

## Contents

<b>CIMdata News</b>	<b>2</b>
Reminder to Vote in Our Opinion Poll Regarding the Change since January of this Year in Your Company's Situation Regarding Your PLM Program Progress	2
<b>Company News</b>	<b>3</b>
Applied Software Wins Autodesk Authorized Training Center Awards	3
COMSOL Community Goes Live	3
Dassault Systèmes and blueKiwi Software: A Joint Vision of Social Innovation	4
Infor Redefines Value for Maintenance with Flex Program	5
Join the 'PDP Award, Andrea Pininfarina' Competition	6
Magma's Vivek Raghavan Named Managing Director of India Operations	7
New Geomagic Online Support Center Delivers 24/7 Knowledge Base and Customer Resources	7
Satyam Unveils Its New Brand Identity – "Mahindra Satyam"	8
Sescoi's New Guide Examines Cost Benefits of Automated CAM	10
SofTech in Business 40 Years	10
3DVIA.com Makes New High-End 3D Content Available	11
Zuken Announces First E <sup>3</sup> .WireWorks VAR	12
<b>Events News</b>	<b>13</b>
Delcam Previews New Programs at Productivity Seminar	13
Designers to Share Real-World Experiences at the 46th Design Automation Conference User Track	14
ESPRIT 2009, by DP Technology, to be exhibited at North American HTEC Conference 2009, Greensboro, N.C., July 15- 17	15
46th Design Automation Conference Offers Six Full-Day Tutorials	15
KOMPAS-3D Was Highly Appreciated at CUTEK 2009	18
Oracle Hosts First Global Oracle Virtual Partner Kickoff	19
Si2 to Host Low Power Coalition Workshop at DAC 2009	20
Think3 Invites You to the Webinar 'TD PLM - Think3's Task Driven Approach to Enabling PLM'	21
<b>Financial News</b>	<b>23</b>
Oracle Reports Q4 GAAP EPS of 38 Cents, Non-GAAP EPS of 46 Cents	23
<b>Implementation Investments</b>	<b>24</b>
Achronix Selects Synopsys as Its Leading EDA Partner	24
Agilent Technologies' Advanced Design System for RF and Microwave High-Power Device Models Receives AMCAD Engineering Endorsement	25
Autodesk Helps Turner Construction Score Big with New Yankee Stadium	26
AVL Employs PBS GridWorks for Powertrain Engineering and Development	27
Dassault Systèmes and Solar Impulse for Sustainable Living	28
Delcam's PowerMILL Helps Owens Industries Make the "Impossible" Possible	29
Eldo Selects Dassault Systèmes' PLM Solutions for its Italian Fashion Label FREESOUL	30
General Dynamics Land Systems Selects Siemens PLM Software for Multi-Cad Product Data Management	31
Li Ning (China) Deploys PTC FlexPLM to Drive PLM Initiatives and Increase Global Competitiveness	31
QuEST Global Selects MSC.Software Engineering Analysis Tools Solutions to Increase Innovation	33
Syncromatics Uses Autodesk Inventor to Provide Smart Transit Information for Riders	33
Two-Time America's Cup Winner Chooses ANSYS Engineering Simulation Solutions to Drive Title Defense	34

# CIMdata PLM Industry Summary

---

Wittur Group Standardizes on SolidWorks Enterprise PDM to Create Global Collaboration Network of Designers	36
<b>Product News</b>	<b>37</b>
Agilent Technologies Accelerates STMicroelectronics' 32-Nanometer RF Readiness with Validation of GoldenGate	37
Autodesk Announces Availability of Autodesk Navisworks 2010 With New Features for Process and Power Customers	38
Autodesk Increases Moldflow Performance Two Fold	39
Autodesk Leverages NVIDIA GPU Computing to Bolster Moldflow Software Performance	40
Autodesk Unveils Inventor Fusion Technology to Help Engineers Speed Time to Market	41
Cadence and Xilinx Simplify SoC Development with Enterprise Verification Capabilities for FPGA Targeted Design Platforms	41
CD-adapco Announces the Latest Release of STAR-CD	42
Dassault Systemes Launches V6R2010	43
Exa Streamlines and Accelerates the Simulation Model Preparation Process with the Release of PowerDELTA	45
IronCAD, LLC Releases IRONCAD Version 11.0 Japanese Edition	47
Lattice Technology Signs as an Adobe Solution Partner	48
LEDAS Ports its Driving Dimensions plugin for Google SketchUp to Mac and Reports 10,000 Downloads of Windows Version	49
Mentor Graphics Announces Logic and Physical Synthesis Support for Xilinx Virtex-6 and Spartan-6 FPGAs	50
New Times Require New IFS Solution for Contractors in the Oil & Gas Industry	51
Open Text Adds Comprehensive Social Media Capabilities to the Open Text ECM Suite, Delivers on Enterprise 2.0	52
Oracle Unveils New Release of Oracle's Agile Product Lifecycle Management (PLM)	54
Siemens PLM Software Launches New Offerings Focused on Productivity for Global Manufacturing Industry	56
Siemens PLM Software Launches Teamcenter 8; Driving Productivity Throughout the Product Lifecycle	57
Siemens PLM Software Launches Tecnomatix 9 to Increase Planning and Manufacturing Productivity	60
SMIC and Synopsys Announce the Availability of Reference Flow 4.0	62
Synopsys and TSMC Deliver Accurate Lithography Verification for 28nm Designs	63
UMC Qualifies Comprehensive Mentor Graphics Silicon Test Suite for 65nm and 40nm IC Reference Flow	64
Virage Logic's AEON® Becomes the First Multi-Time Programmable Embedded Non-Volatile Memory Available on a Standard CMOS Process Qualified to Rigorous Automotive Standard AEC-Q100	64
Zweave Debuts Zdesign 3.0 to Reduce the Cost of Consumer Goods Manufacturing and Design Processes	65

## CIMdata News

### ***Reminder to Vote in Our Opinion Poll Regarding the Change since January of this Year in Your Company's Situation Regarding Your PLM Program Progress***

CIMdata would like your input on how the current economic situation is affecting the progress of your PLM program. Results will be announced soon so [vote](#) now to have your feedback included.

The results of these polls are tabulated as you vote. The results are completely anonymous. If you are currently logged in your vote will not be connected to your personal information in any way. [Click here to return to Contents](#)

## Company News

### ***Applied Software Wins Autodesk Authorized Training Center Awards***

23 June 2009

Each year, Autodesk Authorized Training Center (ATC) Partners and Instructors are recognized with awards based on their instructional performance and customer feedback. This year, Applied Software's trainers were awarded top instructor awards for 2008.

Rick France was named Autodesk Authorized Training Center Instructor of the Year for the Americas Group. He surpassed more than 3,300 other instructors to win top honors. Rick is an industry veteran with more than 28 years experience assisting clients with a wide variety of Autodesk solutions. Rick has also recently been selected by Autodesk as a subject matter expert for AutoCAD MEP and is responsible for rewriting the AutoCAD MEP manuals used by students worldwide.

This is the second year that an [Applied Software](#) instructor was awarded Instructor of the Year accolades. Rick follows fellow trainer Rabi Sidwai who was Instructor of the Year for 2007. Rabi is an Implementation Certified Expert who specializes in Autodesk Revit Architecture and Autodesk Revit Structure.

Applied Software's Revit instructors received the North America award for distinguished performance in Autodesk Revit Architecture. Applied Software's instructors are at the forefront of helping architectural, engineering and construction firms migrate from traditional approaches to BIM.

BIM is a method of generating and managing building data during a building's lifecycle, from design through construction to facility management. The BIM process was developed to bridge communication between the architecture, engineering and construction teams and the owner to streamline workflow, increase productivity and improve quality during the design and construction of buildings as well as provide valuable facility information to building owners.



[Click here to return to Contents](#)

### ***COMSOL Community Goes Live***

24 June 2009

COMSOL, Inc. has launched a new networking site called COMSOL Community. With over 50,000 users of COMSOL software worldwide, the new service provides a convenient way for these engineers and scientists to connect with their colleagues. By joining the community, individuals can tap into the virtually unlimited expertise of tens of thousands of highly skilled modeling and simulation experts.

The COMSOL Community includes a suite of services to facilitate interaction among users and the exchange of models and application expertise. The Discussion Forum is a bulletin-board style newsgroup open to the discussion of any topic related to modeling and simulation. The forum serves as a user-powered help desk providing an extensive scope of application know-how. The Model Exchange allows members of the community to download and upload models. Over a dozen models are available upon the debut of the community. A User Presentation library features over 1,000 user contributed papers and presentation slides. This is a rich resource, and may prove to be valuable to someone who is able to solve their challenges more easily thanks to previously published work available on the site. The Multiphysics Blog provides the latest tips and tricks for users of COMSOL Multiphysics.

# CIMdata PLM Industry Summary

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Member registration is free-of-charge. To join the community, visit  
<http://www.comsol.com/community/>.

 [Click here to return to Contents](#)

## **Dassault Systèmes and blueKiwi Software: A Joint Vision of Social Innovation**

22 June 2009

Dassault Systèmes ([DS](#)) and blueKiwi Software, pioneer of Enterprise Social Software, announced a strategic alliance. As part of the agreement, blueKiwi Software will benefit from Dassault Systèmes' technology and worldwide presence. Dassault Systèmes has also taken a minority stake in blueKiwi Software.

Today, blueKiwis' software platform helps manage secure social networks with partners, customers and colleagues. Its software-as-a-service offering brings a flexible and cost-efficient solution to customers while integrating familiar Web 2.0 services, such as wikis, blogs, forums, RSS and tagging.

The blueKiwi conversation-centric solution complements Dassault Systèmes' Social Innovation vision and V6 platform: The use of social networking in the professional world will revolutionize the way people work and interact. Today's announcement illustrates Dassault Systèmes' and blueKiwis' joint belief in Social Innovation as a new way for industries to transform their business, improve performance and achieve sustainable development.

PLM Analyst Jim Brown, President Tech-Clarity confirms: "Social computing and Web 2.0 capabilities draw more innovative ideas and people into your product innovation, product development, and engineering processes. Social computing capabilities like chat, presence detection, threaded discussion and unified communication can help better enable companies to collaborate."

"The current business environment reveals a growing disconnect between consumer requirements and available products, between employees and their companies. The new consumer buying behavior, as well as different employee working experiences, create new needs and require businesses to adapt. Social Innovation is about connecting individuals, ideas and virtual experiences, and leveraging social networking capabilities. We have imagined online services in order to connect both worlds, thus enabling people to become participants in the innovation processes, either in their role as a consumer or as an employee." said Bernard Charlès, President and CEO, Dassault Systems. "blueKiwi technology facilitates business social networking by using simple and easy-to-implement tools. We have been using blueKiwi technology in our own company and are happy to support its motivated and professional team."

"Dassault Systèmes is for us a strong partner in many ways," said Carlos Diaz, president and CEO, blueKiwi Software. "Not only do we share the same vision but we are also confident that Dassault Systèmes' expertise in 3D and its global presence will help us democratize this technology across all sorts of industries and businesses worldwide."

