new AEC headquarters on Trapelo Road in Waltham, Mass., Tocci Building Corporation utilized Vela Systems Materials Tracker and Issues and Punchlists software products. By combining Vela Systems software with Autodesk Navisworks, all parties were able to monitor and track office workstations at the new Autodesk facility. Vela Systems Materials Tracker pulled objects from the Autodesk Navisworks model through an automated integration, and then captured their status information (for example, delivered, ready-to-install, installed or damaged) from the field. This field gathered data was then deposited into the Autodesk Navisworks model. Tocci and subcontractor Creative Office Pavilion were then able to visualize and monitor the installation and quality status of workstations in real-time, making it possible to plan for shortages or discrepancies accordingly.

The benefits of extending BIM to the field on the Autodesk headquarters project were threefold. First, upon delivery, the inventory of available workstations was confirmed against the model - this revealed that all necessary components were on-site ahead of the actual delivery manifests so the next phase of work could begin sooner. Then, the staging, assembly and installation processes for workstations were tracked from Vela Systems back into the Autodesk Navisworks model through color coding of model elements. This enabled the team to visualize available inventory and coordinate installation processes more efficiently. Last, the quality control processes of final inspection and owner punch lists were automated in the field with Vela Systems and linked back to the Autodesk Navisworks model, improving team communication and project delivery.

"Tying together field data with the model creates new opportunities for construction delivery methods and oversight," said Tocci Building Corporation general superintendent, Bob Tierney. "By using the integrated Autodesk and Vela Systems solution on this project, we demonstrated how we can connect the 'virtually built' building to the 'physically built' one. The model gives us better oversight because everyone can instantly visualize problem areas as 'hot spots' with live data from the field. It is the obvious next step for contractors looking to maximize the value of BIM."

"The combination of using 3D modeling tools and practicing BIM is helping to transform the building industry," said Tim Douglas, Autodesk industry solutions manager, construction. "The integration of Vela Systems Field BIM solution into Autodesk Navisworks software provides our customers with better accuracy and efficiency for the duration of the project--beginning in the design phase and

CIMdata PLM Industry Summary

continuing through field implementation and handover."

"By integrating Vela Systems and Autodesk Navisworks, our joint customers can leverage the transformative power of BIM beyond design into the construction process," said Tim Curran, CEO, Vela Systems. "By leveraging the model in the field, contractors benefit from greater efficiencies and owners get a better end product."

BIM is an integrated process that allows architects, engineers and builders to explore a project digitally before it's built. Coordinated, reliable information is used throughout the process to design innovative projects, accurately visualize appearance for better communication, and simulate real-world performance for better understanding of important characteristics such as cost, scheduling and environmental impact.

 [Click here to return to Contents](#)

Bentley's RAM Advanse Becomes RAM Elements

4 August 2009

Bentley Systems, Incorporated has announced the immediate availability of [RAM Elements](#) version 10.0, the newest release of Bentley's structural engineering application formerly known as RAM Advanse. The software's new name better reflects its comprehensive capabilities, which include a powerful 3D finite element method and toolset of commonly used engineering tasks for the analysis and design of almost any type of structure or structural component. Beginning with this release, RAM Elements features a simpler and more productive graphical user interface (GUI) that efficiently organizes available user options.

Santanu Das, Bentley vice president, Structural Engineering Group, said, "For more than a decade, Bentley's RAM Advanse, which we have just renamed RAM Elements, has been providing thousands of structural engineers around the world with unmatched productivity for modeling, optimizing, and designing structural elements and systems ranging from trusses, continuous beams, frames of all types, retaining walls, and masonry walls to tilt-up walls, shear walls, metal buildings, and cold-formed structures or footings. It is the only structural engineering software system available offering users finite element analysis and design plus stand-alone or integrated design modules – all in a single, low-cost, easy-to-use package that includes a modern, user-friendly GUI."

