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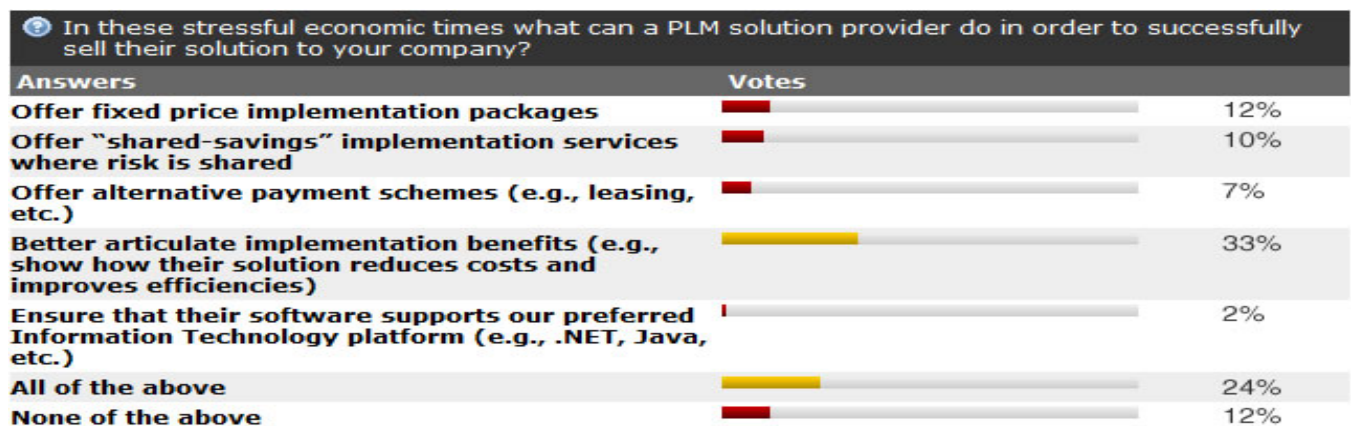
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## CIMdata News

### *CIMdata Announces the Results of its Poll on What a PLM Solution Provider Can do to Successfully Sell Their Solution to You During Today’s Stressful Economic Times*

10 April 2009



# CIMdata PLM Industry Summary

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

## **CIMdata Analysis:**

The latest CIMdata Opinion poll (March 2009) sought to understand what PLM solution suppliers can do to successfully sell their solutions in today's stressful economic times. The choices from which participants selected primarily focused on various forms of cost and/or benefit-related strategies. As illustrated in the graphic, one-third of poll participants indicated that the solution supplier community needs to do a better job articulating their solutions' value propositions (e.g., show how their solutions reduce cost and improve efficiency). This is not too surprising since during stressful economic times, most companies are clearly looking for quick return on investment (ROI) initiatives. What is somewhat surprising is that only 7 percent of participants indicated that solution suppliers should offer alternative payment schemes (e.g., leasing, etc.). In times where many companies are generally cash-poor and/or reluctant to layout cash, it would actually make sense for them to seek purchasing arrangements where they don't have to spend capital to receive measurable business benefit.

Another surprising result of the poll is the very low percentage of participants who indicated that the most important thing that could be done was for solution suppliers to ensure that their software supports a company's preferred Information Technology (IT) platform (e.g., .NET, Java, etc.). This is surprising because managing multiple technology platforms can, and usually does drive up support costs significantly. Furthermore, it has been CIMdata's experience that companies generally seek to reduce IT support costs during stressful economic times by consolidating platforms and/or systems. This is a trend we have seen during past stressful economic times and one which we expect to see more of in today's economic climate.

Finally, it is worth noting that 24% of poll participants indicated they feel that all of the strategies mentioned are valid options for PLM solution suppliers seeking to be successful in today's stressful economic climate. This in fact means that more than 50% of poll participants would actually like to see PLM solution suppliers better articulate their solutions' value propositions. This is by no means a rounding error; clearly this is an area in which solution suppliers have to do a better job.

Be sure to participate in our latest poll regarding whether your company develops/uses PLM analytics. **Vote [here](#)**. The results of these polls are tabulated as you vote. The results are completely anonymous.

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

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## Company News

### *Autodesk Assistance Program Offers Help to Displaced Workers*

6 April 2009

[Autodesk](#) is launching the [Autodesk Assistance Program](#). The Autodesk Assistance Program will provide Autodesk customers and partners with design software tools, education and resources that will help them to enhance, maintain and develop their [3D design technology](#) skills and remain competitive in the marketplace. The program will offer free\* student software term licenses, free online training and a path to certification to unemployed architects, designers and engineers in all industries.

Autodesk Assistance Program tools and resources will be made available through an [online portal](#),

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where users can access:

**Free\* Software License:** Any 13-month term student license of AutoCAD, Autodesk Revit Architecture, Autodesk Inventor Professional, and/or AutoCAD Civil 3D software.

**Free Online Training:** On-demand training available 24 hours a day, 7 days a week provided online through [vBooks](#) - powered by Retrieve Technologies, Inc. (internet access required)

**Reduced-Cost Classroom Training:** Many [Autodesk Authorized Training Center \(ATC\)](#) partners are offering classroom training at their training facilities for free or for a significantly reduced fee.

**Certification:** Certification preparation and exams are available at discounted rates through Autodesk Authorized Certification Centers.

In addition to the Autodesk Assistance Program, Autodesk has partnered with various industry organizations on local initiatives. For instance, the new Autodesk office in Waltham, Mass., is teaming with the local Boston Society of Architects to offer free volunteer-led immersion seminars on building information modeling (BIM) to unemployed design professionals in the Boston area. Autodesk resellers and Chief Information Officers from different Boston-area companies are all pitching in to help teach the seminars. Seminar attendees receive a free\* Revit Architecture student term license, and can also receive American Institute of Architects (AIA) continuing education credit for the seminars.

Partners who participate in the Autodesk Assistance Program will be designated as official Autodesk Assistance Program members on the program's website. Offers for certification and classroom training will vary depending on each ATC. [Locate an Autodesk ATC](#) in your area for details.

The Autodesk Assistance Program is being launched in North America. The company hopes to roll the program out in other countries over the next few months. Listen to Steve Blum discuss the program in a video on the [Autodesk YouTube](#) channel.

Autodesk currently provides training and online resources to end users through [Autodesk University Online](#) (AU Online), [Autodesk User Group International](#) (AUGI), various online [industry communities](#) and the Autodesk [YouTube](#) Channel.

For more information about the Autodesk Assistance Program, please contact your local reseller, or contact Autodesk directly at [assistance@autodesk.com](mailto:assistance@autodesk.com) or visit [www.autodesk.com/assistanceprogram](http://www.autodesk.com/assistanceprogram).

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## ***Delcam Adds DM Solutions to FeatureCAM Reseller Network***

8 April 2009

Delcam has expanded its reseller network for its FeatureCAM family of feature-based CAM software by adding DM Solutions to its network of experienced resellers in the USA. DM Solutions has represented Delcam's Power Solution range of software in the North-East states for over ten years and has now extended its agreement to also cover the sale and support of the FeatureCAM product line.

Rich Pauli, President of DM Solutions, explained the reasoning behind the expansion of his business. "We have been very pleased with the wide range of client applications that we have been able to address with the Power Solution products, including ArtCAM, PowerMILL, PowerSHAPE, PowerINSPECT and the newer medical products," he claimed. "By adding FeatureCAM to our existing Delcam lines, we can offer a solution to machine any type of material on any class of machine tool, from a simple lathe up

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to the most sophisticated five-axis machining centre.”

“We are particularly impressed with FeatureCAM’s strengths in turning, feature recognition, knowledge-based programming, solids machining, and multi-function mill-turn machines,” he continued. “Adding these capabilities for our potential clients is important, especially in the current financial climate.”

“With Delcam, we know that we have the resources of the biggest development team in the industry behind us. We can deliver regular upgrades and enhancements to our customers, and we can feed back their suggestions for future improvements directly to the developers.”

Maida Koller, Delcam’s Vice President for Eastern USA Sales was enthusiastic about the extended agreement. “DM Solutions is a vastly experienced company having been in business for over 22 years,” she pointed out. “The key personnel combine over 80 years of design and manufacturing expertise in the most complex production, tooling, moldmaking and prototyping areas.”

“Like all our resellers, they offer much more than simply providing CAD/CAM software,” Ms. Koller stated. “They also have a strong track record of working with their customers on tailored applications, training and consulting services. I am confident that they will be as successful with the FeatureCAM products as they already are with the other Delcam software.”

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## ***Delcam Appoints FeatureCAM Representative for Oklahoma***

9 April 2009

CAD/CAM developer Delcam announced the appointment of Rick Huddleston as Manufactures Representative for the state of Oklahoma for the company’s FeatureCAM feature-based CAM product. Rick Huddleston has taught FeatureCAM classes for over 10 years and has over 20 years’ experience in the industry.

Most FeatureCAM customers in Oklahoma already know Rick as they have been through his training programs. Rick has worked closely with large customers in the oilfield and aerospace industries. Rick’s main responsibility will be managing pre- and post-customer support for Delcam’s FeatureCAM CAD/CAM software for milling, turning and wire EDM. His experience in this market has lead to the new appointment over FeatureCAM for the state of Oklahoma.

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## ***DS SolidWorks Unveils ‘Engineering Stimulus Package’ for Displaced Workers***

7 April 2009

Extending a hand to displaced designers and engineers, Dassault Systèmes SolidWorks Corp. (DS SolidWorks) today activated a program to give these potential employees a chance to learn valuable new career skills in 3D computer-aided design.

Called [the SolidWorks Engineering Stimulus Package](#)<sup>™</sup> and first announced at SolidWorks World 2009 in February, the program gives free SolidWorks® 3D CAD software licenses, training videos and tutorials, networking, certification, and potential job leads to any job seeker living in the United States or Canada. It will help them retool their skills at a time when unemployment is at 8.5 percent (a 25-year

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high), 3.3 million jobs have been lost in the last five months, and manufacturing employment fell by 161,000 in March.

Reid Bader operated his own heating and mechanical systems construction business until December of 2008, when lack of work forced him to lay off his employees and close his business. He will download the SolidWorks Engineering Stimulus Package this morning. “While researching online job postings, it has become apparent that 3D CAD modeling and simulation skills are in demand,” he said. “It also has become apparent that SolidWorks is the platform that has critical momentum. When I found out that SolidWorks had an Engineering Stimulus Package for engineers who have been challenged by the hard economic times, I was very excited. I plan on enrolling in the program and becoming a certified expert on the SolidWorks platform.”

Any US or Canadian resident is eligible for the SolidWorks Engineering Stimulus Package, which 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) throughout the United States and Canada;
- Networking: Access to the SolidWorks Customer Portal for support, networking, and discussion; and
- Certification: Free testing to become a [Certified SolidWorks Associate](#) (CSWA), a credential that documents SolidWorks competence and distinguishes job candidates for selective employers.

DS SolidWorks will also expand this program to other geographical regions in coming months.

Individuals will be able to achieve basic proficiency within 90 days and have a fair opportunity to pass a CSWA test. DS SolidWorks offered a similar retraining program in from 2002 to 2007, which attracted more than 16,000 users. To support the new offering, more than half of SolidWorks’ North American VARs have agreed to offer hands-on test drives, and many of them will offer advanced training options as well.

DS SolidWorks CEO Jeff Ray hopes thousands more in Bader’s position take advantage of the program. “Actively developing high-demand skills can help transform your outlook, instill hope, and qualify you for well-paying careers,” Ray said. “Designers and engineers have placed their trust in DS SolidWorks for the last decade, and this is one way we’re doing our part and giving back.”

To participate in or learn more about the SolidWorks Engineering Stimulus Package, visit <http://www.solidworks.com/ESP>.



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## ***ESPRIT CAM by DP Technology Receives Autodesk Inventor 2010 Certification***

7 April 2009

[DP Technology](#) announced that ESPRIT CAM has been certified by the Autodesk Inventor Certified Application Program for Autodesk Inventor 2010 software.

The Autodesk Inventor 2010 product line is the foundation of the Autodesk solution for Digital Prototyping. Autodesk Inventor produces an accurate 3D model that enables users to validate the form, fit and function of a design before physically building it.

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“We have certified that ESPRIT, because of its interoperability and overall quality, meets the high standards established by Autodesk,” said Brenda Discher, vice president of industry marketing for the Manufacturing Industry Group at Autodesk. “A benefit of the FX technology in ESPRIT is that it allows Autodesk Inventor users to see the Inventor history tree — giving them associativity between Inventor and ESPRIT.”

In ESPRIT, the ESPRIT FXT™ feature tree, which has been upgraded and now includes better rendering and visualization options, now supports multiple CAD models and assemblies. The new associative technology introduced in ESPRIT 2009 is also fully integrated into the ESPRIT FX feature tree, linking design features built inside the CAD system with manufacturing features built inside ESPRIT.

With ESPRIT, users are able to open native Autodesk Inventor files, thereby ensuring a high-quality, seamless transition from CAD to CAM software that’s built to maintain the integrity of any design. The ease of interoperability between ESPRIT and Autodesk Inventor paves the way for accurate data transfers that ultimately translate to accuracy and ease in manufacturing.

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### ***FISHER/UNITECH Announces “No Engineer Left Behind” Extension and SolidWorks® Engineering Stimulus Program***

6 April 2009

FISHER/UNITECH announced an extension of its very successful No Engineer Left Behind retraining program. This professional development program, launched in January 2009, is aimed at helping displaced engineers and designers re-enter the marketplace with a more competitive posture. No Engineer Left Behind offers candidates the opportunity to gain industry skills via a three-step process: attend a three-day Introduction to SolidWorks course, receive an evaluation copy of SolidWorks 2009 Office Premium 3D CAD software for skill enhancement and potentially be placed at a FISHER/UNITECH customer site for an unpaid 30-day internship. To date over 120 unemployed engineers have taken advantage of this program, with one graduate finding permanent placement due to the internship component.

“I want to thank everyone from FISHER/UNITECH involved in the No Engineer Left Behind program,” said Scott Mordaunt, a participant in a course in Cleveland, OH. “This has been a once in a lifetime experience, like a dream come true.”

“I cannot thank FISHER/UNITECH enough for the free training,” said Lester Lakey, a participant in Indianapolis, IN. “The No Engineer Left Behind program is a great example of grass-roots economic stimulus. You have my vote for company of the year.”

FISHER/UNITECH’s program was also featured on WDTN Channel 2 News in Dayton, OH. The video clip can be seen on You Tube at <http://www.youtube.com/watch?v=h3hd2UevtVl>.

Displaced engineers in the state of Indiana have even more of an advantage; FISHER/UNITECH provides over 25 training courses that are paid for by the state through the Workforce Investment Act (WIA.) Job seekers who qualify for training through WIA receive a voucher that can be redeemed at FISHER/UNITECH to obtain needed SolidWorks, Simulation and Enterprise PDM training for their occupational skill.