### **About blueKiwi Software**

[blueKiwi Software](#) is a leading European provider of Enterprise Social Software. The solution enables people-centric organizations to create powerful and secure professional networks where employees, partners and customers can share conversations, ideas, skills, resources and best practice with one another. blueKiwi promotes a culture of collaboration and openness that helps businesses of any sizes increase their sales productivity, foster new ideas and increase staff satisfaction and retention. With

# CIMdata PLM Industry Summary

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operations in France and United Kingdom, the company has a track record of successfully enabling social and business networking for some of Europe's leading companies.

 [Click here to return to Contents](#)

## ***Infor Redefines Value for Maintenance with Flex Program***

22 June 2009

Infor announced [Infor Flex](#), a groundbreaking program that gives customers on maintenance a clear, fast and cost effective path to adopt Infor's latest product innovations. Through a package of software, services and financing, Infor Flex gives customers compelling, low-risk options to upgrade to the latest version of their existing Infor products or exchange to another Infor product, on a like-for-like basis. The decision to upgrade or exchange is completely in the hands of customers based on the needs of their business. Infor Flex minimizes license and/or transaction fees and offers significant benefits, such as a fast, reduced-fee implementation methodology and incentive pricing on additional users, modules or complementary solutions. Infor Flex is available to qualifying customers with active maintenance agreements.

Infor Flex makes it easier for customers to take advantage of Infor's service-oriented architecture (SOA) capabilities through the Infor Open SOA framework, such as [Infor MyDay](#) and new component applications to be released throughout 2009 and beyond. In many cases, customers are entitled to these capabilities at no additional charge as part of their maintenance agreements. Infor Flex provides a rapid, low-cost way for customers to take advantage of these product innovations by making it easier for them to adopt SOA-enabled product releases. By combining reduced fees and rapid implementation services, Infor Flex enables customers to leapfrog to new levels of business agility and functionality at a lower cost and less risk than the rip-and-replace approaches of competing vendors.

"Infor Flex is about delivering value together with innovation, rewarding customers for their loyalty, and giving them ultimate choice and control over the future of their software," said Jim Schaper, Chairman & CEO, Infor. "Infor is setting the new standard in the vendor-customer relationship, allowing customers to flexibly advance their software capabilities without disrupting their business or abandoning existing investments. Our goal is to be their vendor of choice for a lifetime."

At a time when many IT budgets are flat or decreasing, Infor Flex provides Infor customers with strong incentives to upgrade their software, which positions them for future business agility through Infor Open SOA when the economy rebounds.

"Our business has been running on the Infor ERP BPCS solution for over 20 years, and we recently renewed our maintenance contract with Infor after being inactive for several years," said Wayne Gale, CEO, Stokes Seeds. "With this program, as well as the long-term product strategy, Infor has shown us that they are committed to their customers and helping us move forward, on our terms and on our timetable."

Amidst the backdrop of a global recession and widespread discontent over the inflexible, high-cost maintenance policies of many other major enterprise software vendors, Infor Flex differentiates Infor as the leader in delivering value for maintenance to its customers. Last week, Infor also announced [Infor Financing](#), which, for a limited time, offers qualifying customers a zero percent financing option so they can immediately improve their competitiveness through software that's available at flexible and favorable payment terms. Infor Financing is also available as part of the Infor Flex program for qualifying customers.

# CIMdata PLM Industry Summary

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## Additional Resources

Infor Flex Website – <http://www.infor.com/flex/>

Infor Blog: Video Message from Jim Schaper and Flex Overview Presentation – <http://sn.im/flex-blog>

Infor Financing Announcement – <http://sn.im/infor-finance>

 [Click here to return to Contents](#)

## ***Join the ‘PDP Award, Andrea Pininfarina’ Competition***

23 June 2009

Think3 and the Department of Mechanical Engineering at Politecnico di Milano have launched the “PDP (Product Development Process) Award, Andrea Pininfarina”, an international design competition for students designed to encourage originality, creativity and new ideas.

The competition is open to all new, unpublished products designed with ThinkDesign, the CAD solution from think3. Projects will be judged on the basis of their innovative content, the originality of their design and the potential for industrialization of the product. Judging will take into account all aspects of the development process, from the idea through product design and engineering, market analyses, market positioning, choice of materials and the requirements for mass production.

Participation is free and open to individual students or groups of students representing design institutes and university faculties of engineering, design and architecture. Each group can present a single project only and should nominate a representative from inside the group to act as spokesperson and project manager.

All entries to the competition must be submitted by 2 November 2009 at the latest.

The international jury judging the best projects in the final stage will be composed of representatives from Politecnico di Milano, leading names in international industry and managers from think3 and Pininfarina.

“We wanted to mark the thirtieth anniversary of the foundation of think3 with this high profile international competition aimed at the innovators of the future” says Silvano Joly, Vice President Worldwide Marketing at think3. “Dedicating the award to Andrea Pininfarina is our way of commemorating a business leader, guiding a company renowned for tradition and innovation, who knew how to enhance and promote Italian design excellence world-wide. He is a truly good example for the young people of today”.

Pininfarina is a major supplier to the automotive industry of product design and engineering services and the production of niche vehicles. Originally a famous bodyworks in Turin and now the symbol of Italian style and design worldwide, Pininfarina is a long-standing think3 client. “The collaboration between Politecnico di Milano, think3 and Pininfarina is long-standing”, confirms Prof. Umberto Cugini of Politecnico di Milano, “collaboration involves both teaching and research activities and participation in major European projects and the competition fits well into this framework of activities.”

The award consists of a week long training session in Europe. The winner will visit the sites of industry leaders such as the R&D centers of think3 in Italy and France and have the opportunity to increase product development skills and enrich the curriculum studies. The award winner will also be able to visit the Pininfarina Collection at Cambiano (Turin) for a journey through company history from 1930 to the

# CIMdata PLM Industry Summary

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present day.

For more information and details of participation in the PDP Award, Andrea Pininfarina, visit <http://www.think3.com>.

Universities and institutes who are not yet partners of think3 but who would like their students to participate in the competition should contact: Maria Teresa Acri, [maria.acri@think3.com](mailto:maria.acri@think3.com), tel. +39 051-597111.

To enroll in the competition, send your personal details or participating institute details to [pub-info@think3.com](mailto:pub-info@think3.com).

 [Click here to return to Contents](#)

## ***Magma's Vivek Raghavan Named Managing Director of India Operations***

22 June 2009

Magma® Design Automation Inc. announced the appointment of Vivek Raghavan as managing director of the company's India operations. Raghavan will report to Roy E. Jewell, Magma president and chief operating officer, as well as continue his current responsibility as vice president in Magma's Custom Design Business Unit, managing development of physical verification products.

"India is a key part of Magma's overall strategy, and we are looking to Vivek to continue working with our team there to expand the company's role in India's EDA fabric," said Rajeev Madhavan, Magma's chairman and chief executive officer. "He has been one of our senior managers in India and I expect he will work with our talented employees to continue the India operation's success." Nearly 30 percent of Magma's worldwide workforce operates in the company's Bangalore, Mumbai and Noida facilities.

Raghavan joined Magma in 2004 when the company acquired Mojave Design, where he was CEO and a co-founder. Prior experience includes senior engineering management positions with Synopsys and Avant! Corporation, where he developed and managed successful products in areas of physical design and parasitic extraction of integrated circuits. He holds a B.Tech degree in electrical engineering from IIT Delhi and a Ph.D. in electrical and computer engineering from Carnegie Mellon University.

 [Click here to return to Contents](#)

## ***New Geomagic Online Support Center Delivers 24/7 Knowledge Base and Customer Resources***

23 June 2009

Geomagic, a global leader in digital shape sampling and processing (DSSP) software, has launched a new online support center to more efficiently serve, support and engage with customers and partners on a 24/7 basis.

"Geomagic's support has always been a great asset – it's like having a team of researchers helping to solve problems and create individualized solutions," says Jason Luke, an industrial designer with Carlson & Co., a Los Angeles-based engineering and fabrication company. "The online support center extends the Geomagic knowledge base on the web, providing a wealth of resources that are easy to access and use anytime, anywhere."

### **Everything to help customers succeed**

Features of the new Geomagic support center include:

# CIMdata PLM Industry Summary

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- A fully-searchable Knowledge Base with nearly 500 support references created by professionals who have resolved issues for Geomagic customers. The Knowledge Base is constantly updated, expanded and refined to ensure customers have the latest information.
- User guides, tutorials and videos that lead users through the workflows of products such as Geomagic Studio 3D modeling software and Geomagic Qualify 3D inspection software.
- Downloads of products, plug-ins, file converters, drivers and other resources.
- A Troubleshooter that guides customers through a step-by-step process to find answers to critical questions.
- The ability to submit a support ticket and track its status, provide feedback, and contact nearby Geomagic service representatives.

 [Click here to return to Contents](#)

## **Satyam Unveils Its New Brand Identity – “Mahindra Satyam”**

21 June 2009

Satyam Computer Services Limited unveiled its new brand identity, “Mahindra Satyam.” This strategic move paves the way for the emergence of a robust brand, which draws from the core values of the Mahindra Group and the inherent strength of the Satyam brand. The logo will be adopted from the Mahindra Group.

Speaking on the rebranding initiative, Mr. Anand Mahindra, Vice Chairman & Managing Director, Mahindra Group, said, “Customer centricity, high standards of corporate governance, and unimpeachable ethics form the cornerstones of the Mahindra Group. This rebranding exercise symbolizes an amalgamation of the Mahindra Group’s values with Satyam’s expertise, even as it retains that part of Satyam’s identity which signifies commitment, purpose and proficiency of the organization and its people.”

Vineet Nayyar, Executive Vice Chairman, Satyam Board, commenting on the new identity, “This is a significant milestone towards the recovery of the company. We are optimistic that this new brand will re-energize the organization and will be well received by all our stakeholders. With this initiative, we will witness steps by the management to adopt and inculcate the values of ‘performance and customer first’, and ‘good corporate governance and citizenship’, which are drawn from the Mahindra Group. With this synergistic approach, Mahindra Satyam will learn from the best management practices of the Mahindra Group while focusing on nurturing Satyam’s innate skills and capabilities.”

### **Overview of Mahindra Satyam core values:**

#### **Good Corporate Citizenship**

As in the past, we will continue to seek long-term success in alignment with our country’s needs. We will do this without compromising ethical business standards.

#### **Professionalism**

We have always sought the best people for the job and given them the freedom and the opportunity to grow. We will continue to do so. We will support innovation and well reasoned risk taking, but will demand performance.

# CIMdata PLM Industry Summary

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## **Customer First**

We exist and prosper only because of the customer. We will respond to the changing needs and expectations of our customers speedily, courteously and effectively.

## **Quality Focus**

Quality is the key to delivering value for money to our customers. We will make quality a driving value in our work, in our products and in our interactions with others. We will do it “First Time Right”.

## **Dignity of the Individual**

We will value individual dignity, uphold the right to express disagreement and respect the time and efforts of others. Through our actions, we will nurture fairness, trust and transparency.

### About the Mahindra Group

The US \$6.3 billion Mahindra Group is among the top 10 industrial houses in India. Mahindra is the market leader in multi-utility vehicles in India. It made a milestone entry into the passenger car segment with the Logan. Mahindra & Mahindra is the only Indian company among the top tractor brands in the world.