RAM Elements is part of Bentley's complete line of interoperable engineering modeling, analysis, design, and drafting software that also includes [Bentley Structural](#) for [Building Information Modeling](#) (BIM) and drawing production, [RAM Structural System](#) for the complete design of building structures, [STAAD.Pro](#) for plant design and advanced finite element analysis, [RAM Concept](#) for reinforced or post-tension slab or mat design, and [RAM Connection](#) for steel connection design. The depth and breadth of this portfolio enable Bentley to leverage advanced graphical modeling tools, along with its knowledge and support of ever-changing national and international design codes, to consistently enhance the features of RAM Elements and extend its applicability around the globe.

Added Das, "One additional distinction of RAM Elements that continues to help drive its widespread popularity is its ability to solve complex problems and generate solutions in a matter of hours, rather than days – which other products on the market often require. This translates into increased project team productivity and, ultimately, enhanced profitability for the organization."

For additional information about RAM Elements, visit www.bentley.com/RAMElements.

 [Click here to return to Contents](#)

Delcam Launches Fastest-Ever CAM

3 August 2009

Delcam has launched version 10 of its PowerMILL CAM system, which offers the fastest-ever toolpath generation on multi-processor computers, giving greatly increased user productivity. The new release 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 dramatically.

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.

Full details on the new version can be found on the PowerMILL 10 release centre – <http://www.powermill.com/rc10>. This also includes a white paper on the use of multi-threading and background processing, details on recommended hardware for PowerMILL 10, a return-on-investment calculator showing how quickly an investment in the software can be recovered, and a number of customer video testimonials.

The main benefit of PowerMILL 10 is that 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. For example, it is no longer necessary to wait for a complete roughing path to be produced before work starts on programming the rest-roughing operation. Similarly, the user can be setting the parameters needed to machine one area of a part, while toolpaths are being calculated in the background for machining a second area with a different strategy.

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. This approach can be used with single core equipment but the benefits are even greater with computers having two or more cores.

The new multi-threading capabilities allow individual calculations to be divided between the cores in a multi-core machine. This improves calculation times significantly so increasing user productivity, reducing any down-time where machine tools are waiting for NC data and minimising lead times.

The extent of the savings will depend on the size and complexity of the part being machined and on the programming strategies being used. Tests at Delcam indicate that a dual core computer will perform raster machining calculations in around 55% of the time taken by a single core machine. A quad core machine will complete the calculation in around 35% of the time and an eight core machine in around 25% of the time.

 [Click here to return to Contents](#)

Informative Graphics Launches Latest Brava! Family with Eye on Global Use

5 August 2009

Informative Graphics Corporation (IGC) announced that the latest release of its Brava!® Family features new fidelity and performance enhancements, new redaction features, and improved features for integrators and global resellers. Ideal for securely sharing documents, Brava is a Windows-based

CIMdata PLM Industry Summary

application that offers viewing, annotation and redaction for images, documents and drawings.

The Brava Family includes the new releases of Brava Enterprise, Brava Desktop, Free Brava Reader, and the Free DWG Viewer. Key features of the release include:

- Improved support for Asian, Arabic, Cyrillic, and all other Unicode character sets

- User interface language is based on user's regional settings

- Markup text can be entered both right to left and left to right

- Upgraded redaction tools to enable users to redact an entire page or range of pages, redact a list of names, redact "everything except..." and find and redact all text between specified words or phrases

- Performance and fidelity enhancements

"As our global customer base grows, we must be increasingly attentive to multi-language issues," said Gary Heath, CEO of IGC. "With this release, we focused on improving the experience for our domestic and international partners alike. The changes in Brava Enterprise provide more flexibility with regard to the user interface language. This means that users throughout the enterprise can select their language of choice, easily and on the fly."

"Brava offers the flexibility we need to create the best solution for our clients and is very easy to integrate," said Adam Storch, Vice President, Business Solutions, Micro Strategies Inc. An innovative technology solution provider, Micro Strategies is noted for its commitment to responsive, client-first service.

For more information about Brava please visit: <http://www.bravaviewer.com>. Free downloads of Brava Reader and DWG Viewer are available at: <http://www.bravaviewer.com/download.htm>.