No Engineer Left Behind is a free service available to displaced workers in Michigan, Ohio, Indiana, Kentucky, Illinois, Wisconsin, Missouri, and Kansas. Online registration is available on the company’s

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website at <http://www.funtech.com/s.nl/sc.8/category.2476/ctype.SS/SS.2476/f>. Acceptance into the program is on a first-come, first-served basis, and candidates must meet the qualifications of being displaced within the previous 12 months from a position where they were using either 2D or 3D CAD tools.

## **SolidWorks Engineering Stimulus Program**

FISHER/UNITECH is a participant in the SolidWorks Engineering Stimulus Program, also announced today, which offers:

- A free, downloadable version of SolidWorks Standard 2009 and SolidWorks eDrawings
- Online documentation
- Access to video training from SolidProfessor
- A discounted CSWA exam

FISHER/UNITECH is scheduling one complimentary three-hour SolidWorks Engineering Stimulus course in each of its 11 branch locations throughout the Midwest. Hands-on courses begin in April and are scheduled throughout the remainder of 2009. Please visit the company's website to learn more and register for a course at: <http://www.funtech.com/Events/SolidWorks-Engineering-Stimulus>.

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## ***Magma Congratulates Winners of MUSIC Silicon Valley 'Best Paper' Awards - ECO Methodology in an Integrated RTL-to-GDSII Flow, Clock Tree Synthesis and Physical Verification among Popular Topics***

8 April 2009

Magma® Design Automation Inc. announced the "Best Paper" winners for MUSIC (Magma Users Summit on Integrated Circuits) Silicon Valley, held April 2.

The top paper award went to John Chu of IDT for his paper titled "A Civilized Post-Mask ECO Flow." The second place award went to Yash Vyavaharkar of Texas Instruments for his paper titled "Robust and Customized Clock Tree Synthesis Using Talus® Vortex." Third place went to Sudhir Agarwal of NVIDIA for "Deployment of a New Physical Verification Product."

The winners were selected by conference attendees and the MUSIC Technical Program Committee from the field of papers presented by Magma users at top-tier technology companies, including ARM, Broadcom, Cisco, IDT, NVIDIA and Texas Instruments.

"Designers are facing enormous technical and turnaround time challenges," said MUSIC Chairman Dr. Uming Ko, who is senior fellow, director of the Worldwide Chip Technology Center, Wireless Terminals Business Unit, Semiconductor Group of Texas Instruments. "The papers presented at MUSIC Silicon Valley provided useful information and practical tips about how to solve these challenges. Having the opportunity to meet face to face with peers and share experiences is truly invaluable."

Magma users who missed the conference can access the MUSIC papers and presentations via MOLTEN, [Magma's](#) online technical support. Two more MUSIC conferences are coming up April 9 in Shanghai, China and April 16 in Bangalore, India. For more information, visit <http://www.magma-da.com/MUSIC>.



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## ***Matrix Joins Arena Partner Community as Exclusive Reseller for Oceania***

9 April 2009

Arena Solutions named Matrix Applied Computing as its exclusive reseller for Oceania—Australia and New Zealand—to better respond to the region’s growing demand for Arena products and services. Matrix will be the sole company in Oceania to market, sell, implement and service Arena, building from an existing Arena customer base that includes Navman Wireless, a leading navigation device manufacturer, among other progressive manufacturers. The Arena-Matrix partnership will enable even more of the region’s manufacturers to support their operations teams by adopting Arena to help them get their products to market in line with time, cost, regulatory and quality expectations.

Despite the global economic downturn, Arena Solutions continues to be in great demand internationally, as demonstrated by more than doubling its international customer base over the last calendar year. Responding to customer need for its low-risk, rapid-return solution for collaborative bill of materials (BOM) and change management software, the company is taking steps to build a highly knowledgeable reseller channel to expand its footprint internationally. Underserved international markets with a high concentration of small and mid-size high-tech, medical device and/or clean energy companies will be the first served by exclusive Arena reseller arrangements. Arena expects subsequent reseller relationships to be established in Israel, Scandinavia and Continental Europe, among other international locations.

Matrix Applied Computing has worked with companies throughout Australia, New Zealand and the Asia-Pacific region, helping them innovate and compete more effectively in global markets for more than 20 years. By selling and implementing Arena—and showing how it can positively improve people’s jobs and the process of bringing products to market—Matrix will be supporting its customers’ operations professionals, supply chain and manufacturing leaders and other key team members like document control, product and program managers. With deep domain experience in engineering design and manufacturing process improvements, Matrix will help companies abandon manual product development processes and take advantage of the enterprise-class functionality of Arena.

“Companies like Matrix offer the best of both worlds,” said Craig Livingston, chief executive officer of Arena Solutions. “Deep expertise in manufacturing and product lifecycle management combined with an intimate knowledge of the challenges unique to Oceania. We look forward to leveraging our partnership with Matrix to deliver a much broader suite of full-service solutions for the growing base of manufacturers in the region enjoying the benefits of Arena.”

Matrix will be offering the full range of Arena solutions and implementation services in the region, backed by Arena Solutions in the United States. Oceania-based companies can contact Matrix Applied Computing at <http://www.matrix.co.nz> or contact Jim Culberson, managing director of Matrix, at +64-275-906488 or [jim.culberson@matrix.co.nz](mailto:jim.culberson@matrix.co.nz).

For more information on Arena Solutions partner programs, please go to:

<http://www.arenasolutions.com/partners>.

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## ***Schott Systeme Enhance CAM Feature Recognition***

7 April 2009

German CAD/CAM developer Schott Systeme GmbH has announced the launch of an online video demonstration, to help highlight the importance of their latest freeform feature recognition tools.

Designed specifically with mold and model makers in mind, these tools help overcome the limitations of current CAM feature recognition packages, whereby only prismatic items such as pockets and holes are extracted from a model. Instead, Schott Systeme's CAD/CAM solution 'Pictures by PC' is able to examine and extract geometry to machine of a far higher complexity.

To supplement these new tools, and to help machinists better understand some of these new capabilities, Schott Systeme has in addition published an online video demonstration for download at

<http://www.schott-systeme.com/en/new3dmillvideo-en.htm>

### **Preparing complex models for machining**

By first combining these enhanced recognition tools with the software's latest surface modelling capabilities, users are able to prepare models for machining in a greatly reduced timeframe. Citing moldtool design as a typical example, Schott Systeme explain that all freeform holes on a model, such as those created to house ejector pins, can automatically be covered in a single click, preventing tooling during finishing operations from wanting to plunge into the holes. Complex features such as the slots created by electrodes can also be automatically covered using the software's advanced covering functionality, again improving finishing operations, but also removing the need to create complex and time consuming surface patches, as is typically the case with mid range CAD modellers.

### **Selection of complex features to machine**

Ideal for both 3 axis and 5 axis machining, these latest recognition tools help to instantly extract complex features to machine. Characteristic of aerospace components for example, tapered pocket side walls requiring 5 axis 'Swarf Cutting', and freeform chamfers to be finished using 5 axis 'End Mill' techniques, are all features that can be instantly extracted from a 3D CAD model. Helping to identify areas that require rest machining, actual radius surfaces within a given size range are automatically identified and extracted for re-machining. Similar tools enable the selection of 'chained' radius faces so entire freeform filleted features can be chosen in a single click. As is also often the case, freeform models may include numerous planar faces that require the application of normal facing operations, and here Pictures both searches for, and extracts all such surfaces in preparation for machining.

For more information visit <http://www.schott-systeme.com/en/new3dmillvideo-en.htm>

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## ***Sescoi Relocates and Further Expands its Indian Office***

6 April 2009

The continued success of SESCOI in India has made it necessary for the company to move its main offices to the industrial zone of Chinchwad, to be closer to its major customers. This means it can offer them the benefits of new and extensive training facilities, further improving service levels.

The move is of major strategic importance to SESCOI and is a crucial part of the marketing plans for its CAM/CAD, ERP and 3D collaborative viewing software as Chinchwad, in the center of Pune, is a major

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industrial hub and hosts one of the biggest industrial zones in Asia.

The new offices will allow room for growth as more companies across India install SESCOI's products, and will provide an excellent working environment for the company's engineers and software testing experts.

Delegates from over 80 leading Indian companies including Tata Motors, TAL, Bajaj Auto, Sermo ARRK and Minda Valeo, attended the new offices inauguration event which took place on 25th March.

SESCOI's Indian customers have been impressed with the speed with which SESCOI has launched new solutions on the Indian market over the past few months as well as with the major developments in its WorkNC automated CAM/CAD software. 200 engineers attended a seminar on WorkNC G3, a new generation of WorkNC, and the newly launched WorkPLAN Enterprise ERP software, while a further 100 were in attendance for the recent launch of WorkXPlore 3D, SESCOI's high speed viewing, mark-up and analysis software designed to enable collaborative working.

Asian markets are of crucial importance to SESCOI's success. Its Shanghai office, opened in 2007, is growing, boasting leading manufacturers including Shanghai General Motors and the Shanghai Koito Automotive Lamp Company amongst its customers, while in Japan WorkNC was the most used CAM system in an independent annual survey for three years running and is used by companies such as RYOBI and Ogihara.

In India, the current economic downturn has actually increased interest in SESCOI's MyWorkPLAN and WorkPLAN Enterprise ERP systems, from tool room owners quick to realize the top and bottom line benefits which can be derived from implementing specialized custom manufacturing software to professionalize their job management processes and save costs.

The new Indian office, along with the branch offices in Bangalore, Ludhiana North Delhi, Nashik and Hyderabad will enable SESCOI to provide the resources necessary to meet the expected growth in demand for its suite of software.

SESCOI India's contact details are as follows:

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## ***Siemens PLM Software Recognized as a PLM Leader and Number One in cPDM and Digital Manufacturing Market Presence according to Leading PLM Industry Consulting and Research Firm CIMdata***

7 April 2009

[Siemens PLM Software](#) announced that in the recently released market analysis, leading PLM industry consulting and research firm [CIMdata, Inc.](#) recognized Siemens PLM Software as a PLM leader and as the vendor with the top market presence in the collaborative Product Definition management (cPDM) and Digital Manufacturing market segment, which, according to CIMdata, are important sub-segments within the PLM industry.

This in-depth data and analysis of the PLM market was released in March 2009 and builds on information presented by CIMdata in their 2008 PLM Market Analysis Report released last year. Based on market estimates, the CIMdata analysis ranked Siemens PLM Software number one in terms of market presence for both cPDM and Digital Manufacturing among the PLM Mindshare Leaders in 2008. The market presence achievement also signals the health and growth of the Siemens PLM Software Partner Program. 2008 was also the fourth year in a row they have been the cPDM market presence leaders.

“With its [Teamcenter](#)® and [Tecnomatix](#)® software solutions, Siemens PLM Software continues to be the market presence revenue leader in these important segments,” said Ed Miller, president of CIMdata. “Siemens PLM Software’s Teamcenter solution remains the cornerstone of their PLM and cPDM strength and their Tecnomatix solution is continuing to demonstrate solid growth as manufacturers use this solution to find efficiencies on the shop floor, helping them save time and money.”

According to CIMdata, cPDM is forecast to continue being the fastest-growing segment of the PLM market with an 8.6 percent compound annual growth rate (CAGR) to exceed \$12 billion in 2013 – leading both the Tools and Digital Manufacturing segments in growth. CIMdata estimates that the Comprehensive PLM market as a whole will grow at a CAGR of 6.3 percent to approximately \$35 billion by 2013.

“For the seventh year in a row, our cPDM presence far outpaced that of the nearest PLM vendor,” said Dave Shirk, executive vice president, Global Marketing, Siemens PLM Software. “Our Teamcenter launch later this year will only add to the excitement around our cPDM innovation. Our partners’ success is an indicator of the success of our open business strategy and ability to form strategic, beneficial partnerships with multiple major systems integrators and software vendors.

“Our industry-leading Tecnomatix software continues to provide the flexibility and productivity our customers need in order to compete and has proven to be a very strong segment in the PLM market overall. We remain committed to helping our customers ‘build the product right’ in order to win in today’s environment.”

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## ***Tata Technologies Brand Launches Internationally***

7 April 2009

# CIMdata PLM Industry Summary

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Tata Technologies Limited, a global leader in Engineering Services Outsourcing (ESO), Product Development IT services, and Product Lifecycle Management (PLM) this week announced the launch of its brand worldwide, and the retirement of the brand names of its former operating companies, INCAT and iKnowledge Solutions (iKS). The global consolidation of the company has yielded an all-new organization that incorporates the best of its former operating companies.

“We are today an integrated global company. We have demonstrated the value that integrated global delivery brings to our clients, employees and shareholders. Now, with the heightened awareness of, and the high regard for, the Tata brand worldwide, we should take this opportunity to unify under the power of the global brand to further grow the organization,” said Patrick McGoldrick, CEO – Tata Technologies.

“The Tata Technologies brand gives us an enhanced opportunity to establish our position as a world-leading partner to the global manufacturing industry, leveraging the Tata reputation for excellence and integrity,” added Warren Harris, President and COO – Tata Technologies.

“This represents the culmination of an evolutionary process begun more than four years ago,” Harris explained. “The launch of this new organization provides us with limitless opportunities and provides us economies of scale otherwise unavailable to us.”

The new Tata Technologies is organized under a global structure, divided into two go-to-market divisions: Global Services, headed by Samir Yajnik, President – Global Services; and Product Lifecycle Management (PLM) Solutions, headed by David Myers, President PLM Solutions. The company also operates with a single globally integrated delivery organization led by Kevin Fisher, Head of Delivery Operations and T Rajasekaran, Head of Delivery Process and Quality.

INCAT and iKS became members of the Tata Group when they were acquired by Tata Technologies Limited in 2005. Since that acquisition, the companies operated under their respective brands worldwide. INCAT was a global ESO provider and a world leader in PLM services delivery. iKS was a pioneering provider of knowledge management solutions and was best known for i get it®. All products and services of INCAT and iKS are now available through Tata Technologies

## **Part of the Tata prestigious group**

Tata Technologies is a part of the Tata group, a growing business group based in India with significant international operations. Revenues of the group in 2007-08 are estimated at \$62.5 billion, of which 61 percent is from business outside India. The group employs about 350,000 people worldwide. The Tata name has been respected in India for more than 140 years for its adherence to strong values and business ethics.

The global launch of the Tata Technologies was marked with employee celebrations at Tata Technologies facilities worldwide throughout the week of March 30, beginning with its North American headquarters facility in metro Detroit on that date and continuing with celebrations throughout Europe, and culminating with an event hosting nearly 1,500 employees at the company’s Center for Advanced Engineering and Design in Pune, India on April 3.

To coincide with the brand launch, the company is launching an all-new Web site, <http://www.tatatechnologies.com> that presents the full scope of the organization’s capabilities.