The Group has a leading presence in key sectors of the Indian economy, including the financial services, trade, retail and logistics, automotive components, after-market, information technology and infrastructure development. Mahindra has made an entry in the two-wheeler segment which will see the company emerge as a full-range player with a presence in almost every segment of the automobile industry.

Mahindra's Farm Equipment Sector is the proud recipient of the Japan Quality Medal, the only tractor company worldwide to be bestowed this honour. It also holds the distinction of being the only tractor company worldwide to win the Deming Prize. The US based Reputation Institute recently ranked Mahindra among the top 10 Indian companies in its Global 200: The World's Best Corporate Reputations list.

Mahindra is also one of the few Indian companies to receive an A+ GRI checked rating for its first Sustainability Report for the year 2007-08.

### **About Satyam**

Satyam, a leading global business and information technology services company, delivers consulting, systems integration, and outsourcing solutions to clients in numerous industries across the globe. Satyam leverages industry and functional expertise, leading technology practices, and an advanced, global delivery model to help clients transform their highest-value business processes and improve their business performance. The company's professionals excel in engineering and product development, supply chain management, client relationship management, business process quality, business intelligence, enterprise integration, and infrastructure management, among other key capabilities.

Satyam development and delivery centers in the US, Canada, Brazil, the UK, Hungary, Egypt, UAE, India, China, Malaysia, Singapore, and Australia serve numerous clients, including many Fortune 500 organizations. For more information, see <http://www.satyam.com>.

 [Click here to return to Contents](#)

# CIMdata PLM Industry Summary

---

## **Sescoi's New Guide Examines Cost Benefits of Automated CAM**

23 June 2009

Sescoi's new short guide gives companies essential information and advice to help them evaluate the risk benefits of automation when applied to CAM programming and illustrates the real cost benefits that can be achieved from switching to an automated CAD/CAM system. This free guide can be downloaded from:

[http://www.sescoi.com/fileadmin/pdf/worknc/WhitePaper\\_CAMCAD\\_EN.pdf](http://www.sescoi.com/fileadmin/pdf/worknc/WhitePaper_CAMCAD_EN.pdf)

Drawing from a wide range of sources, including CIMdata research which highlights the lack of trained engineers, the guide examines the benefits that can be gained through the lower levels of skill required to run an automated, rather than interactive, system. This can result in increased flexibility for workers, greater productivity through multi-tasking and shop floor programming, and the easier recruitment of new, lower skilled, staff.

According to the guide, by picking the best system, automation can extend from 2-axis right through to fully automated 5-axis programming while maintaining sufficient flexibility to address exceptional parts. It also reports on how automatic programming shortens lead times - 50% in some cases, encourages consistent manufacturing methods, rationalizes tool usage and raises quality standards.

When properly implemented the raft of benefits produces a very rapid return on investment and, because training, running and commissioning costs are low, the true total cost of an automated CAM system is significantly less than for an interactive one.

In the current economic climate, companies have nothing to lose from consulting the guide to see if they can apply the findings to their own businesses. Customers everywhere are demanding customized products, lower costs, higher quality and shorter delivery times. By combining automated CAM programming with flexibility using the principles outlined in the guide, engineers can ensure they are much better placed to meet these requirements.

 [Click here to return to Contents](#)

## **SofTech in Business 40 Years**

23 June 2009

SofTech, Inc. announced that it is celebrating forty years in business. Since its inception in June, 1969, SofTech has remained true to its original focus of delivering first class software solutions and support to its customers worldwide.

"Known for the people it keeps, SofTech takes pride in understanding the critical challenges faced by its customers and the long term partnerships it continues to establish by providing cost effective solutions backed with the Best in the Business customer service," states Jean Croteau, SofTech's President. "SofTech appreciates that our success is built on valuing both our customers and employees. We are committed to meeting our customers' needs by continuing to deliver innovative solutions that accelerate products and profitability, thereby enabling our customers to achieve superior competitiveness and business performance."

## **About SofTech, Inc.**

SofTech, Inc. (OTCBB: SOFT) is a provider of product lifecycle management (PLM) solutions with its

# CIMdata PLM Industry Summary

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flagship ProductCenter™ PLM solution, and its computer-aided design and manufacturing (CAD/CAM) products, including CADRA® and Prospector™.

Over 100,000 users benefit from SofTech solutions, including General Electric Company, Goodrich, Honeywell, Siemens, Sikorsky Aircraft, U.S. Army, and Whirlpool Corporation. Headquartered in Lowell, Massachusetts, SofTech (<http://www.softech.com>) has locations and distribution partners throughout North America, Europe, and Asia.

 [Click here to return to Contents](#)

## **3DVIA.com Makes New High-End 3D Content Available**

23 June 2009

Dassault Systèmes (DS) announced plans for a high-end [stock 3D content marketplace](#) on its 3D model community [www.3DVIA.com](http://www.3DVIA.com). 3DVIA users, now numbering over 100,000, will be able to interactively preview premium 3D content from providers such as mydeco, DOSCH DESIGN and WireCASE, as well as purchase these ready-to-use models at affordable prices. This content, coupled with the thousands of free, community-generated models already on the site, will continue to make 3DVIA.com a valuable resource for anyone looking to create 3D games, apps or immersive experiences.

Over the next few weeks, the ‘3DVIA Store’ will launch in limited beta and include over 3,000 premium models focused in the category of interior design. Then, in the first week of August, the 3DVIA Store will open in public beta. As of the beginning, all basic 3D models will be made available in several industry standard formats, including: .3dxml, .dae, .obj and .3ds. 3DVIA.com will selectively add premium content partners as well as top artists from the 3DVIA community later this year. Details on how to submit work for inclusion to the 3DVIA Store will be posted on 3DVIA.com when the option is made available.

“Partnering with Dassault Systèmes will bring new user experiences to the mydeco community, allowing them to interact with virtual information and enhance their customer journey,” said Brent Hoberman, executive chairman of mydeco. “Being a preferred 3DVIA marketplace content partner will enable the design and Web experience community to leverage and reuse our very rich catalogue of virtual goods.”

The 3DVIA Store will be showcased for attendees at the Dassault Systèmes' DEVCON 2009 conference in Vélizy, France June 23-24 along with other key 3DVIA technologies. Lynne Wilson, CEO of Dassault Systeme's 3DVIA brand and Brent Hoberman, CEO of mydeco, are scheduled to speak at this event.

“The launch of the 3DVIA Store brings us closer to our vision of making 3D application creation accessible to people no matter what their 3D experience level may be,” said Lynne Wilson, CEO of Dassault Systèmes' 3DVIA brand. “Providing our community with top quality, but more importantly, ready-to-use 3D models is a vital step in the right direction.”

To apply for a beta invitation to the marketplace or learn more about 3DVIA.com, please visit [https://www.3dvia.com/user\\_login.php?type=ecommerce&beta=1&returnUrl=http%3A%2F%2Fwww.3dvia.com%2Fmarketplace](https://www.3dvia.com/user_login.php?type=ecommerce&beta=1&returnUrl=http%3A%2F%2Fwww.3dvia.com%2Fmarketplace)

## **About 3DVIA**

3DVIA is Dassault Systèmes' brand for lifelike 3D product experiences. 3DVIA extends 3D to new

# CIMdata PLM Industry Summary

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users, businesses and consumers in order to create new communities with 3D as the common language. With its open web services-based architecture, it enables high-performance distribution of 3D content. 3DVIA also delivers authoring products that revolutionize 3D product publishing and the Virtools platform for developing interactive, real-time applications.

For more information about 3DVIA, go to: <http://www.3dvia.com>.

 [Click here to return to Contents](#)

## **Zuken Announces First E<sup>3</sup>.WireWorks VAR**

25 June 2009

Following on from the February 2009 launch of E<sup>3</sup>.WireWorks, the Zuken solution which integrates E<sup>3</sup>.series electrical design capability with SolidWorks 3D CAD software, Zuken is delighted to introduce the first E<sup>3</sup>.WireWorks VAR – New Technology CADCAM (NTCADCAM).

Tony Cadwell, head of Zuken's E<sup>3</sup>.series indirect sales team, commented, "E<sup>3</sup>.WireWorks was developed in cooperation with SolidWorks R&D resources in order to allow electrical and mechanical engineers to better access the Zuken solution from the SolidWorks software environment."

"Since the E<sup>3</sup>.WireWorks launch at SolidWorks World earlier in the year we have been actively seeking a VAR partner who is attuned to potential customer needs and clearly understands the electrical design environment and we have found such a partner in NTCADCAM. NTCADCAM were the first to introduce SolidWorks to the UK market in 1996 and have an amazing track record of success behind them."

NTCADCAM Managing Director Richard Cave-Penney said, "We first started discussing the concept of E<sup>3</sup>.WireWorks last year with the Zuken E<sup>3</sup>.series team as we could see a clear industry need. It is very exciting now to be on board and ready to actively market this great solution."

E<sup>3</sup>.WireWorks is additionally integrated with SolidWorks' Enterprise PDM system providing features such as lifecycle support, library and connectivity data exchange as well as integrated 3D-cabinet layout and hierarchical design support.

For more information on E<sup>3</sup>.WireWorks please visit <http://www.zuken.com/e3wireworks>.

To discuss the opportunities for working with Zuken as a third party distributor contact Tony Cadwell by emailing [tony.cadwell@zuken.com](mailto:tony.cadwell@zuken.com).

For general information on E<sup>3</sup>.series visit <http://www.zuken.com/e3>.

## **About NTCADCAM:**

Launched in the UK in 1996, NT CADCAM is the UK's leading provider of the design software solution, SolidWorks. NT CADCAM offers designers and manufacturers complete design & engineering solutions built around SolidWorks. As well as being an established specialist in Product Data Management (PDM), Computer Aided Manufacturing (CAM), Finite Element Analysis (FEA), and Knowledge-Based Engineering (KBE).

## **Contact:**

Richard Cave-Penney

Managing Director

New Technology CADCAM Ltd

[Richard.Cave-Penney@ntcadcam.co.uk](mailto:Richard.Cave-Penney@ntcadcam.co.uk)

01844 295235

 [Click here to return to Contents](#)

## Events News

### ***Delcam Previews New Programs at Productivity Seminar***

22 June 2009

Delcam showcased a number of new products and new versions at a free Productivity Seminar held earlier this month at the Sandvik Canada Technical Center near Toronto.

“Delcam has the largest development team in the CAM industry. Unlike some of our competitors, we have continued with this high level of investment during the current downturn, so we still have a constant stream of new innovations in our programs,” explained Delcam Canada Vice President Mark Cadogan. “We hold these regular events to ensure our customers, and prospects alike, are aware of these new developments so that they can gain the maximum benefit from Delcam’s software.”

Enhancements were shown across Delcam’s broad range of CAM products, including FeatureCAM for feature-based programming of mills, lathes and complex multi-tasking and multi-axis machines; PartMaker for turn-mill equipment and Swiss type lathes, and PowerMILL for high-speed and five-axis machining. Together, these programs comprise the world’s most comprehensive range of CAM software from a single supplier.