 [Click here to return to Contents](#)

Kubotek Announces Partnership with Tech Soft 3D to License Adobe 3D Technology

5 August 2009

[Kubotek USA](#), working with Tech Soft 3D, an Adobe Systems Incorporated Solution Partner, has signed an agreement to advance and strengthen its technology suite through close integration with Adobe® Acrobat® 9 Pro Extended software. Tech Soft 3D provides the Adobe technology on an OEM basis, and through their consulting services, will ensure a successful implementation of the technology within Kubotek's MBD solutions. The agreement will provide powerful capabilities to manufacturers as they move away from 2D drawings and allow further investment in the use of MBD and PMI.

Model based definition (MBD) is quickly becoming the preferred way for OEMs to exchange design data throughout the supply chain; designs are stored and traded as 3D CAD files only. Kubotek has been demonstrating leadership in MBD related work, including involvement in the LOTAR (Long Term Archival) project for practical PMI implementation, as well as through the use of its geometry based engineering technology in such products as the Kubotek Validation Tool.

Says Robert Bean, Executive Vice President of Kubotek USA, "The agreement strengthens our commitment to providing manufacturing professionals the robust tools they need to increase their product quality and business performance using geometry based software tools. We feel this agreement will further empower the OEM-Supplier relationship; leveraging 3D PDF as the container for 3D data with PMI relieves many of the headaches manufacturers face in their quest to implement MBD with

their supply chains.”

Added Ron Fritz, CEO of Tech Soft 3D, “Kubotek’s implementation of the Adobe 3D SDK is a fine example of how Adobe’s 3D technology can extend existing high-impact solutions to add even more value for the manufacturing community through the richness and ubiquity of 3D PDF and the Free Adobe Reader.”

“We are excited to have Kubotek include Acrobat Pro Extended as part of their solution for manufacturing customers that need advanced validation and comparison technology,” said Greg Baker, Senior Manager for Manufacturing Strategic Alliances, Adobe. “With more manufacturing companies standardizing on 3D PDF as the container for 3D data with PMI, Kubotek’s validation and comparison technology will be invaluable for ensuring the accuracy of data leveraged in downstream processes.”

Adobe 3D technology will extend the power and flexibility of the full range of Kubotek Geometry based Engineering tools, including KeyCreator CAD, KeyMachinist and the Kubotek Spectrum Multi-CAD Viewer.

 [Click here to return to Contents](#)

Lattice Technology Releases German version of XVL Player Version 10

6 August 2009

Lattice Technology® announced the release of Version 10 of the German language version of its free XVL Player and XVL Player Pro.

XVL Player is a freely available viewer that allows anyone with 3D XVL data to be able to view, rotate and cross-section the 3D geometry, check assembly trees against 3D parts, play animations, and view BOMs, annotations and other data that might be contained within the XVL file. XVL Player works on Windows PCs, and allows users with low specification PCs and no CAD knowledge to quickly explore and understand 3D data for their needs.

This latest XVL Player supports customers using the German language who can now freely access 3D data in the new XVL v10 format. XVL v10 can compress 3D CAD data to 0.5% of its original size with no loss of accuracy, allowing anyone in the manufacturing supply chain to quickly view and understand even the most complex 3D CAD data.

New tools in this updated version of XVL Player include easier navigation of the user interface to more easily access the wide range of controls available to view and interrogate the 3D data, plus new tools to change the behavior of process animations saved within the XVL file.

The German version of XVL Player is available for free, after a short registration, at Lattice Technology’s web site at: <http://www.lattice3d.com>.

More information about the XVL v10 format is available at:
http://www.lattice3d.com/company/tech_3d_image.html

 [Click here to return to Contents](#)

Maxwell Technologies and ANSYS Release Ultracapacitor Components Library for Use in Simplorer

4 August 2009

ANSYS, Inc. announced that an ultracapacitor components library from Maxwell Technologies, Inc., an

CIMdata PLM Industry Summary

ANSYS customer, has been made available for use in Simplorer® technology. As a result, automotive, aerospace and industrial power engineers developing hybrid vehicles and other electric-powered products and systems now can easily utilize the energy-storage device models in their simulations.

Dr. John M. Miller, Maxwell Technologies vice president, systems, applications & integration, said that his company selected Simplorer software based on the strength of its simulation capabilities, the IEEE standard modeling language for analog-mixed signal systems, and the focus at ANSYS on providing high-performance, multi-domain system simulation solutions.