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# CIMdata PLM Industry Summary

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## ***3DVision Technologies to Launch Engineering Stimulus Program***

6 April 2009

3DVision Technologies Corp., a value-added reseller (VAR) of mainstream CAD, CAE, and PDM software serving the Great Lakes region, in partnership with Dassault Systèmes SolidWorks Corp. is announced the launch of a 2009 Engineering Stimulus Program.

Beginning April 6, 2009, SolidWorks Corp. will offer unemployed engineers and designers a free, downloadable version of SolidWorks Standard 2009 and SolidWorks eDrawings for a period of 90 days. During this time, individuals are encouraged to access online documentation and free video training to improve their CAD skills for potential employers.

Upon launch, 3DVision Technologies will be offering free SolidWorks Essentials classroom training to assist these same individuals as they work to better their CAD skills. Availability of these classes is on a first-come, first-served approach and requires individuals to first fill out an application available through this link: [http://www.surveymonkey.com/s.aspx?sm=p4dIDUwNbjI9O6FBxbKbJQ\\_3d\\_3d](http://www.surveymonkey.com/s.aspx?sm=p4dIDUwNbjI9O6FBxbKbJQ_3d_3d)

Applications for 3DVision's program will be accepted through June 30, 2009 with class availability ending September 30, 2009. For more information on the deadlines and requirements please visit <http://www.3dvision.com> or contact Carrie Cavanaugh at [ccavanaugh@3dvision.com](mailto:ccavanaugh@3dvision.com).

To obtain a copy of the SolidWorks Engineering Stimulus Package™ please visit <http://www.solidworks.com/ESP>

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## ***Transfer Joins Aras Partner Program***

7 April 2009

[Aras](#)® announced that Transfer BV, a provider of solutions for electronic design automation and product lifecycle management [PLM] software solutions in Belgium, The Netherlands, and Luxemburg, has joined the Aras Partner Program.

Transfer, based in The Netherlands specializes in Electronic Design Automation (EDA) software and services with expertise to provide comprehensive PLM solutions for enterprises.

“We are proud to be members of the Aras corporate community, and look forward to working with companies throughout Europe on best practices in EDA and the Aras PLM software,” said Peter de Ruyter, managing director at Transfer. “The Aras enterprise open source software solution offers a significant advancement in PLM because the system provides a new level of flexibility to deploy quickly for complicated electronic design processes.”

“We are glad that [Transfer](#) has joined the Aras partner program,” said Martin Allemann, Vice President EMEA for Aras. “Transfer’s specific expertise in EDA software and complex electronic design practices in PLM provides a new expert resource for corporate community members in high tech, electronics, and semiconductors.”

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# CIMdata PLM Industry Summary

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## ***VX CAD/CAM and TraceParts Partner to Deliver Over 100 million Free 3D Native Models to VX User Community***

7 April 2009

VX Corporation and TraceParts announced the immediate availability of a free exclusive online parts library, directly accessible from the VX user interface. Thanks to this strong partnership, thousands of VX users worldwide will now have instant access to native 3D models coming from leading parts suppliers' catalogs including Advantech, Asco Numatics, Bosch Rexroth, Cepex, CGI, Facom, Festo, IFM, Igus, INA/FAG, Legris, Mädler, Misumi, Norelem, Nozag, Roubourdin, Rud, Schmersal, Schmalz, Schneider Electric, Sherex, SNR, Telemecanique, Zimm, and more.

[VX](#) users can launch the specific TraceParts online library by using a menu inside the new 2009 version of VX CAD/CAM. They can then directly browse one specific catalog or use a search engine for cross-catalogs searches based on the dimensions or other technical properties of the part they need. After selecting a part, the user has access to a real-time 3D preview and a summary of all its Bill of Materials (BoM) attributes. The last step is to select the VX native format and put the part inside the caddy, allowing users to get several parts at once. Users can then either directly download the VX 3D models or receive them by email.

“The extensive library of TraceParts’ online catalogs will bring incredible productivity benefits to the extended VX user community,” says Mark Vorwaller, VX Co-Founder, President & CEO. “Quick and easy access to accurate and up-to-date off-the-shelf components is critical for design and manufacturing engineers because it allows them to concentrate on adding immediate value to their company’s products. That’s really a key issue in today’s challenging economy.”

“We are extremely pleased to partner with VX because they have always been a technology pioneer in the CAD/CAM industry,” explains Gabriel Guigue, Managing Director of [TraceParts](#). “Independent surveys show that over 70% of CAD models that a mechanical designer adds to its parts list are actually purchased. It is therefore critical for parts vendors to get additional product exposure from this new TraceParts/VX Online Library.”

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## Events News

### ***Bluebeam CEO and V.P. of Engineering to Speak at CONSTRUCT2009***

6 April 2009

Bluebeam Software CEO, Richard Lee, and VP of Engineering, Don Jacob, will present an educational session titled “Three Steps for Successfully Implementing a Paperless Workflow” at the upcoming CONSTRUCT2009 Conference. CONSTRUCT2009, an annual conference and trade show for the commercial building industry, will be held June 16-19 at the Indianapolis Convention Center in Indianapolis, IN.

The hour-long educational session is scheduled for June 18 at 4pm and will provide valuable information about going paperless with PDF. The session will specifically address how sharing, reviewing and editing PDFs helps architecture, engineering and construction firms eliminate paper from building design reviews, bids, construction submittals and other workflows. In addition to discussing best practices for using PDF, Lee and Jacob will share case studies detailing paper and costs savings

# CIMdata PLM Industry Summary

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achieved by construction firms that have implemented this process, and provide attendees with action steps to help them achieve similar results.

“We are looking forward to sharing our experiences with paperless workflows with CONSTRUCT2009 attendees,” said Richard Lee, CEO of Bluebeam Software. “After several years of working with leading design, engineering and construction firms, we’ve gathered a wealth of knowledge on how to benefit from PDF. We’re excited to share this information and demonstrate how their firms can put PDF to work, instantly achieving paper and costs savings.”

Registration for CONSTRUCT2009 is now open and can be accessed [here](#).

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## ***CD-adapco Announces Expanded STAR American Conference Program***

9 April 2009

CD-adapco announced a significant expansion of the 2009 STAR American Conference program. Following the record breaking attendance at the 2008 STAR American Conference, and demand for CD-adapco’s flagship STAR-CCM+ software package, CD-adapco will be holding four STAR American Conferences in 2009, each focused on a specific industry sector:

STAR Global Forum: Simulation for Energy Engineering – Houston, TX, June 23-24

STAR Global Aerospace Forum – Southern CA, September 1-2

STAR Global Marine Forum – Southern CA, September 1-2

STAR Global Transport Forum – Detroit MI, November 2009

Bill Clark, CD-adapco's Senior VP of Operations explains: "The combination of our continued rapid business growth with the overwhelming response to our 2008 Conference means that we have simply outgrown a single STAR American Conference. By focusing on a specific industry sector in each of the four conferences, we hope to be able to fully explore the tangible business benefits that can be gained from adopting an automated approach to engineering simulation in that industry.”

Each conference will explore in detail the many benefits of deploying Automation in your CAE process, with reference to industrially relevant examples and case-studies:

- Simulation of the entire design space, not just a few selective points.
- Reduction in user error and associated run-time costs.
- Ensure workflow consistency amongst global engineering teams
- Spend more time innovating and less time modeling.

In a packed agenda, attendees will:

- Learn about the latest simulation techniques from expert CD-adapco staff and experienced users from around the World.
- Network with other CAE users and Industry Experts and hear how they employ CD-adapco software to gain a competitive industrial advantage, and learn how you can do the same.
- Experience our latest CAE technology with seminars and hands on demonstrations.



# CIMdata PLM Industry Summary

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- Listen to presentations from industrial partners, describing new and innovative applications of CAE technology
- Meet the people behind the software, from CD-adapco Management, Software Developers to Support Engineers
- Feedback your experiences of our software and services to us

To register your interest in any of the conferences please email:

info@us.cd-adapco.com or visit:

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

For more information on CD-adapco conferences, webinars, seminars and events please visit:

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

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## ***Cimatron to Display Dental CAD/CAM Capabilities at MEDTEC***

7 April 2009

[Cimatron Limited](#) announced that CimatronE will be showcased at MEDTEC trade show in Japan on April 7-8th 2009.

In the booth of Saeilo Japan, CimatronE's Japan distributor, a dental part will be scanned into CimatronE using a Roland Laser Scanner LPX-DS Series. CimatronE will automatically generate the toolpath and a part will then be milled using the Roland MDX-40 3D milling machine.

CimatronE users worldwide use the software to shorten delivery time of high precision medical and dental parts. CimatronE is a technology covering the entire process of creating a wide range of prosthetics and orthotics including knee and hip joints, plastic medical equipment, dental implants and more.

In addition, CimatronE users cut a wide range of materials confidently including Titanium, aluminum alloys and a wide range of materials used in dental implants, crowns and bridges.

CimatronE is a fully integrated CAD/CAM suite allowing users to handle the entire process from reading scanned data and adapting it for manufacturing to NC programming - all in the same environment.

"Under the current economic conditions, many manufacturing companies are expanding their operations to target the medical industry," said Mr. Kobi Rosenwasser, Cimatron's Vice President Asia Pacific.

"CimatronE has proven experience in the global medical industry. We have been pioneers in 3-5 Axis Micro Milling and have an extensive experience in High Speed Milling and cutting of special materials."

Version 9.0 of CimatronE will be on display at MEDTEC and will be available to customers later this year.

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## ***COADE Discovery Tour on April 21st in Madrid to Feature CADWorx Plant Design Suite***

7 April 2009

# CIMdata PLM Industry Summary

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COADE announced that the next COADE Discovery Tour event featuring the CADWorx Plant Design Suite will be held on April 21, 2009, in Madrid, Spain, organized in conjunction with [Genin & Garces](#), COADE's dealer in the region. This educational session will feature the latest capabilities of the company's CADWorx Plant Design Suite and include introductions to CADWorx P&ID, CADWorx fieldPipe and CADWorx fieldPipe for CloudWorx.

COADE Discovery Tour events held in 2008 in the USA, Europe, Australia, Asia, Mexico, Africa, the Middle East, and South America attracted record numbers of plant designers and engineers. "The excellent attendance we saw at these events confirmed the growing popularity of CADWorx Plant Design Suite as the future of plant design in the global market," explained Paulo Moncores, the business development chief for Latin America, Portugal and Spain at COADE. "We know that plant designers and engineers in these markets want to see these plant design tools in person and learn how they will help them improve productivity, eliminate errors and waste, and produce quality deliverables in substantially less time."

Upcoming COADE Discovery Tour events featuring CADWorx Plant Design Suite are scheduled for April 23rd in Barcelona, Spain; April 28th in Santa Cruz, Bolivia; April 30th in Trinidad and Tobago; May 12th in Buenos Aires; and May 14th in Bahia Blanca, Argentina. Details and registration are available at COADE's website, [www.coade.com](http://www.coade.com).

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## ***Delcam Offers Head to Toe CAD/CAM Solutions at MEDTEC France***

6 April 2009

Delcam France will show its latest CAD/CAM solutions for the dental and orthotics industries at the MEDTEC France exhibition to be held in Besancon on 22nd and 23rd April. As well as demonstrating these customised solutions, the company will also show how its range of design, reverse engineering, machining and inspection software can be used to reduce costs and improve patient outcomes across many other areas of the medical industry.

For the dental industry, Delcam offers DentCAD, for the fast, reliable creation of dental restorations, including copings, crowns and bridge frameworks, and DentMILL, a knowledge-based machining system for the manufacture of components.

While the two programs can be used together to provide a complete design and manufacturing system, both DentCAD and DentMILL are completely 'open' and so can be used with software and hardware from other companies. For example, DentCAD accepts data from any scanner capable of exporting data in the STL format used widely within the dental industry. Similarly, DentMILL can output machining toolpaths to virtually any CNC machine.

The key benefit of both programs is that they are easy to use and so are suited both for dental technicians with existing CAD knowledge and those that have no previous experience of computer-aided design. The whole process is based on a series of "Wizards" that guide the user through the entire design and manufacturing process.

A wide range of visualisation and analysis tools are available at every stage, including sectioning, measuring, shading and transparency options that allow detailed inspection of the shape being developed. This ensures that the results are exactly those required by the patient.

All the functionality in DentMILL is based on Delcam's PowerMILL CAM system. The latest additions

# CIMdata PLM Industry Summary

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to the software are new five-axis options. These strategies are particularly important for abutment manufacture as these components are difficult to produce with three-axis machining. The five-axis functionality can reduce material wastage when producing copings and bridges, and can also be used to machine parts containing undercuts.

Delcam also offers equivalent programs for the design and manufacture of orthotic insoles, OrthoModel and OrthoMill, respectively. The combined programs provide a complete solution for the production of high-quality insoles for both the comfort and medical markets. Again, the entire process is driven by a series of easy-to-use menus, which incorporate the terminology used by the industry to describe the various features of the orthotic. This makes it easy for medical and footwear professionals to use, even those having no previous CAD/CAM experience.

Although many customers are expected to use both OrthoModel and OrthoMill, the two programs are also completely “open”. OrthoModel can take data from any scanning system or use manual measurements, while OrthoMill can take models from most CAD systems and output machining instructions to any milling machine.

The latest additions to the program include a new method for creating “foot-positive” models. This allows patterns to be designed directly from scan data taken from the patient’s foot to create foot orthotics in a variety of materials, including carbon fibre.

A new “cast-dressing” option allows the user to apply corrections directly on the scan of a patient’s foot when designing orthotics. This process duplicates on the computer the modifications made to the cast by adding or subtracting plaster using traditional methods. In a related development, the scan and the orthotic can now be overlaid and viewed together, so that the extent of the changes can be seen easily.

Using OrthoModel and OrthoMill reduces the time needed to prepare orthotics so giving the faster turn-around times that customers demand. In addition, the use of computer-based design and manufacturing techniques brings the benefits of accuracy and quality to the orthotics industry that are already enjoyed by other areas of footwear manufacture.

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## ***Mastercam Showcasing Major New Developments at Eastec 2009***

March 2009

Eastec 2009 features the unveiling of two major developments in CNC Software’s Mastercam CAD/CAM software. Attendees will get the first look at Mastercam’s latest CAD/CAM software, Mastercam X4, as well as the new Mastercam® for SolidWorks® product. Both will be showcased in booth #5245 at the Big E Fairgrounds, West Springfield, MA, on May 19-21.

### **Mastercam X4**

Due out in second quarter of 2009, Mastercam X4 brings users a suite of new toolpaths, Multi-threading ability, and much more.

**Dynamic Machining** – This new machining technique gives you the ability to utilize the entire flute length of the cutting tool, saving both time and money. Dynamic machining offers flexible retract options to keep the tool down in smaller parts, and rapid retract on larger parts.