The most significant of the new developments was the latest version of PowerMILL, which incorporates support for parallel processing on multi-core computers. The result is even faster calculation times than PowerMILL 9, providing -increased output. Individual toolpaths can be generated more quickly and the user can prepare data in the foreground while the computer calculates toolpaths in the background. Furthermore, the computer will continue with a series of calculations automatically during the user’s breaks or overnight.

Delcam’s range of quality control software was also featured, including the latest release of PowerINSPECT. This incorporates a completely new interface for “simple” measurements. Other enhancements include more flexible handling of geometric data sets, easier methods to add extra data and improved reporting. All these new features make it even faster to spot any errors, saving time and money on having to carry out corrections.

A more recent expansion for Delcam has been into Orthotic and Dental CADCAM solutions. A number of new functions were shown that have been added to these programs recently in response to requests from the various companies that are supporting their development.

The day was rated as a great success by Mr. Cadogan. “We were able to show our software range to existing and potential customers, and to several of our machine tool partners,” he reported. “They all seemed very impressed with what they saw. I am sure those in attendance left with the impression that Delcam are making sure both that our products are here for the long haul and that we have every intention of coming out of the current economic times stronger than most of our competition.”

# CIMdata PLM Industry Summary

---

 [Click here to return to Contents](#)

## ***Designers to Share Real-World Experiences at the 46th Design Automation Conference User Track***

25 June 2009

The 46th Design Automation Conference (DAC) technical program will include a new [User Track](#), featuring over 80 technical papers and posters presented by designers from around the world who will share their experiences creating today's most complex chips. The User Track will cover the latest innovations in tool use and design methodologies across the entire design process, from system design exploration and embedded software synthesis in the front-end, to constraint generation and physical verification in the back-end. The User Track submissions were reviewed by a 20-member industry user committee who selected the 40 technical presentations that will be delivered, and the more than 40 additional presentations included in the poster session on Wednesday, July 29 from 1:30 p.m. – 3 p.m. The [46th DAC](#) will be held July 26 – 31, 2009, at the Moscone Center in San Francisco, CA.

"The User Track at DAC will provide designers a unique opportunity to learn, directly from other designers, how design tools can be applied successfully to solve complex design problems," said Leon Stok of IBM, Co-Chair of the User Track.

The User Track includes nine sessions spread over three days, from Tuesday, July 28 through Thursday, July 30. The sessions will cover the full range of front and back-end design processes from power planning and analysis in the front-end to real-world timing analysis in the back-end.

A session on [Front-End Power Planning and Analysis](#) will include a presentation from a team at NEC Corp. on their use of an automated flow to pre-characterize the power consumption of a set of basic components, starting from their behavioral description in C down to their power estimation at the gate netlist level. A team from Cisco Systems Inc. will describe the use of a power noise analysis tool to analyze system power integrity. Intel engineers from India and Israel will discuss using abstract executable models to verify power management protocols.

In the [Timing Analysis in the Real World](#) session, users representing Atmel Corp, the European Space Agency, FishTail Design Automation, Fujitsu, IBM Corp., Sun Microsystems, Inc. and Texas Instruments, Inc. will share their successful analysis methodologies that lead to timely sign-off. They will address issues related to mixing gate-level and transistor-level timing analysis, applying statistical timing to processor design, effectively merging timing constraints from multiple domains, modeling network variation, and accounting for single event upsets.

In the [Practical Physical Design](#) session, a team from Intel will discuss effective and practical solutions to the ongoing challenge of logic changes that come in late in the development process. A team from Qualcomm, Inc. will describe automation in their semi-custom methodology for the design of the register arrays that are increasingly important to modern designs. Finally, STMicroelectronics engineers will share how they use IP-XACT standard from SPIRIT to enable IP reuse.

The [Advances in Analog and Mixed-Signal](#) session will include presentations from designers at Stanford University, Rambus Inc. and NetLogic Microsystems Inc. on how they have tackled the need for reuse with analog designs. In other presentations, a group from Cadence Design Systems, Inc. and National Chiao Tung University will explain their approach to integrating MEMS in mixed-signal designs, and a team from SySSDSoft, Inc. and Mentor Graphics Corp. will explain how their approach integrates physical design with electrical verification.

# CIMdata PLM Industry Summary

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## User Track Poster Session

The [User Track Poster Session](#), on Wednesday, July 29 from 1:30 – 3 p.m., will feature approximately 40 posters on topics that span both front-end and back-end design. The session will include an Ice Cream Social and will provide an opportunity for informal personal interaction with EDA tool users from many leading companies.

## Registration

Registration for the User Track is available for \$175 for ACM/IEEE members and \$225 for non-members. In addition, full-conference registration includes access to the User Track, the technical paper sessions, exhibits, and more. The deadline for advance registration discount is June 29, 2009. To register for DAC, visit [www.dac.com](http://www.dac.com) or call 1-800-321-4573 in the U.S. to request registration materials.

 [Click here to return to Contents](#)

## ***ESPRIT 2009, by DP Technology, to be exhibited at North American HTEC Conference 2009, Greensboro, N.C., July 15- 17***

25 June 2009

The latest version of computer-aided-manufacturing (CAM) software created by [DP Technology](#) will be on display July 15-17, when ESPRIT® 2009 will be featured at the third annual North American Haas Technical Education Center (HTEC) Conference, in Greensboro, N.C.

Hosted at the Guilford Technical Community College, the conference will feature 12 different educational presentations profiling programs and the best machining practices found in North America. All segments of the HTEC program will be represented, including high schools, colleges and universities — and open forums for each group will take place again this year.

Knowledgeable and approachable ESPRIT representatives exhibiting ESPRIT 2009 at the conference will be happy to help with any questions, and to discuss the new features in the software.

Designed with ease of use in mind, ESPRIT 2009 emphasizes the use of milling or turning in any combination and on any type of machine tool, which means that most improvements to the software are to the benefit of all programmers.

Other new or upgraded features highlighted in the 2009 release include improvement to the facing, open-pocket machining, slot milling, chamfer milling and thread milling cycles.

As a worldwide network and partnership between schools, Haas Automation and Haas Factory Outlets, Haas Technical Education Centers are designed to ensure that schools are supported in offering quality CNC education. In June of 2008, the HTEC network included 724 high schools, technical schools, colleges and universities in Canada and the United States.

 [Click here to return to Contents](#)

## ***46th Design Automation Conference Offers Six Full-Day Tutorials***

22 June 2009

The Design Automation Conference (DAC) will offer six educational, full-day tutorials focused on a variety of design methods. The full-day tutorials will be held Monday, July 27 and Friday, July 31 at this year's DAC. The tutorials will provide CAD professionals, design engineers, their management, as well

# CIMdata PLM Industry Summary

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as academic researchers with an in-depth look at some of the most challenging and topical areas of electronic design, as industry professionals and experts address key trends and issues facing today's EDA industry. This year, tutorial attendees have the opportunity to earn university [Continuing Education Credits](#) in the field of VLSI and Design Automation through new partnerships between DAC and the University of California Santa Cruz (UCSC) Extension, and the University of California San Diego (UCSD) Extension. The [46th DAC](#) will be held July 26 – 31 at the Moscone Center in San Francisco.

"The full-day tutorials are an important part of DAC that offer participants the opportunity to explore a subject in-depth and gain valuable, practical knowledge," said Dennis Sylvester, 46th DAC Tutorial Chair. "This year we're excited to partner with two UC campuses to offer tutorial participants the opportunity to earn university credit for their work."

## **Full-Day Tutorials**

### [Low-Power SOC Design: State of the Art and Directions](#)

Monday, July 27: 8:30 a.m. – 4:30 p.m.

This tutorial will focus on industrial case studies that highlight state-of-the-art techniques to achieve improved energy efficiency, with special emphasis on aggressive scaling of the power supply. Practical challenges will be discussed, such as early power estimation at the architectural level, power verification along the design flow, timing characterization when using dynamic voltage/frequency scaling (DVFS) and power gating with retentive sequential elements.

#### **Instructors:**

Kaushik Roy – *Purdue University, West Lafayette, Ind.*

Mike Keating – *Synopsys, Inc., Mountain View, Calif.*

Bernard Ramanadin – *STMicroelectronics, France*

Matt Severson – *Qualcomm CDMA Technologies, Inc., San Diego, Calif.*

### [High-Level Synthesis for ESL Design: Fundamentals and Case Studies](#)

Monday, July 27: 8:30 a.m. – 4:30 p.m.

Attendees participating in this tutorial will learn about High-Level Synthesis techniques they can use immediately. They will also examine the use and impact of High-Level Synthesis on the design process, from conception through implementation. At the conclusion of the tutorial, attendees also will have gained insight into the long-term direction the industry will take.

#### **Instructors:**

Daniel Gajski – *University of California, Irvine, Calif.*

Jason Cong – *University of California, Los Angeles, Calif.*

Nitin Chawla – *STMicroelectronics, Greater Noida, India*

Sumio Morioka – *NEC Corp., Kawasaki, Japan*

Rodric Rabbah – *IBM Corp., Hawthorne, N.Y.*

Scott Mahlke – *University of Michigan, Ann Arbor, Mich.*

### [Post-Silicon Validation and Runtime Verification: Ensuring Correctness after First Silicon](#)

Friday, July 31: 9 a.m. – 5 p.m.

This tutorial will address state-of-the-art methods for detecting and correcting bugs after the first few silicon prototypes of a design become available. It is intended for microprocessor architects and

# CIMdata PLM Industry Summary

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designers, verification engineers, and CAD professionals interested in a better understanding of current post-silicon validation technologies. It will also benefit designers and verification experts in providing an overview of runtime verification solutions that have recently been proposed by the research community.

## **Instructors:**

Valeria Bertacco – *University of Michigan, Ann Arbor, Mich.*

Rand Gray – *Intel Corp., Hillsboro, Ore.*

Jai Kumar – *Sun Microsystems, Inc., Santa Clara, Calif.*

Albert Meixner – *NVIDIA Corp., Santa Clara, Calif.*

Bart Vermeulen – *NXP Semiconductors, Eindhoven, The Netherlands*

## [CAD: Utilizing the State of the Art, and Beyond, in Parallel Programming](#)

Friday, July 31: 9 a.m. – 5 p.m.

Participants in this tutorial first will be introduced to the state-of-the-art in parallel programming and a number of the most commonly used languages will be introduced, including pThreads, OpenMP, Thread-Building Blocks and MPI. Later participants will be given an overview of the state-of-the-art in applying these technologies to CAD.

## **Instructors:**

Kurt Keutzer – *University of California, Berkeley, Calif.*

Tim Mattson – *Intel Corp., DuPont, Wash.*

Tom Spyrou – *Cadence Design Systems, Inc., San Jose, Calif.*

Michael Wrinn – *Intel Corp., Hillsboro, Ore.*

## [From Nanodevices to Nanosystems: Promises and Challenges of IC Design with Nanomaterials](#)

Friday, July 31: 9 a.m. – 5 p.m.

This tutorial will focus on nanoscale devices and will address major existing nanosystems design principles and identify the key challenges and solutions for bridging the gap between nanodevice research and nanosystem building. The tutorial will conclude with insights for attendees regarding future nanoscale device and nanoscale system research.