"The ultracapacitor component library includes the latest innovations for high-performance Maxwell BOOSTCAP® ultracapacitor cells and multi-cell modules," Miller said. "This will help ensure that our current and future customers have the necessary elements to develop the next generation of energy storage systems for low-emission, fuel-efficient, hybrid powertrains, advanced electrical drive systems, and other transportation and industrial applications. We chose the Simplorer platform because it provides robust modeling capability, is widely used in our target markets and adheres to VHDL-AMS modeling standard."

Ultracapacitors are energy-storage devices that efficiently deliver bursts of high power and recharge rapidly from any energy source over hundreds of thousands to millions of cycles. Maxwell's BOOSTCAP ultracapacitor products currently are being used for backup power in wind turbines and other industrial applications and for braking energy recuperation and torque assist in low-emission, fuel-efficient hybrid-electric/internal-combustion transit buses and electric rail vehicles. They also have been designed into hybrid trucks and automobiles that will move into production over the next few years. Compared to batteries, BOOSTCAP cells deliver up to 100 times the power, last more than 100 times as long, operate more reliably in high- and low-temperature conditions, require little or no maintenance, and reduce environmental issues associated with battery disposal.

The ultracapacitor model library is already being utilized within Simplorer software at Argonne National Laboratory, which supports the U.S. Department of Energy's mission of providing the nation with a safe, reliable and environmentally friendly energy supply. "We use this model to develop experiments that allow our control software to actively couple ultracapacitors with lithium ion batteries. It helps us to predict the behavior of Maxwell ultracapacitors in the simulation phase before running hardware-based experiments," said Ted Bohn, principle investigator on plug-in hybrid electric vehicle (PHEV) prototype vehicle development in the Vehicle Systems Group at Argonne National Laboratory. "Making this model available via download will now allow others working with these advanced technology components to explore the possibilities of reducing the cost of energy storage system components and increasing performance for future plug-in vehicles."

"Hybrid-electric and plug-in electric vehicles and alternative energy research and development are of great interest to our Simplorer customers," said Dr. Marius Rosu, electromechanical product manager at [ANSYS, Inc.](http://www.ansys.com) "For researchers to have access to accurate models of ultracapacitors directly from Maxwell Technologies will make them more productive and speed the pace of their research."

The ultracapacitor components library is available for download at <http://www.ansoft.com/modeldb/>.

About Maxwell Technologies, Inc.

Maxwell's BOOSTCAP® ultracapacitor cells and multi-cell modules and POWERCACHE® backup power systems provide safe and reliable power solutions for applications in consumer and industrial electronics, transportation and telecommunications. Its CONDIS® high-voltage grading and coupling capacitors help to ensure the safety and reliability of electric utility infrastructure and other applications

involving transport, distribution and measurement of high-voltage electrical energy. Its radiation-mitigated microelectronic products include power modules, memory modules and single board computers that incorporate powerful commercial silicon for superior performance and high reliability in aerospace applications. To learn more, visit <http://www.maxwell.com>.

About Argonne

The nation's first national laboratory, Argonne National Laboratory conducts basic and applied scientific research across a wide spectrum of disciplines, ranging from high-energy physics to climatology and biotechnology. Since 1990, Argonne has worked with more than 600 companies and numerous federal agencies and other organizations to help advance America's scientific leadership and prepare the nation for the future. Argonne is managed by the University of Chicago Argonne LLC for the U.S. Department of Energy's Office of Science.

 [Click here to return to Contents](#)

Mentor Graphics Library of Questa Multi-view Verification Components Supports HDMI

7 August 2009

[Mentor Graphics Corporation](#) announced that the Questa® Multi-view Verification Components (MVC) library now supports HDMI (High-Definition Multimedia Interface), a compact audio/video interface for transmitting uncompressed digital data. The Questa MVC library helps speed up functional verification of integrated circuits (ICs) incorporating HDMI interface logic, and drastically improves verification coverage for today's complex multi-media platforms.