**Multi-threading** – Mastercam Mill delivers multi-threading support, dividing complex tasks in a multi-core computer, and delivering faster processing and other benefits. Users have the option to turn this on

or off. When used in a single-core environment, Multi-threading allows users to multi-task, prioritize running and pending tasks, and monitor the progress of toolpath calculation, which increases productivity.

Other X4 features include:

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

## **Mastercam for SolidWorks**

[Mastercam](#) for SolidWorks is fully integrated CAM that runs in SolidWorks. SolidWorks users can now program their parts directly within SolidWorks using Mastercam's toolpaths and machining strategies.

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

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## ***Share-A-space® Support for Design Analysis on Display at CFMS Open Event***

6 April 2009

The CFMS core programme will be holding this year's CFMS open event at the Microsoft Campus, Thames Valley Park, Reading, UK on the 27th-28th April. Those organizations participating in CFMS will be able to get an update on the latest results across the programme on the first day with the second day devoted to a public event showing the latest in CFMS based integration. Eurostep is delighted to be able to announce that it will be showcasing the Verification & Validation Knowledge base and the PDAI pilot developed for CFMS during those two days.

The Verification & Validation Knowledge base uses Share-A-space® to allow different organizations to group elements of product structure and analysis results together as test cases that can be separately versioned. The approach also allows engineers to manage and share tests whilst maintaining the links back to the applications originating their data so improving information re-use and shortening the time for design analysis.

The Product Data Assurance Infrastructure (PDAI) work within CFMS has piloted a service-oriented infrastructure that can provide assurances for the protection of IPR and facilitate the exchange of product data. Share-A-space® has been used to provide the information backbone and been interfaced to other CFMS tools that model the risk and dynamically define secure access to the information.

## **About CFMS:**

The CFMS Core Programme is a £16M UK project for advancing CFD R&D jointly funded by the UK

# CIMdata PLM Industry Summary

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Technology Strategy Board and the industry partners involved. CFMS has completed two of its three years as a project and involves AgustaWestland Helicopters Ltd, Airbus, Aircraft Research Association, BAE Systems, BMT Fluid Mechanics, ClearSpeed Technology, Concurrent Thinking, Eurostep, Frazer-Nash Consultancy, IT Innovation, MBDA, Microsoft UK, PCA Engineers, QinetiQ, Quadrics, Rolls-Royce and Williams Grand Prix Engineering.

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## ***STAR-Distant Learning: Learn CFD Code from the Comfort of Your Desk***

3 April 2009

STAR-Distant Learning is CD-adapco's new internet based remote learning service that enables one to learn CFD technology without leaving one's office location.

This course will focus on CD-adapco's STAR-CCM+ foundation, and advanced Computational Engineering classes that are regularly scheduled each month, and will be broadcast live from their Detroit offices. Attending this web-based session will provide engineers the opportunity to understand the fundamentals of fluid flow modeling through the STAR-CCM+ interface, or, in the advanced Computational Engineering Classes, learn how STAR-CCM+ is applied to real engineering processes with demonstrated examples. Attendees will be able to view and listen, live, to the CD-adapco training engineer while following tutorial notes in a presentation format on their own computer.

A STAR-CCM+ license will also be provided to all remote based registrants in order that trainees can follow the steps in the real software guided by the training engineer. Students may also pose questions interactively to the trainer during the class. The training session will be broadcast through Web-Ex™ and trainees should have access to high speed internet connection and a Microsoft Windows™ based environment for the sessions.

The following classes are available on STAR-Distant Learning

- Introductory and Advanced STAR-CCM+ courses
- Engineering Process Automation through JAVA Scripting
- Virtual Tow Tank - Computational Simulation Training for Naval Architects & Marine Engineers
- CFD Simulation of Rigid Body Motion for Engineering Analysis
- Effective Heat Transfer Modeling
- Powerplant and Engine Compartment Thermal Modeling

For more information on STAR-Distant Learning, please contact Lauren Wright. To find out more about all of our training offerings please visit <http://www.cd-adapco.com/training/index.html>.

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## ***Zuken at the 2009 Hanover Trade Fair***

9 April 2009

Zuken's "Electrical Engineering", "Fluid", "Electronics" and "PLM" portfolio of products provides the ideal integrated environment required for the development of electrical and electronic systems for all types of end products.

# CIMdata PLM Industry Summary

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With over 30 years of global experience and a solid financial basis, Zuken's position is firmly established on the market. A standardised presence for all our corporate divisions strengthens this position further. For this reason, our subsidiary CIM-Team, which we took over at the time of the 2006 Hanover Trade Fair, became Zuken E3 GmbH on April 1, 2009.

Zuken is presenting and demonstrating the following technologies at 2009 Hanover Trade Fair:

## [E<sup>3</sup>.series](#)

A particular highlight is the new E<sup>3</sup>.series 2009 version, which is the first E-CAD system in electrical engineering to support hierarchical design. This technology opens up completely new possibilities in the field of electrical engineering, facilitating top-down or bottom-up design philosophies, innovative structuring options and the representation of differing levels of detail. In total, E<sup>3</sup>.series 2009 boasts over 100 new functions across all of the E<sup>3</sup>.series modules.

## [CR-5000](#)

Our CR-5000 design platform offers modules and functions for electronics development. From high-speed design to complete MCAD integration, CR-5000 reliably guides users through the entire process from the initial draft to final production.

## [CADSTAR](#)

The new version 11 of our CADSTAR PCB design solution built especially for small and medium-sized development teams offers enhanced features for system design at schematic, PCB and FPGA level – from PCB layout, high-speed design, signal integrity, analysis, 3D and production right through to comprehensive data management features. It also offers libraries accessible via the Internet that contain more than 200,000 components.

## [DS2 and E<sup>3</sup>.ePLM](#)

DS2 and E<sup>3</sup>.ePLM provide modular and scalable solutions for electronic and electrical engineering product data management with functions for schematic capture, layout, cabling, wire harness design, control cabinets and PCBs as well as pneumatic and hydraulic designs.

Zuken's presence at 2009 Hanover Trade Fair demonstrates our commitment to providing customers with products which enable faster, more structured and more consistent application from development to production.

Visit us at Stand E58, Hall 17.

More information and how to access free tickets for Hanover Trade Fair can be found at [www.zuken.com/Hannovermesse](http://www.zuken.com/Hannovermesse)

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## Financial News

### ***Dassault Systemes Schedules First Quarter Results Webcast and Conference Call for April 30, 2009***

6 April 2009

Dassault Systèmes will host a webcast and a conference call on Thursday, April 30, 2009, to discuss its operating performance for the first quarter ended March 31, 2009.

# CIMdata PLM Industry Summary

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The management of Dassault Systèmes will host the webcast at 8:30 AM London Time - 9:30 AM Paris Time and will then also host the conference call at 9:00 AM New York Time - 2:00 PM London Time - 3:00 PM Paris Time to discuss the Company's operating performance.

Both the webcast and the conference call will be available via the Internet by accessing Dassault Systèmes' website at <http://www.3ds.com/company/finance/>.

Follow the directions on the main page to link to the audio.

Please go to the website at least fifteen minutes prior to the webcast or conference call to register, to download and install any necessary software. The webcast and conference call will be archived for 30 days.

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## Implementation Investments

### ***Alvand Technologies Selects Berkeley Design Automation AFS Nano™***

8 April 2009

[Berkeley Design Automation Inc.](#) announced that Alvand Technologies, Inc. has selected the company's Analog FastSPICE Nano SPICE simulator (AFS Nano) for analog and mixed-signal IP characterization.

"Alvand's high-performance, ultra-low-power analog and mixed-signal IP requires stringent and efficient characterization," said Mansour Keramat, president and CEO at Alvand Technologies, "AFS Nano provides us superior price/performance for block-level design and verification. It consistently delivers true SPICE accurate results up to 10x faster than traditional SPICE on our ADC, DAC, and analog front-end designs."

Analog FastSPICE is a unified circuit verification platform for analog, mixed-signal, and RF design. Always delivering true SPICE accurate results, it provides 5x-10x higher performance than traditional SPICE, >1 million-element capacity, and the industry's only comprehensive noise analysis. The AFS Platform is a single executable that uses advanced algorithms and numerical analysis to 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.

"We are excited that Alvand Technologies has selected AFS Nano for characterization of their high-performance analog and mixed-signal IP," said Ravi Subramanian, president and CEO of Berkeley Design Automation. "Delivering high-speed, ultra-low-power data converters and analog front end solutions is a tremendous challenge. Alvand Technologies' selection of AFS Nano further validates the strong competitive advantage the Analog FastSPICE Platform provides to leading-edge analog/mixed-signal IP designers."

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### ***Aviation Industry Corporation of China Chooses Flowmaster V7 Aerospace to Meet Future Research & Development Targets***

6 April 2009

# CIMdata PLM Industry Summary

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Aviation Industry Corporation of China (AVIC) has chosen [Flowmaster V7 Aerospace](#) to be central to all future aircraft development projects, by investing in 15 new Flowmaster V7 Aerospace licenses.

AVIC has selected Flowmaster Value Added Reseller, Hi-Key Technology Corporation Ltd in China, to deliver Flowmaster V7 Aerospace software, training and support as part of a strategic deal to increase the level of early testing and meet critical research and development targets.

Harry Xuan, the president of Hi-Key Technology said: “We are delighted to receive this order from AVIC. It further proves Flowmaster as the thermal and fluid system simulation software of choice in the Chinese aerospace market. Flowmaster is seen as an important platform for the technological advancement and innovation of China’s fast developing aerospace industry.”

AVIC (Aviation Industry Corporation of China), the largest aviation corporation in China, is a consortium of Chinese aerospace organisations, consisting of nearly 200 companies developing aeroplanes, helicopters, aero engines, flight test and many more.

Hi-Key Technology Corporation Ltd is a leading Professional Engineering Software & Service provider in China specializing in 3D CFD Simulations, 1D Fluid and Thermal System Simulation and Analysis, Acoustics Analysis, Electromagnetism Analysis, Discrete Element Analysis and Test Data Management.

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## ***Baoding Tianwei Wind Power Blade Standardizes on PTC Pro/Engineer for Its Design Platform***

7 April 2009

PTC announced that Baoding Tianwei Wind Power Blade Co., Ltd. (TWPB), a subsidiary of Baoding Tianwei Baobian Electric Co., Ltd., has successfully deployed PTC® Pro/ENGINEER® as its standard platform for fan blade design. TWPB develops, manufactures and provides after-sale services for blades of in-grid wind power units. It currently works with Denmark-based blade mold manufacturer SSP to develop MW-level fan blades.

As the airfoil section of fan blade design is diversified and complex, traditionally it took a long period of time to complete the 3D modeling for fan blades. However, with the surface design features and associativity of Pro/ENGINEER, the system can automatically generate each section according to relevant parameters, and update calculation modules and 3D modeling accordingly. In addition, by allowing different types of data import, Pro/ENGINEER also supports integration with TWPB’s analysis software. With the software and service support from PTC and its channel partner Beijing Link-on Technology Co., Ltd., TWPB has as a result improved its product data accuracy and design efficiency.

“PTC’s 3D, parametric CAD software, Pro/ENGINEER has greatly reduced our workload and shortened new product development time and cost. We are very satisfied with the pre-sale and after sale services and training provided by Beijing Link-on Technology,” said Nie Yongjun, Vice General Manager of Baoding Tianwei Wind Power Blade Co., Ltd. “We look forward to working with PTC and Beijing Link-on Technology to deploy additional PTC solid modeling technologies and relevant solutions.”

The global energy shortage has brought opportunities for the development of new types of energy, and as a result, China's wind power industry is expected to see tremendous growth in the next few years. In 2007, the number of new wind power units globally increased 32.1%, amounting to the capacity of 20.073 million kilowatts. In China, the number climbed by 121% to 2.96 million kilowatts and the total capacity reached 5.56 million kilowatts, an increase of 114%, the highest growth rate in the world. The number of Chinese wind power equipment manufacturers has increased from half a dozen to more than



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50 in the past five years. In addition, the Chinese government has attached great importance to the issue with a number of energy-saving, emission reduction and new energy policies.

“We are very pleased that [TWPB](#) has selected PTC's product, Pro/ENGINEER, as its powerful design features will help TWPB design team to improve product 3D modeling efficiencies, ensure product quality and reduce production time,” said Sin Min Yap, director, product and market strategy, [PTC](#). “PTC is committed to help enterprises such as TWPB use Pro/ENGINEER to achieve their product development objectives and maximize their ROI.”

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## ***Empowered by VX, Modern Industries Helps Machinists Boost Productivity***

8 April 2009

You would think, in today's world of computer numerical control (CNC) milling machines, that producing custom-machined parts would be incredibly fast and easy. But it isn't always so.

“The key problem,” says Ron Bemis, product engineer for Modern Industries, Inc. in Erie, PA, “is setup. The time required to set up for each machining operation can absolutely kill productivity. Fortunately, leveraging the power of VX CAD/CAM, Modern Industries created the mPower™ line of workholding tools. With a precision fixturing and mounting system, modular tooling columns, and indexers, it is now possible for machine shops to slash the time for setup by as much as 80%. That can have a huge impact on productivity and profitability, and VX helps to make it all happen.”

“We originally bought VX two years prior to the mPower project,” Bemis says. “Our toolmakers used – and continue to use – VX to build our fixtures in 3D to make sure there isn't any interference when they do machining or hold the part. It is very helpful to find out about interference ahead of time.”

Bemis says, “When we began to get involved in the mPower project, we had to convert all the original drawings into VX, because the inventor had created the drawings in another CAD package, and it couldn't create CAM programs for machining the parts. VX can do that easily.”

But that was just the beginning of the VX advantage for Modern Industries. “Sometimes customers want a turnkey product. They want everything for a new machine, including fixtures for new parts, and they want it done all at once. VX makes it easy to pull it all together, get it done quickly, and get it done right.”

At other times, customers are adopting the mPower system for the first time and want to make sure that they will still be able to use the fixtures in which they already have considerable investment. Bemis says, “In that case, I use VX to lay out the mPower base plate to make sure the customer's existing fixtures are still compatible. Usually I just need to know the hole pattern in their existing fixtures to design a plate that fits. Sometimes a plate that we already make will do the job.”

“Everyone who has tried the mPower system has fallen in love with it,” Bemis says. “That's because it's a modular system, a bit like Legos™, that fits together so that everything is properly aligned and positioned in the same way every time.”

“mPower has become an ‘ongoing design,’” Bemis says. “When customers need something special, I bring their project into VX, even if it was designed in another system. Then I can quickly browse through the layers of their previous projects and select the components that fit, check for interferences quickly send off a new setup. Thanks to the speed of VX and the versatility of mPower, I can often have

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the work completed for them in a matter of hours.”