## **Instructors:**

Yong Chen – *University of California, Los Angeles, Calif.*

André DeHon – *University of Pennsylvania, Philadelphia, Pa.*

Stuart Parkin – *IBM Corp., San Jose, Calif.*

Subhasish Mitra – *Stanford University, Palo Alto, Calif.*

Deming Chen – *University of Illinois, Urbana-Champaign, Ill.*

## [Functional Verification Planning and Management: Navigating from Specification to Functional Closure](#)

Friday, July 31: 9 a.m. – 5 p.m.

This tutorial will teach state-of-the-art methods for planning, monitoring and assessing verification progress, each an essential step for achieving predictable, successful verification. Attendees will discuss how to choose design features that are candidates for verification using each of these techniques so that the overall verification labor is minimized while verification completeness is maximized.

## **Instructors:**

# CIMdata PLM Industry Summary

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Andrew Piziali – *Consultant, Parker, Texas*

Avi Ziv – *IBM Corp., Haifa, Israel*

Janick Bergeron – *Synopsys, Inc., Ottawa, Canada*

## DAC Tutorials and Continuing Education Credits

All DAC Tutorial sessions are reviewed and approved by UC Extension to confirm that participants will be eligible for CEU credits. For more information on the University of California Santa Cruz (UCSC) Extension program, visit <http://www.ucsc-extension.edu/view/engineering/DAC>, and for more details on the University of California San Diego (UCSD) Extension program, visit <http://extension.ucsd.edu/icdesign>. For more information, or to register for credit, visit [http://www.dac.com/46th/tut\\_credit.html](http://www.dac.com/46th/tut_credit.html).

## Registration

The registration fee for each tutorial is \$200 for student ACM and IEEE members, \$300 for ACM and IEEE members and \$400 for non-members and includes a continental breakfast, lunch, coffee breaks and tutorial notes. The advance conference registration discount deadline is June 29, 2009. For more details on DAC's full day tutorials, and to register, please visit [www.dac.com](http://www.dac.com).

## About DAC

The Design Automation Conference (DAC) is recognized as the premier event for the design of electronic circuits and systems, and for Electronic Design Automation (EDA) and silicon solutions.

 [Click here to return to Contents](#)

## **KOMPAS-3D Was Highly Appreciated at CUTEK 2009**

25 June 2009

Mechanical Computer-Aided Design solution from **ASCON – KOMPAS-3D** was presented at one of the biggest industrial fair in Turkey by company's partner and KOMPAS registered distributor, **Softline**.

From 11<sup>th</sup> till 14<sup>th</sup> of June visitors of CUTEK 2009, an exhibition totally devoted to production technologies and innovations, was able to make acquaintance with KOMPAS solutions for MCAD. A wide range of powerful features enables users to design new products of any complexity very fast and as a result to help growth of industrial enterprise as a whole. Dozens of demo versions of KOMPAS-3D was distributed at the fair, where industrial enterprises specialists, IT experts, design and construction chiefs highly regarded this high-end solution. It was the second presentation of KOMPAS products at the Turkish market - previous experience, Mould Eurasia 2009, which was held in May, has shown a great interest in solutions from ASCON in the country and brought a lot of prospects.

## About KOMPAS-3D

KOMPAS-3D, the Mechanical CAD solution from ASCON provides effective industrial product development, release of design and drafting documentation at affordable and reasonable price.

KOMPAS-3D combines all basic features for Professional, Parametric 3D Modelling, full-scale 2D Design and Drafting opportunities, special add-ons for photo rendering, motion simulation, kinematic and dynamic analysis, import/export from other CAD/AEC/PLM solutions.

KOMPAS solutions are famous for their powerful functionality in the mid-range CAD segment, easy-to-use and learn features and comfortable interface, reasonable price and strong compatibility functions.

# CIMdata PLM Industry Summary

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During the over 20 years history of KOMPAS software solutions over 40 000 seats has been installed.

Download the free version of KOMPAS-3D LT at <http://www.ascon.net>.

## **SPECIAL OFFER FROM ASCON:**

***CAD for RENT – rent KOMPAS-3D at 75 euro per month***

***CAD TRADE IN – exchange your outdated CAD to KOMPAS-3D with 50% discount***

 [Click here to return to Contents](#)

## ***Oracle Hosts First Global Oracle Virtual Partner Kickoff***

24 June 2009

Oracle announced the first Oracle Virtual Partner Kickoff, an online event providing information and strategies for partners to successfully plan and engage with Oracle for the next fiscal year.

For the first time ever, partners across the globe will have access to product messaging, presentations and Webcasts delivered at Oracle's own internal sales kickoff, and will gain critical insight into strategic partner initiatives designed to help them drive more revenue for their businesses through specialization and monetization of Oracle acquisitions.

Partners will also have direct access to critical sales strategies and messages, delivered by Oracle executives including Charles Phillips, Safra Catz and Judson Althoff, and will hear from top Applications, Middleware and Database product development executives on Oracle's strategic focus areas, including Cloud Computing, Open Source and more. Additionally, top regional Alliances and Channels executives will address partners on specific strategies that will help partners in their geographies engage with Oracle in FY10.

All registered Oracle partners are eligible to attend the July 7, 2009 virtual event using their existing Oracle PartnerNetwork login and password. All content will be available on the Oracle PartnerNetwork portal for several quarters following the event. For more information, visit:  
<http://www.oracle.com/partners/index.html>.

## **Supporting Quotes**

“Our partners’ success is our success,” said Judson Althoff, Group Vice President of Worldwide Alliances and Channels, Oracle. “This event symbolizes a new level of transparency between Oracle and our more than 20,000 member-strong global partner community. Globally, partner business accounts for more than 40 percent of our revenue. Empowering our partners with the same information that our own sales teams have helps align our strategies and sales efforts. Ultimately, this should produce the most value for our end customers.”

“Oracle partners are critical for us,” said Ted Bereswill, senior vice president of North America Alliances & Channels at Oracle. “Over the past year Oracle has invested steadily in Enablement 2.0 programs to help our partners continue to learn, grow and excel. In 2010 we will continue this investment and help partners move to new levels of specialization, allowing them to more easily gain expertise in Oracle’s newly acquired products, thereby broadening their own product and service portfolios.”

## **Supporting Resources**

# CIMdata PLM Industry Summary

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[Oracle PartnerNetwork](#)

[Oracle Partners](#)

[Oracle Partner Enablement 2.0](#)

Join the [OPN Group on Oracle Mix](#)

[Follow Oracle Partners on Twitter](#)

[Become a Oracle Partners Fan on Facebook](#)

[Judson Althoff Blog](#)

 [Click here to return to Contents](#)

## ***Si2 to Host Low Power Coalition Workshop at DAC 2009***

23 June 2009

The Silicon Integration Initiative (Si2) announced the Low Power Coalition workshop being hosted at the Design Automation Conference (DAC) show to be held at the Moscone Convention Center in San Francisco, CA, from July 26-31, 2009. The “Low Power Coalition Workshop – Advances in Low Power Design throughout the design flow” will be held on July 26, from 1PM – 4:30PM in Room 130 in the Moscone Convention Center. In consideration of today’s economic conditions, Si2 is pleased to offer this workshop free of charge. Attendees can register at the DAC website:

<http://www.dac.com/46th/onlinereg.html>

The Low Power Coalition (LPC) of Si2 has defined and published a power-aware reference flow that is recommended to the industry, including the power closure points and information available throughout the flow, from Electronic System Level (ESL) through implementation. This flow will be discussed. To aid in automating many of the steps along the tool chain, a draft power intent data model and associated Application Procedural Interface (API) are being defined that will work seamlessly with the OpenAccess API and information model, and we will provide an early view of this data model and API.

In addition, enhancements have been made to extend the Common Power Format (CPF), an Si2 standard first released as v1.0 in March 2007 and v1.1 in September, 2008. The current status and future direction of the format will be presented, including progress since the last Low Power Workshop at DAC 2008, goals and plans for interoperability with P1801, and end-user experiences with the technology developed and implemented so far. A panel will discuss “What’s Next,” to discuss areas in which power flows, models, and formats might be extended to support additional power-aware design approaches, such as adaptive methods, asynchronous methods, etc. A selection of advanced tools that have been developed by some of the EDA companies to improve power-aware design will also be presented.

### **Program:**

#### **Introduction to the Low Power Coalition:**

Gill Watt, AMD – Chairman of the LPC

#### **Low Power Design Interoperability Requirements: Looking Ahead!**

Qi Wang, Cadence, Vice Chair of the LPC Technical Steering Group

#### **LPC Modeling Requirements for a Low Power Flow**

# CIMdata PLM Industry Summary

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Jerry Frenkil, Sequence, Member, LPC Modeling Working Group

## LPC Data Model and API

Judith Richardson, AMD, Member, Data Model and API WG

## End-user Adoption Aids

Jake Buurma, Si2

## EDA Tool Developers for Low Power

Steve Carlson, Cadence Design Systems

Jerry Frenkil, Sequence Design, Inc.

Kiran Vittal, Atrenta, Inc.

Anmol Mathur, Calypto Design Systems, Inc.

## Panel Discussion (all presenters)

### “What’s next in Low Power”

Other Si2-sponsored events at DAC include the “Design for Manufacturability Workshop - DFM Challenges at Sub-45nm Design” on July 27, from 1PM-3PM and the Si2 Member/Guest Meeting on July 27, from 6PM-8PM. Both of these events are also free of charge and open to all.

Links to more specific agendas and registration information can be found here:

<http://www.si2.org/?page=11>

 [Click here to return to Contents](#)

## ***Think3 Invites You to the Webinar ‘TD PLM - Think3’s Task Driven Approach to Enabling PLM’***

22 June 2009

### **Join the Webinar: June 29 - 2.00 pm (GMT)**

In today’s competitive business arena, where new products are introduced to the market faster than ever before, PLM (Product Lifecycle Management) solutions offer the required flexibility, agility and speed to the design process and considerably reduce the time lag from concept to product release.

Consolidated experience in the product development sector has enabled think3, the multinational company currently celebrating 30 years of activity in the CAD and PLM sector, to develop a new state-of-the-art PLM application: the TD PLM suite.

TD PLM (Task Driven PLM) is a new web-based suite which will help companies better manage their product’s lifecycles in this new economical global contest, and reach the next level of innovation.

Based on a secure, independent Web 2.0 platform, TD PLM has been developed with the very latest technology. The system is based on a three-tier architecture with web-based clients and integrates easily with most ERP, MRP and CAD systems because it uses the same graphic user interface (GUI).

The innovative Task Driven interface guides users and novices step-by-step through PLM activities on simple web pages. This feature is particularly important in cases where the user wants to make full use of the power offered by a web-based PLM by giving controlled access to its data to outside offices, customers and suppliers.

# CIMdata PLM Industry Summary

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**Discover powerful TD PLM functionalities, by joining the free think3 Webinar on June 29**

The TD PLM presentation also includes a speech by Peter Bilello, CIMdata Vice President (the independent global PLM consulting company), who will provide an overview on current and future trends in the PLM market.