Lowering the Barriers to Mixed-abstraction Verification

The complexity of today's SoC verification environments often requires designers to spend valuable time building and verifying multiple, and usually incompatible, verification models of a single block to support system-level, TLM-level and RTL-level verification. This lack of consistency prevents teams from easily moving up and down in abstraction and maximizing verification effectiveness.

Mentor's Questa Multi-view Verification Components can connect to any level of abstraction from system to gates – ensuring consistent model behavior and giving the verification team more options to improve performance and increase coverage. The multi-view technology greatly reduces debug time through recognition of protocol stacks. This allows simulation results, from RTL verification, to be viewed as sequences of initiated transactions and responses, with the RTL signal activity correlated to a higher level transaction view of activity.

Each protocol, such as the HDMI, supported by the Questa MVC library includes a verification plan with full coverage metrics that integrates with the Questa Verification Management system. The verification plan easily incorporates into hierarchical full-chip verification plans. Questa Verification Management provides visibility into the status of the verification process by providing correlation of coverage metrics to the verification plan.

“The MVC library, which is written in SystemVerilog, supports OVM 2.0 with stimulus generation, reference checking, monitoring and functional coverage for popular protocols such as HDMI,” said Stephen Bailey, director of product marketing for the Design Verification Technology Division of Mentor. “This enables fast development of tests for all aspects of standard protocols for directed and constrained-random verification environments.”

Availability

Questa MVC support for HDMI is available immediately.

Questa Functional Verification Platform

The Questa functional verification platform combines high performance and high capacity and comprehensive verification capabilities Assertion-based Verification (ABV), intelligent testbench automation, Multi-view Verification Components (MVC), and Coverage-driven Verification (CDV) are supported natively by the Questa platform's high-performance assertion engine; a modern, high-performance constraint solver; and extensive functional coverage features, including verification management leveraging the Unified Coverage Database (UCDB). Verification of low power design functionality can be proven in an RTL environment with power-aware functional verification. This full set of advanced verification functionality is enabled by a flexible Open Verification Methodology (OVM 2.0) that delivers unrivaled language and feature support in any design and verification flow.

 [Click here to return to Contents](#)

NEi Fusion 2.0 with Nastran Targets "In-CAD" FEA Market

4 August 2009

NEi Software (NEi), a leading developer of [Nastran Finite Element Analysis \(FEA\) software](#), announced the release of NEi Fusion 2.0, a combination of Nastran FEA solvers and 3D modeler powered by SolidWorks®. The NEi Fusion 2.0 upgrade adds several types of advanced modal and heat transfer analyses, new element types, new load capabilities, and support for hyperelastic and orthotropic [composite materials](#). A brochure describing the new features and enhancements in detail along with a 90-second video demonstration of the product is at <http://www.NEiSoftware.com/NEiFusion>. NEi Fusion is used by product development professionals like CAD Designers and Product Engineers to compress design time, cut prototyping and testing costs, and improve quality. The product is also of interest to FE analysts who like the option of a pre-post tool with a 3D CAD orientation and CAD/FEA model associativity, and consultants who need a Nastran solution in their simulation software portfolio. The new NEi Fusion release provides an alternative to "In-CAD" FEA offerings in the designer/product engineer segment of the simulation software market. NEi Fusion offers these users a combination of: comprehensive 3D CAD environment for model creation, professional level FEA capabilities with high accuracy solvers, surface contact, optimization, composites, Automated [Impact Analysis](#) (AIA™), and a future growth path to analyst level simulation if needed via the Nastran solver platform. All at a competitive price point to "In-CAD" FEA.

Several industry writers have [review articles on NEi Software's offering](#) in the market for design-stage FEA. Vince Adams, co-author of the book *Building Better Products with Finite Element Analysis*, commented on the product positioning:

NEi Fusion 2.0 has managed to fill the void between complete yet expensive simulation systems and inexpensive yet limited tools. Any design engineer struggling with the limitations of complex interfaces or limited capabilities should give NEi Fusion a hard look. While the product is based on established technologies, NEi Nastran and SolidWorks, the combination is new enough to show exciting improvements with every release.