Impact on customers has been substantial. For example, previously it took one machine shop a full day to do the setup and change from one machine to another to do the machining for a series of parts. Now, thanks to mPower, the same changeover is accomplished in about an hour. It’s little wonder that mPower customers return again and again with special requests that Modern Industries is happy to fulfill.

Bemis says, “VX has had a substantial positive impact on our business. I love that VX lets me create custom products on the fly for customers as they need them, and it’s easy to confirm they will be right the first time.”

Visit <http://www.vx.com> to learn more, chat online with a representative, schedule a demo or download a free 30-day license.

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### ***Energy Innovations to Drive Down the Cost of Solar Energy with Realistic Simulation from Dassault Systemes***

8 April 2009

Dassault Systemes ([DS](#)) announced that Energy Innovations, Inc., a developer of High Concentration Photovoltaic (HCPV) commercial solar products that maximize the capture of energy from the sun, is making the use of solar energy a more cost-effective and intelligent consumer investment with the help of Abaqus finite element analysis (FEA) software from the DS SIMULIA® brand. Reducing the cost of solar energy is an important factor in encouraging its use and reducing CO2 emissions from electricity generated by fossil fuels.

Energy Innovations’ flagship product line, the Sunflower™ integrates photovoltaic modules, unique power optimization, an embedded controller and wireless communication to produce cost-competitive solar power. It also provides reduced installation and maintenance costs. The technology is the first and only solar concentrator to earn a UL (Underwriters Laboratories) listing. UL is the trusted resource across the globe for product safety certification and compliance solutions. - By using Abaqus FEA to simulate the effects of nonlinear materials and loads such as gravity, wind, and shipping loads on their designs, [Energy Innovations](#) has been able to optimize their concentrating photovoltaic design product.

“Abaqus FEA provides the usability and robustness we need to evaluate realistic performance during the design phase,” stated Mindy Jacobson, Lead Engineer, Energy Innovations. “By leveraging realistic simulation solutions from SIMULIA, we are able to develop the most cost-efficient design, which is helping us drive the price of solar-electricity below the price of fossil-fuel electricity.”

“We are dedicated to providing realistic simulation solutions that enable companies such as Energy Innovations to develop lower cost renewable energy products,” stated Ken Short, VP Strategy and Marketing, [SIMULIA](#), Dassault Systemes. “Abaqus FEA offers proven analysis capabilities that are used to evaluate real-world performance earlier in the development cycle, thereby accelerating the delivery of innovative products that have a positive impact on our environment and society.”

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## ***Hi-Lex Cuts Costs Using Kineo CAM Technology***

7 April 2009

Hi-Lex Controls Inc. and [Kineo CAM](#) announced that Hi-Lex and in particular its Window Regulator Division has adopted Kineo CAM's automatic path planning technology for optimizing assembly process.

Hi-Lex, manufactures Automotive Cables and Closure Products (Door modules, Window Regulators, Power Liftgates, etc) through an extensive international network with advanced R&D capability. Hi-Lex supplies major automakers with solutions to their needs.

[Hi-Lex](#) made the decision to use Kineo path planning technology in 2006 for preparing the installation of window regulators into automotive doors. Kineo technology enables rapid and accurate 3D prototype models to assemble the window regulator through the hole into the door, finding collision free insertion paths in seconds instead of hours. In addition, Kineo technology makes it possible to cost effectively identify and correct issues that were impossible to detect using the old method, which gives Hi-Lex a competitive edge, states Charles Hazel, Design Supervisor in Automotive Division at Hi-Lex.

Using Kineo technology on the digital 3D models has helped Hi-Lex reduce the time required to develop loading simulations from on average one month to two days per program. With the previous process, a mock-up or prototype door and window regulator had to be fabricated and the loading study physically validated. If the regulator did not fit, the prototype had to be modified (cut, glued) or tooling had to be adjusted, costing the company significant resources and time.

Beyond the initial value of Kineo technology, Hi-Lex is also using it to generate simulated installation videos that help customers better understand solutions enabling Hi-Lex to win more business.

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## ***Inditex Group Selects PTC Windchill to Accelerate Interior Design of Its Retail Network***

6 April 2009

[PTC](#) announced that Spanish Inditex Group, a global player in the fashion industry with well-known brands like Zara, Pull & Bear, Massimo Dutti or Bershka, has deployed the PTC® PLM solution Windchill® in its store and furnishing design department based in Arteixo, Spain. Windchill will manage all information related to the building equipment, interior design and furnishing of stores worldwide. Inditex selected Windchill, to speed up the design process by configuring the stores from a predefined set of components and modules and to enhance the reliability of the manufacturing information sent to local providers.

Inditex is comprised of over one hundred companies associated with textile design, manufacturing and distribution. The visual and aesthetic appearance of its retail stores and furnishings is a critical differentiator for the fresh image of its products and brands. Consequently, Inditex has invested heavily in frequent redesigns and renovations carried out by their providers.

“Our architects and interior designers are under constant pressure to deliver project plans and furnishing designs faster to the providers that have to build the stores and supply the furniture,” explains José Froján Resua, chief of Estudio Arquitectura, Zara. “Windchill will help us to reduce design cycle times, to better control the interior design and furnishing of our stores worldwide and to improve our relationship with global suppliers, giving them access to reliable and up-to-date information for

manufacturing.”

During the selection process, Inditex compared Windchill with other vendors’ solutions and selected the PTC software for its open, web-based architecture which allowed a better and faster integration of the company’s existing AutoCAD® solution and other product development applications. In addition, PTC’s implementation partner, DIMEF INGENIERÍA, was able to master their understanding of key Inditex processes and workflows, which allowed them to develop a client solution that met the specific needs of Inditex users.

Windchill will be used by all of the company’s architects and interior designers to link together relevant design data such as project plans, design drawings, manufacturing plans, lists of materials, catalog data, and photos in a structured, streamlined manner. Improved standardization of new furnishing and interior components will allow design groups to configure stores from predefined sets of modules and components and to manage these configurations over their entire lifespan.

Inditex plans to give their partners direct access to the Windchill database. This will facilitate real time communication and reduce errors caused by the use of outdated information. The PDS (Product Development System) will also enhance management of the furnishing catalogues which are revised every year, typically involving thousands of material and color changes.

“Delivering the right information to the right person at the right time is important in any industry but it is vital in the fashion business because of the industry’s short cycle times. Any delay in opening new stores due to incomplete or outdated information means a considerable monetary loss for the company,” explains Kathleen Mitford, VP Product and Market Strategy, PTC. “Inditex’s decision to implement Windchill demonstrates how the flexible PTC Product Development System can adapt to the needs of customers in a wide variety of industries and markets.”

## **About Inditex**

Inditex is one of the world’s largest fashion distributors. It has almost 4.300 stores belonging to its Zara, Pull and Bear, Massimo Dutti, Bershka, Stradivarius, Oysho, Zara Home and Uterqüe concepts in 73 countries. The company employs over 80,000 persons all over the world and the sales in 2007 reached 9,435 million euros. The company is listed on the Madrid stock exchange (IBEX 35: ITX).

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## ***KUKA Systems Applies Dassault Systèmes DELMIA Automation to Plant Engineering***

8 April 2009

Dassault Systèmes ([DS](#)) announced that [KUKA Systems GmbH](#), (Augsburg, Germany) a manufacturer of automation solutions, has committed to the DELMIA Automation solution for virtual commissioning of the production facilities that KUKA plans and builds.

A technology leader in plant and systems engineering, KUKA understands that it is important to invest in new technologies in order to stay ahead of the curve in developing innovative manufacturing process and facility concepts. Next to the geometrical validation it is increasingly important to digitally define, control and monitor automated systems entirely in a 3D virtual environment. This cuts development time, reduces costs in both manpower and capital investment, and increases initial PLC program quality and overall factory productivity.

The DELMIA Virtual Commissioning solution enables manufacturing engineers to link the virtual

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manufacturing model with the actual control system and robot controller. The company can then conduct and evaluate “what if” scenarios to optimize production, allowing to get it right the first time.

When integrating changes within existing plants, the use of DELMIA Automation will help make a significant impact on KUKA’s manufacturing line planning. Any proposed changes are to be explored beforehand in the virtual model of the plants. To do that, it is important to combine actual PLC and robot control with the virtual plant. Actual programs will thus drive the virtual model. “This is the only way to confirm manufacturing system performance prior to system build—by using DELMIA Automation,” emphasizes Günther Mikuta, product manager, Control Technologies, KUKA Systems. “With this solution, we expect substantial efficiency gains for our clients in the future. When re-configuring plants, we will apply this KUKA approach to virtual launch,” adds Dr. Christian Fedrowitz, chief, Technical Data Processing, KUKA Systems. “KUKA will, consequently, achieve an increase in quality while reducing actual production downtime as our solution will eliminate many errors that often occur during system build.”

KUKA’s decision for DELMIA Automation is proof for the fact that the topic of automation-simulation has arrived within the industry. The solution is a natural extension to the Dassault Systèmes PLM offering. While PLM solutions simplify and enhance end-to-end product management, Automation solutions validate and improve the internal behavior of control systems.

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## ***Lockheed Martin Aeronautics Extends Use of Open Text***

7 April 2009

Open Text announced Lockheed Martin Aeronautics Joint-Service Technical Data (JTD) Integrated Product Team (IPT), based in Fort Worth, Texas, extended its use of Open Text's Digital Asset Management (DAM) solution to manage graphics and rich media content for F-35 Lightning II Technical Data. The F-35 Lightning II, or Joint Strike Fighter (JSF), is a DoD multi-service/multi-national effort to create a next-generation stealth fighter plane.

After a rigorous screening and approval process, Innodata Isogen, the technology consulting and integration company behind the design of the JTD IPT system, and the Joint-Service Technical Data IPT team selected Open Text to complement an existing XML-based content management system (CMS). With its Java Enterprise Edition (JEE) architecture and open interface, the DAM software from Open Text is integrated with a complex array of unique F-35 Program Technical Data development and support authoring workflows.

"Innodata Isogen is widely recognized for our expertise and experience designing and integrating content management and publishing systems for companies with complex, large-scale publishing requirements," said Al Girardi, vice president and chief marketing officer for [Innodata Isogen](#). "The Open Text solution met our client's requirements and delivered a number of features providing JTD IPT Graphics Illustrators and Technical Data Authors with robust search capabilities; broad format support, flexible security permissions and a host of other tools to help execute tasks more efficiently."

Scott Bowen, President of Open Text's Digital Media Group, noted: "Lockheed Martin needed an extensible, interoperable media management solution capable of supporting a highly collaborative, globally coordinated effort like the Joint Strike Fighter. Technical data and digital media content are critical support resources for the F-35 Program, helping to achieve overall effectiveness of the F-35. We are pleased to play an important role in this program."

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For more information about Lockheed Martin and the F-35 Lightning II, please visit:  
[www.lockheedmartin.com](http://www.lockheedmartin.com).

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## ***Multi-Discipline Engineering Design Company Selects AVEVA Plant***

6 April 2009

AVEVA announced that Melbourne-based zektingroup has selected AVEVA's flagship plant design product, AVEVA PDMS, for the engineering design of new Coal Seam Gas plants for major Gas Operators in Australia.

The zektingroup provides engineering design and project management services to many of the process plant industries including the oil & gas, chemical, pharmaceutical, biotech and food & beverage industries. Zektin is especially well known for its engineering expertise in the Coal Seam Gas Industry (CSG), where the company has become the prime supplier of engineering services to many of the leading industry energy developers.

Peter Fitzgerald, Director, [zektingroup](#), said:

"We chose AVEVA PDMS because it provides us with an innovative and cost-effective multi-disciplinary solution".

Peter went on to say "the 3D capabilities of PDMS will help accelerate project designs and approvals, as Zektin will be able to involve their customers in the development phase more effectively. [AVEVA](#) Global will be used to manage and enhance collaboration between the head office in Melbourne and the design office in Brisbane." Peter has worked with PDMS previously and has seen the competitive advantage it can provide to delivering substantial projects on time and within budget.

Peter Finch, President, AVEVA Asia Pacific, said:

"We are proud to be working with leading engineering design companies such as zektingroup. We are confident that Zektin will benefit from the enhanced engineering design efficiency that PDMS brings."

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## ***RECARO Aircraft Seating Applies New Standard for CAD Data Management***

8 April 2009

RECARO Aircraft Seating, an internationally leading manufacturer of aircraft seats, has been using CIM DATABASE since March 2008 as global platform for its Product Lifecycle Management (PLM). With the roll-out of its world-wide CAD data management the enterprise has now achieved the next planned step of its PLM roadmap: since January 2009, global, multi-site engineering collaboration is now also being supported via CIM DATABASE. RECARO Aircraft Seating is the first customer to manage its CATIA V5 data with CONTACT's new Workspaces technology. Now, preparations are under way for phase three, the extension of the PLM environment for engineering change management.

The PLM project RECARO 2010 started off with the integration of product development and ERP. The synchronization of pivotal company elements such as articles, parts lists and technical documentation supports a company-wide master data management. Fundamental are processes such as sign off and engineering change management which determine transactions that reach far into the spheres of ERP.

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Prerequisite was the migration of the complete product data repository to the new CIM DATABASE PDM/PLM-platform, including 290.000 classified articles, 2.000.000 BOM entries and hundreds of thousands of documents from SAP and other sources.

Now with phase 2 activated CAD data management links the developers and their CAx-tools CATIA V4 and V5 with the central PDM/PLM data hub. Automated conversions into neutral formats and the integrated CAD and structural data exchange now decisively contribute to process reliability and cost reduction. Jochen Weidner, IT director with RECARO Aircraft Seating, is highly satisfied with the result of the CIM DATABASE implementation in Germany and the US. „Thanks to the smooth collaboration with the PLM project team, we were able to achieve our roll-out objectives as planned, confirming our decision for CONTACT Software as contractor“, so his summary.

The RECARO project also excels through its first time deployment of CIM DATABASE's Workspace Manager with CATIA V5. Based on the conception of „shared workspaces“, CONTACT defines a new standard for CAD data management. Workspaces support the efficient self-organization within the scope of development projects. They allow CAD and Office documents, design-space structures etc. to be individually utilized and distributed by a personal or team-oriented workspace in a local, regional or world-wide context.

The KEIPER RECARO Group is a reputed manufacturer of premium seating for the automotive and aircraft industries. RECARO Aircraft Seating achieved revenue of some 246 m Euro in FY 2008 and currently employs about 1.200 people, half of which work in Germany. They design, manufacture and market passenger aircraft seats and seating components for manufacturers such as Airbus and Boeing and all leading airlines world-wide from other sites in Europe, the US, Asia and South Africa.

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## ***Sun Chemical Taps Pilgrim Software's SmartSolve® Platform for Enterprise Complaints and Quality Management***

9 April 2009

[Pilgrim Software, Inc.](#) announced that Sun Chemical, the world's largest producer of printing inks and pigments, will utilize Pilgrim's automated platform for [complaints management](#) and [quality management](#) at its manufacturing sites across North America and Europe beginning later this year.