**Title:** TD PLM, think3's Task Driven Approach to Enabling PLM

**Date:** Monday, June 29, 2009

**Time:** 2:00 pm - 3:00 pm (GMT)

For information and registration, send an email to [pub-info@think3.com](mailto:pub-info@think3.com) with 'TD PLM Webinar Registration' as the subject

After registering you will receive a confirmation email containing information about joining the Webinar

## **Agenda:**

**2:00 pm (GMT) - Think3: 30 years of history in the Product Development Process**

Stefano Cinti Luciani, VP Program Management think3

**2:05 - PLM Market Analysis Report**

Peter Bilello, Vice President CIMdata

**2:20 - TD PLM. The new Web Application Suite for the Implementation of a PLM system**

Sergio Salsedo, R&D Director think3

**2:30 - TD PLM demo**

Maurizio Sebastianis, Chief Architect think3

**3:00 - Conclusion**

Stefano Cinti Luciani

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

**think3, Italian branch office of think3 Inc.**

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 [Click here to return to Contents](#)

## Financial News

### ***Oracle Reports Q4 GAAP EPS of 38 Cents, Non-GAAP EPS of 46 Cents***

23 June 2009

Oracle Corporation announced that fiscal 2009 Q4 GAAP earnings per share were \$0.38, down 4% compared to last year. Oracle's Q4 results were impacted by the reduced value of foreign currencies when compared to US dollars. Without this impact, Oracle's Q4 GAAP earnings per share would have been up 9% to \$0.42. Fourth quarter GAAP total revenues were down 5% to \$6.9 billion, while quarterly GAAP net income was down 7% to \$1.9 billion. GAAP new software license revenues were down 13% to \$2.7 billion. GAAP software license updates and product support revenues were up 8% to \$3.1 billion. GAAP operating income was down 3% to \$2.9 billion, and GAAP operating margin was up 100 basis points to 42%. GAAP operating cash flow on a trailing twelve-month basis was \$8.3 billion, up 12%.

Fourth quarter non-GAAP earnings per share were down 1% to \$0.46. Without the \$0.05 per share impact of the reduced value of foreign currencies when compared to US dollars, Oracle's Q4 non-GAAP earnings per share would have been up 9% to \$0.51. Non-GAAP total revenues were down 5% to \$6.9 billion, while non-GAAP net income was down 5% to \$2.3 billion, compared to the same quarter last year. Non-GAAP operating income was down 1% to \$3.5 billion and non-GAAP operating margin was up 240 basis points to 51%.

For fiscal year 2009, GAAP earnings per share were up 3% to \$1.09. Oracle's fiscal year 2009 results were impacted by the reduced value of foreign currencies when compared to US dollars, reducing fiscal year 2009 GAAP earnings by \$0.11 per share. Without this impact, our fiscal year 2009 GAAP earnings per share would have been up 13% to \$1.20. Fiscal year 2009 GAAP revenues were up 4% to \$23.3 billion, while annual GAAP net income was up 1% to \$5.6 billion. Total GAAP new software license revenues for the year were down 5% to \$7.1 billion. GAAP software license updates and product support revenues were up 14% to \$11.8 billion. GAAP operating income was up 6% to \$8.3 billion, and GAAP operating margins were up 80 basis points to 36% in fiscal year 2009.

Fiscal year 2009 non-GAAP earnings per share were up 11% year over year to \$1.44. Without the \$0.11 per share impact of the reduced value of foreign currencies when compared to US dollars, Oracle's fiscal year 2009 non-GAAP earnings per share would have been up 19% to \$1.55. Annual non-GAAP revenues were up 4% to \$23.5 billion, while annual non-GAAP net income was up 9% to \$7.4 billion compared to fiscal year 2008. Total non-GAAP new software license revenues for the year were down 5% to \$7.1 billion. Non-GAAP software license updates and product support revenues were up 14% to \$12.0 billion. Non-GAAP operating income was up 12% to \$10.9 billion, and non-GAAP operating margins were up 350 basis points to 46%.

In addition, Oracle's Board of Directors declared a cash dividend of \$0.05 per share of outstanding common stock to be paid to shareholders of record as of the close of business on July 15, 2009, with a payment date of August 13, 2009. Future declarations of quarterly dividends and the establishment of future record and payment dates are subject to the final determination of Oracle's Board of Directors.

"Adjusted for the substantial movement in the US dollar exchange rate this fiscal year, which is beyond our control, we grew non-GAAP earnings per share by 19 percent for the year," said Oracle President

# CIMdata PLM Industry Summary

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Safra Catz. "That's an amazing achievement given what's been happening in the global economy over the past twelve months."

"We executed substantially better than we expected on both the top and bottom line for the quarter," said Oracle CFO Jeff Epstein. "We grew Q4 non-GAAP operating margins by a faster than expected 240 basis points to over 51 percent. That helped us generate \$7.7 billion in free cash flow for fiscal 2009."

"We grew faster and took market share from SAP in every region around the world," said Oracle President Charles Phillips. "In Europe our applications business grew 5 percent in constant currency versus negative 27 percent growth for SAP in their most recent quarter. Historically Europe has been an SAP stronghold, but these results prove that we can compete and beat them everywhere."

"The Exadata Database Machine is well on its way to being the most successful new product launch in Oracle's 30 year history," said Oracle CEO Larry Ellison. "Several of Teradata's largest customers are performance testing -- then buying -- Oracle Exadata Database Machines. In a recent competitive benchmark, a Teradata machine took over six hours to process a query that our Exadata Database Machine ran in less than 30 minutes. They bought Exadata."

## **Q4 Earnings Conference Call and Webcast**

Oracle will hold a conference call and web broadcast today to discuss these results at 2:00 p.m. (PDT) / 5:00 p.m. (EDT). You may listen to the call by dialing (866) 237-3252 or (719) 457-1018, Passcode: 617178. To access the live web broadcast of this event, please visit the Oracle Investor Relations website at <http://www.oracle.com/investor>. Please hold down your control key while pressing refresh to ensure that the web link is visible.

## Supplemental Financial Tables

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

 [Click here to return to Contents](#)

## Implementation Investments

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

24 June 2009

Synopsys, Inc. announced that Achronix Semiconductor Corporation, maker of ultra-fast field-programmable gate arrays (FPGAs), has signed an expanded business agreement to establish Synopsys as its leading EDA partner for the design of its next-generation FPGAs. As a result of the new multi-year agreement, Achronix has consolidated on Synopsys' Galaxy™ Implementation and Discovery™ Verification Platforms throughout their internal development and design flow.

"After an exhaustive evaluation, we selected Synopsys' integrated tool suite for their leading support of advanced processes and their flexible customer support capability," said John Lofton Holt, founder, chairman and CEO, of Achronix. "By leveraging an integrated Synopsys flow, we can more efficiently drive our designs towards advanced process nodes and maintain our path of delivering unprecedented FPGA performance to our customers."

With this expanded agreement, Achronix has chosen products across Synopsys' broad portfolio,

# CIMdata PLM Industry Summary

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including IC Compiler place-and-route technology; Design Compiler® Ultra synthesis; Formality® power-aware equivalence checking; PrimeTime® SI signal integrity analysis ; Star-RCXT™ parasitic extraction; Hercules™ physical verification; TetraMAX® automatic test pattern generation; the VCS® MX, HSPICE®, and HSIM® simulators for analog and digital verification; and DesignWare® Library's portfolio of synthesizable and verification IP.

"Achronix's focus on delivering leading-edge chips that combine the speed of ASICs with the flexibility of FPGAs is an excellent match to Synopsys' broad technology portfolio," said John Chilton, senior vice president of marketing and strategic development at Synopsys. "We look forward to helping them continue to innovate with unique programmable solutions at breakthrough levels of performance."

 [Click here to return to Contents](#)

## ***Agilent Technologies' Advanced Design System for RF and Microwave High-Power Device Models Receives AMCAD Engineering Endorsement***

24 June 2009

Agilent Technologies Inc. and AMCAD Engineering announced that AMCAD has endorsed Agilent's [Advanced Design System \(ADS\)](#) electronic design automation (EDA) software for the development of advanced high-power device models. Using ADS RF EDA tool, AMCAD engineers have achieved a significant breakthrough in RF/microwave device modeling -- successfully modeling hot and cold operation modes of high-power devices such as amplifiers and mixers.

Thanks to Agilent's ADS software, AMCAD is now able to provide its wireless communications and aerospace/defense customers with advanced high-power device models that are:

- well conditioned -- the models enable fast simulation without convergence issues;
- accurate in DC and the RF domain, from linear to highly nonlinear operating conditions;
- complete -- the models include self-heating phenomena, dynamic thermal behavior and trapping effects; and
- versatile -- the models are usable for harmonic balance multi-tone and transient analysis.

"With a number of system integrators now externalizing components, the RF/microwave design chain has changed," said Saliou Dieye, EMEA marketing manager with Agilent's EEsof EDA division.

"Agilent EEsof's mission is to enable a smooth design chain in which both stakeholders can easily and reliably exchange design information. Our collaboration with AMCAD -- both in design and measurement -- brings tremendous value to our common customers."

"While electro-thermal effects and pulsed-mode operation modes are important parameters in high-power devices, they are not easily accounted for in simulation models," said Stéphane Dellier, RF and Microwave project leader with AMCAD Engineering. "Through the ADS platform, with its unique set of features oriented toward our advanced high-power device models, our engineers can now effectively express all of their know-how. The resulting models have our highest confidence, as well as that of our customers, such as Thales Alenia Space."

"Maintaining a high competitive level in the difficult space industrial market, while saving both time and cost, today demands that designers succeed with their designs in 'one shot,'" said Dominique

# CIMdata PLM Industry Summary

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Langrez, head of the Microwave Building Block Design Group at Thales Alenia Space. "Using realistic and accurate component models is one key to achieving this goal and is especially critical for us in the MMIC design field. AMCAD provides us with the complex electrical models (such as linear, non-linear, thermal, and hot or cold transistor) we need to meet this goal, directly implemented in the commercial CAD software ADS."

ADS is a global leading electronic design automation platform for RF, microwave and high-speed digital design in wireless communications and networking, signal integrity, and aerospace-defense applications, enabling RF system, MMIC and multitechnology (e.g., laminate, module, SiP and PCB) RF design. The ADS platform comprises solutions for design entry, synthesis, system, circuit, 3-D EM simulation, analysis/post processing and a complete flow to manufacturing -- including layout, enhanced foundry-certified PDKs, LVS and DRC -- all in one single platform. It easily integrates with the designers' enterprise IC or PCB framework. Additional information is available at [www.agilent.com/find/eesof-ads](http://www.agilent.com/find/eesof-ads).

## **About AMCAD Engineering**

AMCAD Engineering provides solutions to today's RF and microwave challenges. It is dedicated to providing the most advanced solutions and tools in test and modeling to the RF and microwave IC market. More information on AMCAD Engineering is available at [www.amcad-engineering.com](http://www.amcad-engineering.com).