Al Dean, *Develop3D* Editor, in a recent review article on NEi Fusion noted the role of advanced capabilities:

CIMdata PLM Industry Summary

While the basic structural tools are standard fare, where NEi Fusion gets interesting is in the deeper levels of functionality. A case in point is the impact analysis tool. From a deceptively simple input set, under the hood the system does some incredibly complex mathematics. The composites analysis tools make something that could be incredibly complex, much more streamlined to the process of design.

NEi Software is hosting a webinar on August 19 at 11:00 AM PDT, "Virtual Testing at the Design Stage," to demonstrate NEi Fusion's new capabilities. Sign up for the online event is at <https://www1.gotomeeting.com/register/545482472?Portal=www.gotowebinar.com>.

 [Click here to return to Contents](#)

PLM, PDM and ERP Integration Tools Now Support XVL v10, the Latest, Most Compressed 3D Data Format

4 August 2009

Lattice Technology® announced that it has released updates to its applications that comprise the XVL System Toolkit. With updates to XVL Filter, XVL Reducer and XVL Processor, manufacturers can now handle XVL v10 files easily and quickly within their integrated manufacturing IT infrastructures.

XVL System Toolkit empowers a manufacturing operation to turn enterprise-wide 3D data into a competitive advantage and extend best practices with 3D across an entire manufacturing supply chain. XVL System Toolkit delivers the tools to integrate automated processing of 3D CAD data into XVL across an integrated PLM, PDM or ERP system. With these tools, 3D data can be automatically processed and delivered in many different forms including, but not limited to, interactive work instructions, 3D parts lists and BOMs, assembly animations, and 2D illustrations direct from 3D. XVL applications sit within the automated system to provide all these outputs as well as advanced Digital Mock Up (DMU) and Design Review tools.

XVL System toolkit comprises 3 products that work automatically within manufacturing IT systems when 3D CAD data is checked in:

XVL Filter manages the handling of 3D data into various predefined forms, for example, combining multiple 3D files into one XVL file and vice versa. This tool also manages creation of updated assembly instructions and technical illustrations in standard document formats, addition of security to files, and more.

XVL Processor automatically handles manipulation of external, non-CAD data such as .CSV data and integrates it with the 3D XVL data based on predefined settings. The application also manages automated creation of interference and clearance check reports on 3D CAD data.

XVL Reducer automatically removes predefined geometry elements from 3D XVL data that is regarded as proprietary or unnecessary, can remove 3D that is hidden behind other surfaces, aggregates faces and edges to reduce file size, and more. The overall result is to deliver XVL data that is even smaller in file size and that does not reveal proprietary data to unauthorized teams, suppliers or other participants.

XVL System Toolkit is compatible with ERP and PLM systems including: Windchill®, Teamcenter®, ENOVIA®, DELMIA®, SmarTeam® and SAP®.

This latest version of XVL System Toolkit supports the new XVL v10 format, which delivers the industry's most compressed 3D format with no loss of accuracy. XVL v10 can compress 3D CAD data to 0.5% of its original size for both surface and polygon data, allowing anyone in the manufacturing

CIMdata PLM Industry Summary

supply chain to quickly view and understand even the most complex 3D CAD data, even on a low specification PC.

More information about the XVL v.10 format is available at:

http://www.lattice3d.com/company/tech_3d_image.html

Information about XVL System Toolkit can be found at:

http://www.lattice3d.com/products/products_systemtoolkit_3d_software.html

To understand more about the strategies and techniques for using 3D in integrated manufacturing infrastructures, Lattice Technology recently released a free downloadable e-book, 'Improving Lean Manufacturing Through 3D Data' by Dr. Hiroshi Toriya. The book delivers a series of case studies, survey data and information that help manufacturers understand how to take 3D out of the design stage and make it relevant to a lean manufacturing strategy. This book is available at Lattice Technology's web site at: http://www.lattice3d.com/book/index_1.html

 [Click here to return to Contents](#)

Tekla Structures Launches Integration with BuildSite Construction Product Database

3 August 2009

Tekla Corporation has integrated its Building Information Modeling (BIM) solution, Tekla Structures, with BuildSite's database of product, technical, and procurement information for construction. In addition to direct database access and embedded search, the Tekla Structures / BuildSite integration will allow users to associate product documents and submittal links from BuildSite with 3D building elements.