In an effort to enhance tracking, visibility and control of its complaints process, Sun Chemical has implemented Pilgrim's [SmartComplaints](#)<sup>™</sup>, an out-of-the-box, closed-loop application that allows manufacturers to implement efficient resolutions to customer issues. This helps Sun Chemical to ensure industry and regulatory compliance both domestically and internationally, improve its overall product quality, and reduce in-house costs associated with customer complaints.

Previously, [Sun Chemical](#)'s global divisions were using a number of disparate systems and processes for complaints handling. The data provided to Sun Chemical's corporate management was not in a standardized format and therefore the data could not easily be analyzed, sometimes delaying the timeframe for making strategic business decisions.

In addition to Pilgrim's SmartComplaints, Sun Chemical will also tap into the SmartSolve platform's [SmartAudit](#)<sup>™</sup>, [SmartDoc](#)<sup>™</sup> and [SmartTrain](#)<sup>™</sup> to further manage, streamline and optimize quality and operational processes across various areas of the company.

“After evaluating multiple enterprise-wide systems, we ultimately chose to use Pilgrim's SmartSolve

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applications based on the product's capabilities, price and the level of service provided," said John Gowlett, Sun Chemical's Vice President of Global Operations. "Rather than spending time building applications from scratch, Pilgrim's pre-built, [out-of-the-box software](#) gave us what we needed. Pilgrim's system requires zero customizations and only the unique configurations and workflows required for each location and business unit."

"Complaint handling and quality management process automation is a critical part of any quality program, and SmartSolve provides all the right features to Sun Chemical to take the worry out of complaint handling and overall quality assurance efforts," said Prashanth Rajendran, Pilgrim's Chief Operating Officer. "Our solution will allow this globally recognized organization to implement effective and timely resolutions to customer issues, helping maintain its global reputation for quality, compliance and overall excellence."

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## ***Synopsys Selected by Marvell as Its Primary EDA Partner***

7 April 2009

[Synopsys, Inc.](#) announced that Marvell, a leader in the development of storage, communications and consumer silicon solutions, has signed an expanded business agreement to establish Synopsys as its primary EDA partner. Marvell chose Synopsys because of its broad product portfolio and its ability to help Marvell meet aggressive product schedules by consistently delivering a proven flow and providing outstanding global support.

"The foundation for Marvell's growth as a leader in today's highly competitive semiconductor industry is the development of breakthrough technology combined with dedication to customers and consistent delivery of high quality products," said Dr. Pantas Sutardja, chief technology officer at Marvell. "During the last three years, we have deployed a broad set of Synopsys technology solutions to tape-out multiple 90- and 65-nanometer production designs."

The latest agreement between the two companies expands Marvell's use of solutions across Synopsys' portfolio. These products include Synopsys' Galaxy design platform featuring IC Compiler place-and-route technology, Design Compiler® synthesis, DFTMax test synthesis, TetraMAX® automatic test pattern generation, PrimeTime® timing analysis, and Star-RCXT™ parasitic extraction; Synopsys' Discovery verification platform featuring the VCS®, HSPICE® and CustomSim simulators for analog and digital verification; DesignWare® library; the Synplicity® FPGA design solution; and System level design featuring Innovator virtual platform and DesignWare System-level libraries.

"In the current economic climate, leading semiconductor companies are focusing on improving operational efficiency worldwide and reinforcing their long-term financial strength," said Chi-Foon Chan, president and chief operating officer at Synopsys. "Synopsys values the relationship with Marvell that has resulted in several silicon solutions for mobile, desktop, enterprise and consumer markets. This collaboration is intended to increase Marvell's R&D productivity by using the Synopsys implementation and AMS verification solution that will help them meet aggressive design schedules."

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## ***Vertical Apparel and Home Products Company Pendleton Woolen Mills Selects Yunique plmOn***

1 April 2009



# CIMdata PLM Industry Summary

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Yunique Solutions Inc. (<http://www.yunique.com>) announced that apparel and home products manufacturer and retailer [Pendleton Woolen Mills](#) plans to implement the Yunique plmOn™ product lifecycle management software solution in its Portland, Oregon (USA) headquarters. The maker and marketer of men's and women's wool apparel, home goods and accessories will use the PLM software solution across all of its four divisions to centralize all product development information and make it more accessible to internal teams, Pendleton's domestic mills, and global trading partners. Pendleton expects the new system to reduce product development cycle times and enhance product innovation. With plans to go-live with about 45 users this summer, the company will also utilize Yunique's companion srmOn™ supplier relationship management (SRM) software to integrate its global factory partners into its business processes.

"This is an exciting year for Pendleton as we celebrate 100 years of weaving America's spirit since 1909. We are looking forward to building the brand for the next generation, and we are committed to providing our teams with the most productive tools available", stated Pat Fowler, Women's Wear Division Manager. "By utilizing the Yunique solution to keep information flow moving forward and automate traditionally manual tasks, our development team will realize efficiencies to focus on creativity and product innovation. After evaluating eight separate PLM systems, we saw Yunique as the best fit for us; both in terms of system capabilities and as a vendor partner. They clearly understand our business and the tools we need to streamline processes and shorten lead times."

"We are pleased with the opportunity to work with such a distinguished company as Pendleton Woolen Mills", added Yunique Vice President Lenny Weiss. "We look forward to working with the Pendleton team to help them achieve cost savings and enhance profitability and growth."

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## Product News

### ***Agilent Technologies' GoldenGate Software Certified for Designs Targeting TSMC 65/40 Nanometer Process Technologies***

9 April 2009

[Agilent Technologies](#) announced that TSMC has certified the accuracy, performance and compatibility of Agilent's GoldenGate RFIC circuit simulator for baseband designs targeting TSMC's 65LP nanometer (nm) and 40LP nm processes. The TSMC SPICE Tool Qualification Program targets TSMC's 65/40 nm and smaller geometry process technologies, delivering improved device model accuracy, enhanced simulation efficiency and compatibility, and enabling faster time-to-market and first-pass silicon success.

"As part of the TSMC Open Innovation Platform, I am pleased to announce that Agilent's GoldenGate RF/mixed-signal simulator has met the stringent 65/40LP nm baseband SPICE Tool Qualification Program requirements for accuracy and compatibility," said Tom Quan, deputy director of Design Service Marketing at TSMC. "GoldenGate qualification reports for TSMC's 65/40nm processes have been posted on TSMC-Online."

"With the ever-increasing complexity and operating characteristics for next-generation wireless ICs, foundry and EDA collaboration is essential for successful RFIC designs in these leading-edge technology nodes," said Paul Colestock, RFIC product marketing manager with Agilent's EEs of EDA division. "We are pleased with the certification of GoldenGate for these advanced RFIC nodes as well as

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the relationship we have established with TSMC on several fronts that will benefit our mutual RFIC customers.”

GoldenGate is an advanced simulation and analysis solution for integrated mixed-signal RFIC design. Its simulation algorithms are optimized for the demands of today’s complex RFICs, and its capacity enables full characterization of complete transceivers, including parasitics, prior to tape-out. GoldenGate takes advantage of frequency-domain, time domain and mixed-signal simulation technologies to ensure proper device operation, increased manufacturability and reduced design spins.

GoldenGate also includes a suite of automation tools to increase overall simulation coverage developed with the RFIC designer in mind. This suite helps designers launch multiple, parallel simulations, analyze circuit performances and diagnose problems with mixed-signal RFICs earlier in the design cycle.

GoldenGate is part of Agilent’s RFIC simulation, analysis and verification solution that also includes Momentum for 3-D Planar electromagnetic simulation, Ptolemy Wireless Test Benches for system level verification, and the Advanced Design System EDA Data Display for advanced data analysis. This suite links the RF system, subsystem, and component-level design and analysis as part of a unique and comprehensive design flow.

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## ***AspenTech Delivers Batch Process Development Innovations for Pharmaceutical and Specialty Chemical Industries***

7 April 2009

Aspen Technology, Inc. introduced batch process development innovations for the pharmaceutical and specialty chemical industries. The innovations in the new 7.1 release of aspenONE software will help chemists and engineers to accelerate batch process development and reduce manufacturing costs.

The 7.1 release includes a new process development console and GUI enhancements that simplify batch modeling processes, ensuring efficient and error-free transfer from lab to pilot to manufacturing.

The new release also accelerates process development through improved solubility modeling and reaction modeling integrated with batch distillation.

### **Supporting Quotes:**

*Dr. Ugo Cocchini, Principal Process Engineer-Team Leader, GlaxoSmithKline*

“aspenONE V7 offers us at GSK a step-change in our modeling and design methods. In particular, the introduction of Aspen Reaction Modeler and the NRTL-SAC thermo method for modeling separation processes will make a significant difference for our way to approach process design.”

*Peter Crafts, Principal Process Engineer, AstraZeneca Pharmaceuticals*

“Solubility prediction is of strategic importance to AstraZeneca Process R&D. Our industry is increasingly challenged to deliver efficient and environmentally acceptable processes. Taking just a few physical property measurements and extrapolating them to predict temperature and composition effects on solubility is very desirable. The solubility modeling capability with NRTL-SAC in aspenONE V7 is one of the tools we use in our crystallisation process design workflow. aspenONE helps leverage solubility data to optimise solvent choice and processing conditions. We look forward to future developments from AspenTech that will further increase the areas of application.”

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*Jamie Hintlian, Vice President & General Manager, Pharmaceuticals, AspenTech*

“One of the biggest challenges facing Pharmaceutical and Specialty Chemical companies is being able to deliver and share information from a lab environment into a pilot plant and ultimately full scale manufacturing in an efficient and error-free manner. With aspenONE V7, we are significantly streamlining the Process Development workflow. This is yet another key component in the execution of our strategy to extend our process industry innovation to Pharmaceuticals and other batch industries.”

## **Additional Benefits**

Additional benefits to pharmaceutical and specialty chemical companies offered by the 7.1 release of aspenONE include:

- Improved efficiency of valuable chemist and chemical engineering resources in process development – freeing them up to do more experimentation and value-added activity in R&D

- Reduced risk of pilot plant batch failure by guiding chemists and engineers to a narrower range of tested process conditions

- Accelerated product development through faster solvent screening

- Improved yield and reduced waste costs by enabling the chemist and chemical engineer to examine more process options in less time

- Process selection to minimize emissions and support for environmental compliance reporting

- Reduced time to create pilot plant batch records by automating the generation of the batch record from the master recipe

- A robust process delivered to manufacturing through a more thorough tech transfer process

## **Supporting Resources:**

To learn more:

[aspenONE for Pharmaceuticals](#)

[aspenONE for Specialty Chemicals](#)

[aspenONE for Specialty ChemicalsaspenONE V7 Engineering](#)

[AspenTech 2009 User Conference](#)

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## **BlueCielo Supports AutoCAD 2010 Product Family**

8 April 2009

BlueCielo ECM Solutions announced that it has released InnoCielo Meridian Enterprise 2008a Service Pack 1 and InnoCielo TeamWork 2008a Service Pack 1, which provide updated AutoCAD 2010 support, among other enhancements. BlueCielo’s flagship product InnoCielo Meridian Enterprise enables companies to strategically manage their asset information and engineering processes to optimize performance, control costs and reduce risk, while InnoCielo TeamWork offers functionality for engineering teams.

The InnoCielo 2008a SP1 releases are specifically brought to market to support the AutoCAD 2010

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product family recently released by Autodesk, including AutoCAD 2010 and Inventor 2010. The Service Packs also support SolidWorks 2009 SP3 and AutoCAD P&ID 2008 and 2009. For SolidWorks, the support of virtual components has been added, allowing the full management of the entire SolidWorks assembly within the Vault.

In addition to these CAD upgrades, InnoCielo Meridian Enterprise 2008a SP1 provides enhancement to the recently released InnoCielo Advanced Project Workflow module, and several fixes that improve stability and usability.

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## ***Dassault Systemes Announces New Solution to Improve Reliability of Welded Joints***

10 April 2009

Dassault Systemes (DS) announced the availability of Verity® for Abaqus, from the DS SIMULIA brand, for simulating realistic structural stress in welded joints and other connections.

Verity® for Abaqus, a new add-on product for Abaqus FEA software, enables engineers to accurately predict a consistent stress characterization for welded joints in industrial applications such as pressure vessels, piping, storage tanks, offshore platforms, and construction equipment. The new product is based on the Verity® mesh-insensitive structural stress method from Battelle, the world's largest non-profit independent research and development organization.

In addition to welded joints, the Verity® structural stress method can also be applied to structures with geometrical notches such as adhesive joints, mechanically fastened joints, electronic packages, and manufacturing notches that exhibit stress concentrations due to loading. The method has been adopted in the American Society of Mechanical Engineers (ASME) Division 2 Code and API 579/ASME FFS-1 Codes for Fitness-for-Service assessments based on allowable stress methods and plastic collapse loads.

“Due to mesh sensitivities in finite element models, it is difficult for engineers to accurately characterize structural stress in welded joints and other discontinuities, and this often results in unreliable fatigue life prediction,” stated Steve Crowley, director of product management, SIMULIA, Dassault Systemes. “By leveraging Battelle’s technology, Verity® for Abaqus provides a mesh-insensitive solution and enables engineers to improve reliability and safety of structures that use welds or other joining techniques such as soldering or brazing.”

In the nuclear power industry, Verity® for Abaqus helps engineers to evaluate weld performance of mission-critical components and systems such as pressure vessels to reduce maintenance and in-situ physical inspection. In the oil and gas industry, benefits include improved operational availability of physical systems such as pipelines and offshore structures. “The industry challenge of meeting regulations for structural stress of welded joints requires new technology and methods,” stated Spencer Pugh, Vice President for Battelle’s Industrial and International market sector. “By integrating our Verity® technology with Abaqus, SIMULIA is providing a unique simulation solution that enables companies to analyze accurate weld performance, lower development costs, and accelerate their design and implementation processes.”

For more information, visit: <http://www.simulia.com/products/vfa>.

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## ***iBASEt's Solumina MOM Leverages Latest SAP Services Oriented Architecture (SOA) for A&D Companies***

30 March 2009

[iBASEt](#), a leader in enterprise Operations Process Management (OPM) software solutions, announced the release of its new off-the-shelf MOM to ERP integration package for SAP—standard integration package that enables customers to bridge the SAP enterprise business system and the Solumina operations management system at the shop floor.

Solumina delivers features for Aerospace and Defense (A&D) companies that complement and enhance SAP's solutions. Solumina is designed to manage the continuous stream of changes driven by engineering and issues that arise during manufacturing and service of complex products while maintaining process control and full accountability for regulatory compliance and requirements from customers, DoD, FAA, and standards like AS9100.