 [Click here to return to Contents](#)

## ***Autodesk Helps Turner Construction Score Big with New Yankee Stadium***

24 June 2009

Autodesk, Inc. has announced that [Turner Construction Company](#) utilized [Autodesk Navisworks Manage](#) software as an element in the Building Information Modeling (BIM) process used to complete the new Yankee Stadium project. As part of its construction management process, known as Virtual Trade Coordination (VTC), Turner used the latest BIM processes and Autodesk Revit-based products and Navisworks Manage software to help streamline workflow and collaboration among subcontractors.

"Turner is experiencing tremendous growth in the use of BIM during both preconstruction and construction phases as a tool to help us dramatically improve the building process while reducing field initiated RFI's and changes," said Jim Barrett, manager of virtual construction technologies for Turner Construction. "The Yankee Stadium project typifies our commitment to BIM and the tangible and measurable benefits we - and more importantly, our clients - are experiencing in schedule, quality, cost and safety improvements on all our BIM projects across the United States."

## **Turner's Virtual Trade Coordination Process Applied to Yankee Stadium Project**

Turner Construction Company effectively applied its experience to foster a results-driven, multi-disciplinary collaboration on the Yankee Stadium project. The company has already managed more than 100 BIM-based projects at an estimated value of \$20 billion as well as purchasing and using 400 licenses of Navisworks Manage throughout the firm.

BIM design software was used to create 3D models of every major building component - from architectural and structural elements to HVAC, electrical, plumbing and fire protection systems. With Navisworks Manage software as an essential component of the company's VTC process, digital data from multiple design and engineering software sources were combined in a single "virtual" model of the stadium that assisted the Turner team and all of the project's subcontractors in more quickly identifying

# CIMdata PLM Industry Summary

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systems spatial clashes and conflicts to be fixed before the construction phase. This early, coordinated, real-time, whole-project review and analysis helped to minimize costly changes and unexpected scheduling delays in the field.

"We have a long-standing relationship with Turner Construction Company, and together we've seen the benefits of BIM and a collaborative project delivery process that includes the entire team, from owners to trade subcontractors," said Jim Lynch, vice president of AEC industry marketing at Autodesk. "We are pleased that Autodesk Navisworks Manage was a component in the success of one of the most high-profile building projects of the year - the new Yankee Stadium."

Navisworks Manage software enhances the review process by enabling design and construction management professionals to aggregate existing design data for visualization, simulate scheduling, and identify interferences to improve productivity and project quality. Design data created in BIM applications such as Autodesk Revit-based products can be combined with geometry and information from other design tools and reviewed in real-time as an entire 3D project. The combination of Navisworks Manage software's precise fault-finding analysis, interference management, dynamic project schedule simulation, and more photorealistic visualization enables advanced project analysis. In addition, entire project models, of various file sizes and formats, can be published and viewed in NWD and 3D DWF file formats for better team collaboration.

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

 [Click here to return to Contents](#)

## ***AVL Employs PBS GridWorks for Powertrain Engineering and Development***

23 June 2009

Altair Engineering, Inc. announced that [AVL](#), the world's largest privately-owned and independent company for the development of powertrain systems, has selected PBS Professional the flagship product of PBS GridWorks to manage their engineering workload. Already a long-term customer of HyperWorks, Altair's engineering simulation software platform, AVL has expanded their adoption of Altair technologies with the addition of PBS Professional.

PBS Professional, Altair's flexible, on-demand computing environment will allow AVL to easily share mixed computing resources across geographic boundaries to manage mechanical and thermal stress analyses in the development of engine components.

"PBS Professional's ease of installation and maintenance as well as Altair's renowned professional support and consulting services were the main reasons for us to choose PBS Professional," said Gunter Bachler, Senior System Administrator CAx, Product Development IT at AVL, Graz. "PBS Professional's advanced job management environment enables us to maximize the utilization of our cluster compute power at a very competitive price. It also provides the advanced integrated scheduling strategies that we need for mapping complex job requirements into heterogeneous computing environments."

"We are glad to see AVL as one of our premium PBS Professional customers in Europe," said Dr.

# CIMdata PLM Industry Summary

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Jochen Krebs, director enterprise solutions sales, Altair Engineering, GmbH. "A growing portion of our European and international HyperWorks customers realize the multiple advantages Altair has to offer, not only for CAE applications but also in the area of grid computing. PBS Professional helps companies to use their compute resources more efficiently and increases productivity even in the most complex computing environments."

 [Click here to return to Contents](#)

## **Dassault Systèmes and Solar Impulse for Sustainable Living**

26 June 2009

Dassault Systèmes announced, it was proud to be a part of the Solar Impulse project. Who would have thought that one day we would be able to fly day and night in an aircraft propelled uniquely by solar energy without using any fuel or generating pollution? For the past few years, Solar Impulse SA has been using Dassault Systèmes software solutions to create an airplane that makes this dream a reality.

A pioneer in the aerospace industry with the introduction of 3D to aircraft design and cutting-edge solutions that enabled the virtual rollout of Boeing's 787, Dassault Systèmes remains true to its core values of innovation and sustainability through its partnership with Solar Impulse. Solar Impulse used Dassault Systèmes' 3D virtual design solution, CATIA, to create a complete 3D digital model of the aircraft, including the position of the cockpit, aerodynamics specifications, all the way down to the smallest bolts. Solar Impulse also used Dassault Systèmes' ENOVIA SmarTeam to manage the huge volume of parts associated with the design, a significant job given a typical aircraft is composed of 200,000 to 3 million parts.

Because Solar Impulse is a new and complex aerospace invention, it was critical for engineers to be able to test a wide range of design configurations, including various combinations of solar panels and lightweight composites structures. For example, Solar Impulse engineers used CATIA to define the best allocation of solar cells to comply with the energy specifications. The engineers also used CATIA for ergonomics analysis to optimize the aircraft pilot's comfort in various positions.

Dassault Systèmes is dedicated to helping innovators like Solar Impulse create products and transportation solutions for sustainable living. Building and testing concepts virtually in 3D saves resources and enables the level of experimentation necessary for true innovations. Industrials can also manage a growing range of compliance issues early-on in the design phase. We cannot change the habits of people today, but we can change the everyday products and transportation solutions we use. According to the European Union, an estimated 80 percent of a product's environmental impact is determined in the product conception phase.

"Creating eco friendly products is a key challenge. At Dassault Systèmes, because we have the ability to completely digitalize the creation process, we are creating at the heart of our design tools the technologies that would enable users to assess the environmental impact of their products," says Bruno Delahaye, VP, Eco Sustainability Initiatives, Dassault Systèmes." In the near future we will be releasing platforms to help our customers understand what the impact of the product they are building is. This is key because as Software as a Service becomes the norm, this means that we will give access to a wide range of people the technologies needed to help make their products eco-friendly."

For more information on sustainability and Green PLM, visit the blog 3D Perspectives.  
[perspectives.3ds.com/tag/green-plm/](http://perspectives.3ds.com/tag/green-plm/)

# CIMdata PLM Industry Summary

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For more information on Dassault Systèmes' CATIA virtual design solutions, visit <http://www.catia.com>

 [Click here to return to Contents](#)

## ***Delcam's PowerMILL Helps Owens Industries Make the "Impossible" Possible***

24 June 2009

Any manufacturing company that claims to be able to make the “impossible” possible needs some powerful software and Owens Industries is no exception. The company, which is based in Oak Creek, Wisconsin, uses Delcam’s PowerMILL CAM software to produce complex parts to very tight tolerances that its competitors are incapable of achieving.

Owens provides its machining services a wide range of industries including oil and gas, aerospace and medical. “One thing that all our customers have in common is that they all have highly-demanding requirements,” claimed Mark Plesnik, Vice President of Owens. “Quality, rather than cost, tends to be their main priority.”

Owens specialises in small to medium production runs. “The longest run we have ever done was 1,000 parts but we typically make only five or ten components of any design,” said Mr. Plesnik. The company also specialises in exotic materials, in particular titanium and Inconel, and in smaller, more complex parts. The combination of complex shapes and difficult-to-machine materials means that customers often come to Owens after a project has failed or has been turned away by other shops.

It was one such project that led to Owens move to PowerMILL – a particularly challenging safety valve for down-hole oil and gas drilling. As with many of Owens projects, the customer had already tried to source the parts from two other possible suppliers. The first had given up before completing a single part; the second produced three components but they all failed their quality tests. More unusually, even the staff at Owens were having difficulties in meeting the tolerances required with their existing software

“We were really struggling with the project so we approached our local Delcam reseller, Programming Plus, to see if the people there could do any better,” admitted Mr. Plesnik. “We promised to buy two seats of PowerMILL if they could provide programs that would machine the parts to the strict tolerances we needed. The results were immaculate and our customer was delighted. We knew that we couldn’t have completed the project without the Delcam software so we were happy to make the purchase.”

“Looking back, I think we had realised for a while that we had needed new software ever since we had added our simultaneous five-axis machines,” added Mr. Plesnik. “Since we installed PowerMILL, we have been able to do everything much more quickly. With our previous software, a typical programming job used to take a week. Now, if anything takes two days, we think that’s a long time. In addition, the toolpaths are more efficient so the parts are produced more quickly.”

One example of the increased speed was a project to produce 25 parts for an aircraft braking system. Owens had been making similar components for the customer for fifteen years but the new project required a modified design. “With our previous software, the new parts would have taken two months to produce,” said Mr. Plesnik. “With PowerMILL, because of the faster programming and the quicker machining, they took two weeks.”

Another benefit of the increased accuracy with PowerMILL has been a reduced need for EDM finishing. Many more parts can be milled to the required finish, so saving the cost and time that used to be needed to produce the specified surface quality with EDM.

 [Click here to return to Contents](#)

## **Eldo Selects Dassault Systèmes' PLM Solutions for its Italian Fashion Label FREESOUL**

25 June 2009

Dassault Systèmes ([DS](#)) announced that Eldo S.r.l., a Florence, Italy-based holding company, has selected Dassault Systèmes' ENOVIA Apparel Accelerator for Design and Development to bring new clothing lines for its FREESOUL brand of denim products to the market.

Launched in 1994, FREESOUL is one of Europe's top denim fashion brands. The company creates and markets denim wear, casual pants, skirts, dresses, tops, jackets, knitwear and accessories to independent retailers and retail chains in more than 25 countries worldwide. Using the ENOVIA Apparel Accelerator will enable FREESOUL to more efficiently and cost-effectively take products from concept to store – giving consumers the right products at the right time.

Ernesto Barbieri, Eldo's chief executive officer, explains, —FREESOUL employees are passionate and committed to delivering the latest fashion trends to consumers. In order to meet a relatively short window of opportunity at retail, we will use the ENOVIA Apparel Accelerator to improve global collaboration with our production centers and vendors, enabling them to stay ahead of the latest consumer trends and meet time to market requirements

Based on the DS V6 architecture, the ENOVIA Apparel Accelerator for Design and Development can be deployed in a matter of weeks and comes complete with industry-specific best practices for apparel design including pre-defined work processes, industry-specific data models, reports, role-based user interfaces and document management capabilities. Leveraging this off-the-shelf PLM solution will enable FREESOUL to reduce sample development time and increase seasonal options. It will also enable the company to collaborate with suppliers around the world, tracking prices to control costs and improve margins.