"From its early days, Building Information Modeling has incorporated the idea of a materials database talking to a design, detailing and construction database," said Ned Trainor, President of BuildSite. "Tekla has now accomplished it. Access to the products, specifications, and supplier locations in BuildSite's database should benefit Tekla users throughout a project, from conceptual design to facilities management. If you need product data, it's at your fingertips."

Andy Dickey, Business Manager for Tekla North America's Contractor Group added, "Tekla Structures allows design, detailing and construction teams to effectively collaborate at every stage of the building lifecycle. Now our users can easily access product data and integrate it into the Building Information Model for the project. This is another step forward for BIM and for Integrated Project Delivery (IPD)."

BuildSite and Tekla Corporation would like to acknowledge the help of Professor Iris Tommelein of the Project Production Systems Laboratory (P2SL - p2sl.berkeley.edu) at UC Berkeley for helping to conceptualize the integration.

About BuildSite

BuildSite, through <http://www.buildsite.com> provides an online product, technical, procurement, and green product database to the worldwide construction industry. The BuildSite database consists of over 20,000 products from more than 250 manufacturers, along with over 600 supplier locations. BuildSite also provides software tools for construction submittals, allowing data from the supply chain to flow into project management and design. BuildSite Green Data, a next generation database of environmental and LEED® data for construction products, will include online submittal templates tied to the requirements of the US Green Building Council.

 [Click here to return to Contents](#)

Zuken Collaborates with Major Automotive Companies for Improved EMC and Power Integrity Capabilities in CR-5000 Lightning

4 August 2009

[Zuken](#) has successfully completed a three year European research project focused on improving the development process and modeling of new chip sets and dedicated high density interconnect that will bring major improvements to the company's high-speed design software, [CR-5000 Lightning](#) for Power Integrity analysis. This comes from direct collaboration with IC vendors and automotive electronic suppliers, resulting in advancements in modeling capabilities for automotive electronic relevant circuits and beyond. The first stage of enhancements directly resulting from this project, will be integrated into version 12 of CR-5000 Lightning scheduled for launch in autumn.

The close research cooperation with IC companies and development groups of complex motor control units in the MEDEA+ project has enabled Zuken to schedule significant enhancements into the CR-5000 Lightning solution, particularly for supporting Power Integrity analysis. In subsequent versions of the software, dedicated IC models delivered by IC vendors like Infineon that describe the chip power-ground behavior will be supported in the analysis phase.

The signal integrity analysis capabilities of CR-5000 Lightning will also be improved as a result of this project, providing functionality that allows modeling of package parasitic effects, e.g., when analyzing noise effects on high-speed PCBs.

Zuken's EMC Technology Centre in Germany was brought onboard for the MEDEA+ Parasitic Extraction and Optimization for Efficient Microelectronic System Design and Application Research (PARACHUTE) Project to provide the design level modeling and simulation. As the primary EDA partner providing new EMC modeling concepts within the MEDEA+ PARACHUTE research project, Zuken has also positively contributed to the industry by assisting in the development of a new approach to electronic design in Europe relating to physical noise from nanometer circuits to IC-package and PCB/system level design.

Ralf Brüning, from Zuken Technology Centre in Paderborn, Germany, who headed up this activity for Zuken and led the subproject, "Add-On Tool Environment and Design Flow", comments:

"By working with companies such as Airbus, Astrium, Bosch, Continental, Infineon, Philips and ST-Microelectronics, along with various universities and research labs, we have been able to gain firsthand knowledge of the specific issues the market is facing when using very dense high-speed designs in automotive or aerospace control units. This has given us important experience enabling Zuken to incorporate industry-relevant improvements into future software releases."

About MEDEA+

MEDEA, the industry-initiated pan-European program for advanced co-operative research and development in microelectronics. By working in partnership with companies such as Airbus, Alcatel, Bosch, Infineon, Continental, Philips and ST-Microelectronics, the project has begun forming the basis of methods of modelling and simulation at the system design level.

 [Click here to return to Contents](#)