Some of the functionality that Solumina delivers to complement SAP includes:

- Illustrated work instructions that step the operator through the process and prompt for data collection and signatures where required;
- Inspection plans with data collection, test, verification and electronic signature requirements;
- Tight integration of change management processes with Engineering CAD/PDM systems;
- Employees and tools certification validation;
- Detail process control at a operation level including decision points and return loops based on data collected;
- Capability to split a work order after it has started and maintain serial number traceability.

All of these features are delivered in a simple user interface designed to reduce the learning curve for shop floor personnel and provide the process control required to assure product quality in highly regulated industries.

"SAP's and Solumina's JEE and SOA strategies are very compatible. We built the integration product on top of the new SAP enterprise services released on Netweaver and extended the interfaces on the SAP side to support OAGIS integration standards and accommodate scenarios required by our A&D customers," stated Frank Heinrich, iBASEt's CTO.

"iBASEt's product strategy is to be the "best of breed" OPM solution while providing the lowest total cost of ownership (TCO) for our customers. We are focused on providing off-the-shelf integrations to the major ERP and PLM solutions thereby lowering the cost, risk and schedule of implementations and future upgrades. Our strategy ensures a better solution rather than a customized ERP solution which may be disruptive to the shop floor," commented Vic Sial, iBASEt's President.

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## ***iBASEt Releases New Dassault Systèmes Partner Solution Integrating Engineering and Manufacturing***

30 March 2009

[iBASEt](#), a leader in enterprise Operations Process Management (OPM) software solutions, announced

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the release of its new Dassault Systèmes (DS) CAA Partner product, the iBASEt OPM PDI (Process Data Integrator) for DS, providing the first off-the-shelf integration of Engineering and OPM systems in the industry.

iBASEt's strategy for integrating its Solumina OPM to Engineering tools like DS's DELMIA and 3DVia Composer suite is unique in its integration at the engineering object level. Most Manufacturing Execution System (MES) solutions in the market are delivering graphical instructions as attachments to work orders with a "paper on glass" approach that mimics the old-fashion paper-based processes. Solumina is integrating the Process Engineering and Inspection Planning processes into a collaborative environment where Design, Manufacturing and Quality Engineers work side by side with authoring, workflow and change control among them. The result is an illustrated online work procedure that steps the mechanic and inspectors at the shop floor through work and inspection procedures prompting for data and signatures where needed.

"Engineering requirements for aerospace and defense companies are constantly changing. Our customers need assurance that the product going out the door matches what Engineering prescribed and approved, especially changes done during manufacturing—it is a regulatory requirement in AS9100," stated Conrad Leiva, VP Product Marketing. "Our customers used to have many additional overhead procedures and people in place to chase this information around and put it together for the customer. Solumina automates this online and real-time, and assembles the product information package electronically."

Solumina delivers features embedded and layered on top of the graphical work instructions—features that are needed to manage complex processes including:

- Inspection plans with data collection, test, verification and electronic signature requirements
- Employees and tools certification validation
- Complex operation flow requirements with decision points and return loops based on data collected

All of these features delivered in a simple user interface designed to reduce the learning curve for shop floor personnel and provide the process control required to assure product quality in a highly regulated industry.

"We have received much praise from our customers on our unique associative integration approach. Solumina uses all the value provided by the DS tools yet provides full flexibility in adding the required inspections, decisions and calculations to the process plans. We are told we are years ahead of the competition," remarked Michel Gadbois, VP of Sales and Marketing.

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## ***LEDAS Announces Availability of its Variational Geometric Solver LGS for the Mac***

9 April 2009

LEDAS Ltd. announced it ported LGS, its variational geometric solver software, to Mac OS X. The LEDAS geometric solver is a parametric engine for sketching, drawing, history-free 3D modeling, bottom-up assembly design, and kinematic simulation applications.

"We are pleased to offer our LGS software to satisfy increasing customer demand for parametric applications on Mac OS X," said Dmitry Ushakov, Director of Product Management, LEDAS Ltd. "Being a traditional choice for design professionals, the Mac platform still lacks powerful parametric

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CAD solutions. LGS is LEDAS' first product for the Mac, and we have already started work on porting our Driving Dimensions plugin to this platform.”

Both products LGS 2D and 3D have been completely ported to Mac OS X, and tested on a base of 10,000 industrial parametric models. Sales and support of LGS 2D/3D for Mac OS X v10.4 and v10.5 are available immediately after issuing this press release; older versions can be supported on request. LEDAS does not plan to port its Lege'n'd demo applications to Mac OS X; however, before the end of Q2'2009 LEDAS will release a Mac version of its plugin Driving Dimensions for Google SketchUp. Mac users can download a free version of this plugin to evaluate the performance and robustness of LGS 3D. The announcement will be published at <http://www.DrivingDimensions.com>.

LGS 2D/3D can be licensed by any CAD development company or by an individual developer on a flat annual fee basis with no per copy royalties. A free evaluation version is available. LEDAS has an affordable licensing policy for start-up companies.

## About LGS Software

Variational geometric solvers LGS 2D and LGS 3D are computational modules engineered to support two-dimensional parametric sketching/drawing, history-free 3D modeling, bottom-up assembly design, kinematics analysis, and other applications that require parametric connections or constraints to be set between geometrical objects.

LGS 2D/3D supports creation and modification of the geometric models by means of (explicit or implicit) constraints. Typical geometric objects are points, lines, circles, or black-box parametric curves. Objects can be fixed in the absolute coordinate system or with respect to each other (the latter feature is provided by the so-called rigid sets of objects). A set of geometric constraints includes logical constraints between geometric entities (like coincidence, parallelism, tangency, etc.), and dimensional constraints (that specify the required values for the given distances, angles or radii). LGS 2D/3D also supports user-defined variables, algebraic and black-box equations, and tabular constraints that can be arbitrarily mixed with geometric dimensions. LGS 2D/3D moves and rotates objects to the positions where all constraints are satisfied with minimal possible transformations of the initial configuration. Both LGS 2D and LGS 3D are simultaneous solvers: they can solve cyclic dependencies between constraints. Under-constrained and over-constrained models can also be efficiently solved as well. Additional features of LGS 2D/3D are dynamic constraint solving (while dragging an object) and redundant/inconsistent constraint diagnostics.

LGS is a cross-platform software package. It is a set of binary libraries that runs under all 32- and 64-bit Windows, Mac OS X, Linux, \*BSD, AIX, HP-Unix, Sun Solaris, and other OS. Coded in C++, LGS 2D/3D has a pure C API for integration into a broad range of software applications. Each solver can be used as a self-supporting component, or jointly as a bundle of 2D+3D versions.

Two sample Windows applications called Lege'n'd 2D and Lege'n'd 3D are freely available at the LEDAS web site with a set of representative examples. Lege'n'd 2D is a simple variational sketcher, while Lege'n'd 3D can be used to create and animate assemblies from parts in IGES/STEP formats. These applications can be used by anyone to test functionality, robustness and performance of LGS 2D/3D. They were created with the Open CASCADE open-source application framework. The source code of Lege'n'd 2D/3D is available upon a special request.

To learn more about LGS, please visit LEDAS website at <http://www.ledas.com/products/lgs2d> and <http://www.ledas.com/products/lgs3d>.

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## ***Mentor Graphics Introduces Next-Generation VeSys Electrical Design Software***

8 April 2009

Mentor Graphics Corporation announced the availability of its next-generation VeSys® electrical/wire harness design products serving harness makers and off-road and specialty vehicle manufacturers. The VeSys 2.0 application suite goes beyond enhancing the previous offering; it has been completely re-architected.

Now based on a data-centric paradigm, where all information is stored within an integrated database rather than individual files, the VeSys 2.0 suite delivers superior design data management, user permissions management, and access to InfoHub, Mentor's user documentation system. These capabilities allow the VeSys 2.0 suite to be more readily adapted to different organizational and IT requirements, simplifying its deployment and broadening the scope of potential applications.

In addition, the VeSys 2.0 suite incorporates over 50 functional enhancements suggested by existing VeSys customers. Examples include flexible simulation model creation, a completely new user environment, and greatly-enhanced drafting capabilities. User productivity is substantially boosted, reducing design costs and time to market.

VeSys products have historically targeted off-road and specialty vehicles, including the design of fire trucks, construction and agricultural vehicles, as well as other industrial equipment with significant electrical/wiring content. Thanks to its new architecture, the VeSys 2.0 suite now also provides such organizations with a native data upgrade path to Mentor's CHS™ electrical systems design suite, should this be required by increasing design complexity. The VeSys 2.0 suite users can also share component libraries and simulation models with corporate sister divisions who are using CHS electrical systems.

“As a long time user of VeSys we are excited to find the new generation version has retained the same ease-of-use and intuitiveness as the previous version, yet added important new features,” said Mike Geary, engineering manager, Ionix Systems, a supplier of electrical and electronic cable assemblies for advanced applications within military, aerospace, vehicle and industrial control systems. “The ability to easily share designs and component data with other VeSys and CHS users is an additional benefit that will appeal to our customers who use these tools.”

Geary added, “We are able to capture all the customers' requirements and pass to manufacturing within the same day, thus eliminating the need to reconstruct drawings and bills of material. It is clear that VeSys is the tool for both OEMs and suppliers who both require fast turnaround of design and product introduction.”

“I am very impressed with VeSys 2.0,” said Ed Lord, executive manager at Oasis Sales, a US-based design software reseller. “It takes us to the next level and is certain to be successful. Indeed, one customer who makes heavy construction equipment has selected VeSys 2.0 before the product was even released based on their evaluation of beta software.”

The VeSys 2.0 suite is available immediately worldwide, directly from Mentor Graphics and via its distribution network. Free evaluation software, which incorporates a guided test drive, can be downloaded from [http://www.mentor.com/products/cabling\\_harness/design-flows/vesys\\_elec\\_series/](http://www.mentor.com/products/cabling_harness/design-flows/vesys_elec_series/).

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## ***Mentor Graphics Unveils Advanced Low Power Features in Its Olympus-SoC Place-and-Route Platform***

6 April 2009

[Mentor Graphics Corporation](#) announced immediate availability of the Olympus-SoC™ platform with new features for low power IC implementation. The low power capabilities are targeted for advanced technology processes and take advantage of the Olympus-SoC design-for-variability architecture that natively optimizes for variations in design modes, process corners and manufacturing. Consequently, the Olympus-SoC customers are experiencing 2-3X faster design closure times, as well as a 30% power savings versus traditional solutions.

The Olympus-SoC low power solution includes a flexible architecture for automated multi-voltage design flow, and advanced techniques for power reduction in complex clock trees. It also includes concurrent optimization of leakage and dynamic power, timing and signal integrity across multi-corner multi-mode (MCMM) scenarios.

“Low power has become an imperative design metric for our advanced mobile computing requirements,” said Noboru Yokota, General Manager, Technology Development Division, Fujitsu Microelectronics Limited. “Since the Olympus-SoC platform is an integral part of our design closure system, we partnered with Mentor to incorporate advanced low power capabilities into our methodology. Advanced low power techniques, including multi-voltage, MCMM-CTS, clock tree restructuring, skew tuning and slew shaping, were evaluated — the results look impressive, with savings in overall power in addition to design closure at all modes and corners.”

### Low Power Design Challenges

Multi-voltage design, a mainstream technique to reduce total power, is a complex, time-consuming task. This is because many blocks operating at different voltages, or intermittently shut off, increases the number of power states, which compounds the already complex MCMM problem. Incumbent place-and-route systems that do not have native MCMM capabilities are not able to efficiently handle the complexity of optimizing both power and timing concurrently. Additionally, because power consumption in the clock tree network is a significant portion of the total chip power, designers need power-aware clock tree synthesis (CTS) solutions that can deal with increasing wire resistance and resistance variability at smaller geometries. Finally, design sizes are increasing exponentially as more functionality is packed on a die, especially for mobile applications. Inability of incumbent tools to handle large design sizes forces designers to chop designs into manageable pieces, which complicates top-level chip assembly closure.

### **The Olympus-SoC Low Power Platform Delivers Comprehensive Power Management Capabilities**

The Olympus-SoC place-and-route platform comprehensively handles the requirements of low-power design, while ensuring optimization of the overall solution without excessive design iterations, enabling engineers to deliver fully-optimized, power-efficient designs. The Olympus-SoC system includes the following key technologies to address low power challenges and deliver best quality of results:

- Completely automated multi-voltage flow with support for Dynamic Voltage and Frequency Scaling (DVFS) to handle varying supply voltages and clock frequencies, and the capability to handle special cells such as level shifters and isolation cells.
- Power-aware CTS with smart clock gate placement, slew shaping, register clumping and concurrent MCMM optimization that ensures a balanced clock tree with the minimum number of clock buffers.

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- The only architecture that provides seamless concurrent optimization for both power states and timing, covering all operating modes and corners through all stages of the flow.
- Unified Power Format (UPF)-based Netlist-to-GDSII flow including support for power state definition tables.

Additionally, the Olympus-SoC product offers techniques such as concurrent multi-Vt optimization, power gating using MTCMOS switch cells, retention flop synthesis, gas station methodology, and power-aware buffering and sizing. The Olympus-SoC system is architected for today's large, complex low power SoCs with the ability to directly handle 100 million-plus gates in flat mode. Fully-multithreaded analysis engines, and the industry's only fully-parallelized timing and optimization engine, provide up to 7X speedup on multicore and multi-CPU computing platforms.

“The core innovations that give the Olympus-SoC system a generation lead over other tools in terms of design closure also contribute to its ability to deliver the best low power designs,” said Pravin Madhani, general manager for the Place and Route division at Mentor Graphics. “While all place-and-route tools provide mechanisms to implement low power design strategies, such as multiple clock and voltage domains, and retention registers, only the Olympus-SoC system with concurrent MCMM optimization can ensure the best results across all operational and voltage modes, and across all process and manufacturing variability corners.”

## **Availability**

Olympus-SoC for low power design is available now.

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## ***ModuleWorks Announce New 2009.3 Software Release***

April 2009

ModuleWorks announced the latest release of its CAM components, version 2009.3. The release offers a wide range of new features across the product range, further expanding capability for the different areas of 3-5 Axis toolpath creation and machine simulation.

The 3-Axis machining component adds new options for toolpath control in roughing as shown in the illustrations below. Aimed at maintaining a smooth motion and constant feedrate, roughing allows corner motion to be smoothed and new ‘S’ shape link moves to be generated between passes. Smoothing is also an option for the final pass but separate control is provided for maximum flexibility. Finally, a ‘remove corner peg’ control is used to ensure complete material removal, especially useful when higher stopovers are employed.

The 4 and 5-Axis machining components have been further refined with improvements focussed on toolpath control, particular during linking and collision avoidance motion. Link control now has the ability to follow stock when connecting larger gaps; this has the benefit of being safe while minimising the motion during the link move.

ModuleWorks Simulation includes new backplot control to help visualise and optimise toolpath motion. Lead and link moves may be switched off and control is now provided to allow a limited number of toolpath segments to be displayed at any one time. These features improve visualisation of the toolpath and allow users to better understand tool motion in the virtual world.

David Plater, Technical Director comments, “We’ve followed the strategy from the previous releases by

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providing a range of productivity improvements across the product range, much of it based on feedback from our partners. The beta releases have been well received and many partners have already begun incorporating the new features in their own products”.

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

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## **NGC® Announces Industry’s First CPSIA Compliance Software**

1 April 2009

NGC® (New Generation Computing®) announced the release of its CPSIA Compliance Software, which is designed to streamline all testing processes and ease the burden of the Consumer Product Safety Improvement Act (CPSIA).

The CPSIA software allows retailers and manufacturers to manage the process of requesting, tracking, approving and sending the General Certificate of Conformity (GCC) and Certificate of Compliance (COC) documents that are mandated by the CPSIA. In addition, NGC’s software allows companies to manage the dozens of third-party lab tests that are required for apparel design and production.

The CPSIA sent shockwaves through the retail and apparel industry when it took effect on February 10, 2009. Retailers and manufacturers must now comply with dozens of labor-intensive testing regulations – a majority of which call for measuring lead and phthalate content in finished products and their components. With these mandatory testing requirements, retailers and manufacturers are “guilty until proven innocent,” as they can face huge fines for failing to provide General Certificates of Conformity and Certificates of Compliance stating that products are CPSIA compliant.

Retailers and manufacturers can now take a proactive approach with NGC’s CPSIA Compliance software, which is designed to help at every step of the testing process. [NGC](#) is the first apparel-specific software company to offer a solution tailored specifically for managing CPSIA compliance, with features that include:

- Enabling manufacturers and retailers to streamline the process of requesting, tracking, approving and sending General Certificates of Conformity and Certificates of Compliance – all at the click of a button

- Providing comprehensive visibility into the compliance and testing process so that responsible parties will be able to view the status of tests and documentation at any time

- Streamlining the entire testing process, including the dozens of third-party lab tests that brands and retailers typically perform on styles, components and materials.

NGC’s CPSIA Compliance software is a web-based solution that includes a complete set of management features such as workflow calendars, collaboration, exception management, and email alerts. It is available as a standalone software product and can also be used with NGC’s e-PLM® for Product Lifecycle Management and e-SPS® for global sourcing and visibility.

NGC’s CPSIA Compliance Software is available immediately.

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## *Oracle Introduces Oracle's Agile Product Lifecycle Management Integration to SAP ERP*

6 April 2009

Oracle announced the availability of Oracle's Agile Product Lifecycle Management (PLM) Design-to-Release Process Integration Pack (PIP), connecting the Enterprise PLM Product Record in Oracle's Agile PLM with SAP ERP.

Leveraging Oracle® Application Integration Architecture (AIA), this pre-built process integration pack (PIP) enables enterprises to accelerate time-to-market for new products while reducing cost, improving quality and minimizing supply chain disruptions.

Oracle's Agile PLM Design-to-Release PIP is based on an open, standards-based service oriented architecture (SOA) designed to deliver synchronization of product content among distributed engineering and manufacturing organizations and the extended product network.

For years, Agile PLM customers have benefited by leveraging integrations with SAP, and this latest standards-based integration will give customers even more flexibility to adapt to changing business environments.

Committed to working collaboratively with partners, Oracle co-developed the product with Sierra Atlantic, a provider of full lifecycle product development and IT services and a Certified Partner in the Oracle PartnerNetwork.

SAP customers can take advantage of Agile PLM by leveraging this pre-built integration pack that spans the entire design to release process.

Specific benefits of the PIP include:

- Composite process and solution capabilities that are configurable, extensible and sustainable and allow customers to leverage current and future systems investments.

- Pre-built, open standards-based and complete "Design to Release" flow for new product releases.

- Cross-application execution of the change management process releasing product design updates to manufacturing.

- Configurable, extensible, bi-directional synchronization of engineering and supply chain information between PLM and manufacturing for greater visibility, without the need for recoding and with protection of changes across upgrades.

- Configuration that allows both business and IT users to easily define and manage value maps for the key elements important to them.

- A process monitoring, error handling and configurable notification management framework to help minimize impact on transfer process, product quality, cost and time to market.

- Enablement of lower total cost of ownership, as Agile PLM Design-to-Release PIP is designed, developed, maintained, owned and sold by Oracle, avoiding the need for and risk involved in third party integrations.

### **Supporting Quotes**

"Oracle is committed to enabling customers to maximize their application investments and today's announcement signals the first of many planned Oracle Application Integration Architecture PIPs that will connect our offerings with SAP ERP," said Oracle Vice President of Application Development and

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Product Strategy for AIA, Jose Lazares. “Early visibility into product development and supply chain data can significantly improve time to market and time to volume metrics, enabling greater, sustainable and more predictable product innovation.”

“Customers are looking for pre-built products that can be easily configured and extended to work seamlessly with technology investments today and support future plans and directions,” said GK Murthy, Senior Vice President, Enterprise Solutions at Sierra Atlantic. “Our collaboration with Oracle enables us to marry implementation expertise with Oracle’s industry leading applications to deliver greater value to our customers.”

## **General Availability**

Oracle's Agile Product Lifecycle Management (PLM) Design-to-Release Process Integration Pack (PIP) is available today.

Supporting Resources

[Oracle Application Integration Architecture \(AIA\)](#)

[Oracle's Agile Product Lifecycle Management](#)

[Agile Product Lifecycle Management Integration Pack for SAP ERP Data Sheet](#)

[AIA Blog](#)

[Oracle’s Agile PLM Blog](#)

[Oracle’s Agile PLM Twitter Feed](#)

[Oracle PartnerNetwork](#)

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## ***Siemens PLM Software Technology Helps Automakers Meet New Fuel Economy Standards***

7 April 2009

[Siemens PLM Software](#) announced that its technology will help automakers design and validate plants to support flexible manufacturing and drive innovation into vehicles to meet the new, stricter Corporate Average Fuel Economy (CAFE) standard of at least 35 mpg by 2020.

This month, key industry leaders will gather at SAE World Congress to discuss some of the critical issues facing automotive manufacturers, including new pressures to bring fuel-efficient vehicles to market at an accelerated pace to meet the more aggressive CAFE standard, a 40 percent increase passed by Congress in December 2007.

“To achieve the new CAFE standards, automakers will need to re-tool manufacturing facilities and make them much more flexible to accommodate the significant increase in variation of powertrains and the trend toward more models on fewer platforms,” said Dave Taylor, senior director, Automotive Industry Marketing, Siemens PLM Software. “Increasing collaboration between manufacturing engineering and product development will be critical in helping engineers develop vehicles that can be built in the same plant. Siemens PLM Software is dedicated to helping the automotive industry fulfill its commitment to the development of next-generation green vehicles by delivering software solutions that help our customers address these stricter requirements.”

Siemens PLM Software’s technology provides an integrated environment for the development,

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management and simulation of vehicle platforms, model variants, manufacturing processes and plants. By integrating information about the product and the manufacturing processes, companies can drive knowledge about manufacturing best-practices into the early phases of product development. This helps engineers and designers understand what capabilities exist in manufacturing so that vehicles can be designed to leverage those existing capabilities. Simple constraints such as common lifting points can be defined by manufacturing for product development, helping companies define a portfolio of products that can be manufactured in the same plant.

Automotive suppliers and manufacturers possess a tremendous amount of information, which needs to be visible to all departments across an organization. Having one single source of product and process knowledge enables global engineering teams to seamlessly integrate all aspects of a project and work together to optimize product development and manufacturing.

[Teamcenter®](#) software, Siemens PLM Software's flagship digital lifecycle management solution, serves as a manufacturer's information backbone. Teamcenter manages all product related data and makes it instantly available throughout an entire organization, helping to integrate manufacturing with design, and enable flexible manufacturing.

"With all of the increasingly complex components that are involved in the design and development of a vehicle, it is no longer effective to work in a manual environment. Automakers must have the information technology tools to connect the virtual world to the physical world, and we've integrated the tool sets to do just that," added Taylor.

[Tecnomatix®](#) software, Siemens PLM Software's digital manufacturing solution, helps automakers evaluate manufacturing alternatives by enabling them to better understand plant capabilities through simulation, and by facilitating increased planning accuracy and efficiency.

Siemens PLM Software is a leading provider of product lifecycle management (PLM) software and services for the automotive and transportation industry.

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## ***Sierra Atlantic Signs Co-Development Agreement with Oracle for "Design to Release" Process Integration Pack for Agile Product Lifecycle Management***

6 April 2009

Sierra Atlantic announced that the company has signed a co-development agreement with Oracle for the "Design to Release" Process Integration Pack (PIP) for Agile Product Lifecycle Management (PLM) with SAP Enterprise Resource Planning (ERP). This PIP will support the exchange of product-related content between Oracle's Agile PLM and SAP ERP, enabling streamlined integration and reduced costs and time-to-market for SAP ERP sites.

The "Design-to-Release" PIP for Agile PLM is a pre-built integration process that is also configurable and extensible to meet evolving process needs. Based on open, standards-based Service Oriented Architecture (SOA), it is designed to enable synchronization of enterprise product records across the supply chain and extended product network. The best practices reflected in PIP orchestrate a near real-time and highly responsive manufacturing release process for new products and design updates.

"Oracle Application Integration Architecture has become a major building block in the new Oracle economy," said GK Murthy, Senior Vice President, Enterprise Solutions at [Sierra Atlantic](#). "We have brought the value-added business process knowledge gained from developing various PIPs and our

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expertise with Oracle's Agile Product Lifecycle Management to develop a solution that is designed to seamlessly synchronize product content between distributed engineering and manufacturing organizations, providing a range of benefits for SAP sites that use Oracle's Agile PLM."

"We wanted to co-develop this integration solution with Sierra Atlantic, through our Application Integration Architecture partner initiative, to bring their extensive integration experience, domain expertise and competitive service rates to bear for our customers," said Jose Lazares, Oracle Vice President, Applications Development & Product Strategy, Applications Integration Architecture. "Their ability to deliver integrated business processes quickly and cost effectively will allow our customers to fully leverage Oracle's best-of-breed enterprise PLM applications with SAP ERP solutions."

Unlike traditional point-to-point integrations, typically based on proprietary third-party technologies, the "Design-to-Release" PIP for Agile PLM developed by Sierra Atlantic for SAP ERP solutions provides a SOA-based integration built on open standards that enables:

- Reduced time to market for new products
- Faster time to volume
- Improved product quality
- Reduced supply chain disruption associated with new product introductions
- Predictable and sustainable product and process integration
- Lower total cost of ownership of Enterprise PLM platform
- Reduced implementation risks

Sierra Atlantic is also a Certified Partner in the Oracle PartnerNetwork.

Partners who are able to demonstrate superior product knowledge, technical expertise and a commitment to doing business with Oracle qualify for the Certified Partner levels.

<http://oraclepartnernetwork.oracle.com>

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## ***SYCODE Updates Plug-ins for AutoCAD 2010 and Inventor 2010***

30 March 2009

SYCODE released updated plug-ins for AutoCAD 2010 and Inventor 2010.

"At SYCODE we are committed to providing our customers with plug-ins for the latest CAD platforms", explains Deelip Menezes. "We understand that our plug-ins form a vital part of our customer's workflow. Therefore it is equally vital that we update them even before our customers upgrade to the next version of their CAD platform."

SYCODE offers twenty two plug-ins for AutoCAD which support AutoCAD versions 2000 through to 2010. SYCODE also offers nine add-ins for Inventor which support Inventor versions 9 through to 2010. SYCODE has a self imposed policy of supporting versions of CAD platform as early as is technically possible and feasible. For more information on SYCODE products, please visit

<http://www.sycode.com/products/index.htm>.

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# CIMdata PLM Industry Summary

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## *Synopsys Introduces Discovery 2009 Delivering Faster, Unified Verification Solutions*

6 April 2009

[Synopsys, Inc.](#) introduced the latest generation of its Discovery™ Verification Platform, an integrated verification solution for analog/mixed-signal (AMS) and digital designs. Discovery 2009 delivers verification productivity with new multicore simulation technologies, native design checks and comprehensive low power verification capabilities throughout the platform. The multicore simulation technologies being introduced today with the VCS® functional verification and CustomSim™ unified circuit simulation solutions - both key components of the Discovery platform - deliver up to four times faster verification than previous solutions. With Discovery 2009, verification engineers are benefiting from significantly higher productivity and faster verification closure for their AMS and digital designs.

In March 2008, Synopsys announced a broad multicore initiative to deploy advanced parallel, threaded and other optimized compute technologies across its verification and implementation and manufacturing platforms to reduce time-to-results. The most recent result of this initiative is the expansion of VCS with multicore technology to deliver 2x faster verification performance. VCS multicore technology removes typical verification bottlenecks associated with interactive simulations and long-running tests by parallelizing tasks such as simulation, coverage, assertions and debug across multiple processor cores. The new CustomSim unified circuit simulation solution integrates best-in-class, high-performance circuit simulation technologies with new multicore capabilities in a single, highly-accurate verification solution that delivers up to 4x performance improvement for large analog and mixed-signal circuits. VCS and CustomSim are tightly integrated via Direct Kernel Integration (DKI) for high-performance mixed-signal simulation.

Discovery 2009 incorporates comprehensive low-power verification capabilities at multiple levels of abstraction, from RTL to transistor level. VCS with MVSIM delivers true voltage-aware RTL and gate-level simulation, automated assertions, and comprehensive verification coverage as defined in the new Verification Methodology Manual for Low Power (VMM-LP) book. CustomSim verifies complex power management designs at the transistor level by identifying IR drop, electromigration and standby leakage issues that can impact the reliability and performance of integrated circuits. This latest generation of the Discovery Platform further strengthens Synopsys' technical leadership in low power design and verification.

As a pioneer of native technologies for functional verification, Synopsys delivered SystemVerilog-based assertion checking in 2003. Today, VCS users have the choice of checking their designs with custom assertions or using VCS Assertion IP for use with standard protocols, including OCP, AXI, USB and PCI. With the introduction of CustomSim, Synopsys is extending native design checking to the AMS verification domain. CustomSim provides a set of static and dynamic rule-based circuit checks such as power-down floating gates, missing level shifters, gate-oxide breakdown and forward-biased bulk diodes. Coupled with its high-performance and high-capacity simulation, CustomSim enables engineers to quickly identify design errors before tapeout to avoid costly silicon respins.

"With the increasing complexity and diversity of system-on-chip designs, faster, unified verification solutions are essential," said Bijan Kiani, vice president of Product Marketing at Synopsys. "Discovery 2009 builds on more than a decade of technology innovations, offering unified circuit simulation, multicore performance, native design checks and comprehensive low power verification capabilities to deliver unprecedented performance. As a result, the Discovery Platform delivers higher productivity to enable rapid verification closure for our customers."



# CIMdata PLM Industry Summary

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