—Customers like Eldo's FREESOUL brand are feeling pressure to deliver more styles in less time and need a solution that will support their unique industry needs, said Michel Tellier, CEO, ENOVIA, Dassault Systèmes. —The Apparel Accelerator was specifically designed to address the needs of the apparel and footwear industries while enabling companies to standardize all of their product development procedures throughout the enterprise.

### **About FREESOUL**

Eldo S.r.l., Florence, a 100% subsidiary of Eldo Holding S.r.l., Prato, is the operating business of the brand name FREESOUL, a Top-10 European denim fashion label. The company designs, creates, markets and services casual and denim wear such as trousers (five-pocket denims, chinos and workers), skirts, dresses, tops, shirts, sweatshirts, jackets and knitwear, including accessories, to independent retailers and retail chains in over 25 countries worldwide under the brand name FREESOUL©. It excels from its competition by offering creative, fashionable products in the affordable luxury segment. In 2007, the company received the —Musik Express Award for its distinctive and creative denim designs. In 2007 FREESOUL© generated sales of approx. EUR 35 million with some 70 employees.

 [Click here to return to Contents](#)

# CIMdata PLM Industry Summary

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## ***General Dynamics Land Systems Selects Siemens PLM Software for Multi-Cad Product Data Management***

24 June 2009

[Siemens PLM Software](#) announced that General Dynamics Land Systems (GDLS), a leading provider of land and amphibious combat systems, selected [Teamcenter® software](#), Siemens PLM Software's digital lifecycle management solution, as its single product data management (PDM) platform to enhance efficiency in product development, engineering processes and data management.

GDLS will use Teamcenter to replace and consolidate several existing systems including Windchill®, Pro/INTRALINK® and CMstat®. GDLS will use Teamcenter to manage multiple computer-aided design (CAD) systems including [NX™ software](#) and Pro/E® software.

Teamcenter will provide GDLS with a single source of product knowledge across the subsidiary enabling downstream use of CAD data for manufacturing processes both internally and with partners and suppliers. In addition, GDLS plans to use Teamcenter for visualization and to directly link engineering with manufacturing and support departments. Teamcenter will also allow GDLS to standardize its change management process to eliminate dual data entry, reducing both cost and product development time.

“General Dynamics Land Systems is committed to using the most advanced technology such as Siemens PLM Software’s Teamcenter to deliver best-in-class products to our customers,” said Mike Bolon, senior vice president of enterprise strategy and technology, General Dynamic Land Systems. “The multi-CAD management capability of Teamcenter combined with its ability to provide a single source of product data for internal and external use will give GDLS a competitive advantage.”

“General Dynamics Land Systems’ decision to use Teamcenter as its single PDM platform to replace and consolidate existing systems is a testament to our commitment to provide a robust, open PLM platform,” said Tony Hemmelgarn, senior vice president, Industry Verticals, North America, Siemens PLM Software. “Teamcenter will provide General Dynamics a solution that enhances collaboration and innovation while delivering design anywhere, build anywhere capabilities that are required for today’s market.”

### **About General Dynamics Land Systems**

General Dynamics Land Systems, headquartered in Sterling Heights, Mich., is a subsidiary of General Dynamics Corporation. The company designs, builds and supports a full spectrum of land and amphibious combat and tactical systems, subsystems and components for U.S. and international customers. The business employs approximately 10,000 employees worldwide and is the defense industry's largest supplier of armored military vehicles. General Dynamics, headquartered in Falls Church, Va., employs approximately 92,900 people worldwide. The company is a market leader in business aviation; land and expeditionary combat systems, armaments and munitions; shipbuilding and marine systems; and information systems and technologies. More information about General Dynamics is available online at [www.generaldynamics.com](http://www.generaldynamics.com).

 [Click here to return to Contents](#)

## ***Li Ning (China) Deploys PTC FlexPLM to Drive PLM Initiatives and Increase Global Competitiveness***

22 June 2009

# CIMdata PLM Industry Summary

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[PTC](#) announced that Li Ning (China) Sports Goods Co. Ltd., a leading sporting goods provider, has become the first Chinese manufacturer to adopt PTC's retail, footwear, and apparel solution, FlexPLM™. Li Ning (China) will standardize on FlexPLM as its collaborative product lifecycle management (PLM) system to help drive the success of its corporate expansion and globalization initiatives. FlexPLM is an intuitive, highly scalable and fully configurable Web-based solution based on PTC's Windchill® technology that enables global product teams to work more efficiently and productively. Li Ning (China) will use FlexPLM for line planning, product data management and change management. With the out-of-the-box capabilities of FlexPLM, Li Ning (China) expects to significantly increase its product development efficiency and enhance the quality of products and materials through accurate specifications.

Li Ning (China) has a proud history of supporting Chinese athletics and has always worked closely with the Chinese Olympic Committee to advance the success of its country's athletes through sponsorship of sporting events. The company views product development similar to a highly competitive, never-ending, competition and has committed itself to achieving the highest standards of excellence. Recognized for its innovation, in 1998 Li Ning (China) became China's first domestic company to create a design and development center for apparel and footwear and is known as the leader in the Chinese sporting goods industry.

As a result of rapid growth, Li Ning (China) identified the need to replace its current manual processes for line planning, product design, specification development, material development, sample management, calendar management, and other operational systems which had become incapable of supporting the company's dynamic product management needs. The company sought a technology solution that would help resolve its challenges of how to manage, collaborate on and share key product designs, materials utilization, production tracking, packaging, and production cost information across a distributed global environment.

Li Ning (China) chose FlexPLM because of its capabilities in seasonal planning, product line development, specification creation and sample management. By combining PTC's solution with Li Ning's (China) progressive management philosophy and industry experience, Li Ning (China) expects to optimize key product development processes, establish an integrated and accurate data management platform, improve product development efficiency and accuracy, and increase its ability to quickly and efficiently respond to market needs and popular trends.

"Historically, Li Ning (China) has used Microsoft® Excel® and Project to manage the product development process, however these technologies lack the essential capabilities necessary to achieve our business objectives," said Guo Jianxin, chief operating officer, Li Ning (China) Sports Goods Co. Ltd. "With the selection of PTC's FlexPLM, we are establishing a complete system for product development that has the unique features we need to be competitive."

"Li Ning (China)'s innovative approach to product design is reflected in its forward looking approach to technology adoption. We are very excited to be working with Li Ning (China) as the first Chinese based apparel and footwear company to adopt PTC enterprise PLM," said Kathleen Mitford, vice president, product and market strategy, PTC. "We are looking forward to working closely with Li Ning (China) supporting Li Ning's goal to 'promote Chinese athletics and let sports make a difference in our lives.'"

## About Li Ning (China) Sports Goods Co. Ltd

Li Ning (China) Sports Goods Co. Ltd. was founded in 1990, in Sanshui, Guangdong Province. As the biggest Chinese sports goods brand, Li Ning owns brand property of "Li-ning" and "Z-DO" as well as

# CIMdata PLM Industry Summary

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rights for product R&D, design, manufacturing (by OEM), marketing, retail and other operational activities etc. With 15 years of development, Li Ning has extended its product range from sportswear to multiple parallel series of sportswear, sports shoes, and sports equipment. The company now owns the largest sports goods distribution network in China, and its products have been distributed to 23 countries and regions all over the world. In 2007, its turnover reached RMB 4.2 billion. For more information about Li Ning (China) Sports Goods Co. Ltd, please visit <http://www.li-ning.com.cn>.

 [Click here to return to Contents](#)

## ***QuEST Global Selects MSC.Software Engineering Analysis Tools Solutions to Increase Innovation***

17 June 2009

[MSC. Software](#) announced that QuEST Global has selected MSC.Software engineering analysis solutions including MSC Patran and Patran Thermal software to drive innovation and accelerate new product development in its broad customer base that includes manufacturers in aerospace, consumer electronics, healthcare, industrial products, marine, nuclear engineering, oil & gas, power generation and transportation.

QuEST Global will help their customers bring engineering design and analysis to the forefront of their business process and thereby cut product development costs, shorten lead times, increase capacity and maximize engineering resources.

"QuEST Global offers its customers services across the complete product life cycle. The issue we repeatedly hear from our customers is that they are challenged to reduce the labor and time required to complete model construction," said Ajay Prabhu, Chief Operating Officer of QuEST Global. "By adopting MSC.Software's engineering analysis tools through a global partnership, we create value for our customers by providing simulation design and analysis support for their products and processes that help them decrease the time and costs associated with virtual product development."

### **About QuEST Global**

QuEST Global is a leading provider of diversified engineering services and manufacturing. The company helps customers in the aerospace, consumer electronics, healthcare, industrial products, marine, nuclear engineering, oil & gas, power generation and transportation verticals to cut product development costs, shorten lead times, extend capacity and maximize engineering resources availability by providing support across the complete product life cycle from design and modeling through analysis, prototyping, automation, data documentation, instrumentation and controls, embedded systems development, manufacturing support, vendor management, and in-house precision machining. Through our Global Product Development framework and our on-site/off-shore/on-shore models, we leverage our local presence and global reach to support globalization initiatives for our customers. QuEST Global employs over 1700 professionals and has delivery centers in India, USA, Italy, Japan, Germany, France and footprints in UK and Spain. More information is available at <http://www.quest-global.com>

 [Click here to return to Contents](#)

## ***Syncromatics Uses Autodesk Inventor to Provide Smart Transit Information for Riders***

26 June 2009

Bus riders know when the next bus will arrive and how many passengers are riding thanks to

# CIMdata PLM Industry Summary

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Syncromatics' solar-powered transit signs, developed using Autodesk Inventor software.

[Autodesk](#) has named Syncromatics as the Autodesk Inventor of the Month for June 2009 for the company's real-time tracking and intelligent transportation systems. Since running power lines to bus shelters isn't always an option for cities -- or is too cost prohibitive to undertake -- Syncromatics' solar-powered signs represent an efficient new way to bring smart transit information directly to the rider at the bus or shuttle stop.

The Inventor of the Month program recognizes the most innovative design and engineering advancements made by the extensive community using Autodesk Inventor software, which takes manufacturers beyond 3D to Digital Prototyping. With Inventor software, manufacturers can create a single digital model that gives them the ability to design, visualize and simulate products before they are built to reduce the need for physical prototypes.

Syncromatics must design its products to meet the needs of transit agencies across the country and operate in a wide variety of climates -- from extremely cold winters in Philadelphia to seasonal hurricanes in Key West, Fla. The company uses Inventor to understand how its products will operate in these real-world environments -- for example, how much load they will bear and how much variance in movement they can withstand -- before they are deployed in the field.

"Inventor allows us to go straight from digital prototyping to production, without the time and expense of having to create and refine physical prototypes," said Stephen Salazar, chief operating officer of Syncromatics. "We can model a full assembly, see how it's going to perform and catch any mistakes ahead of time before anything has been built. That saves us a lot of time and money and earns customer respect."

Digital Prototyping enables [Syncromatics](#) to move quickly and nimbly as an organization, with less development time and faster time to market. This has enabled the company to gather considerable momentum in picking up new clients across the country and expanding service with existing transit agencies and numerous university campuses from California to Florida.

"Syncromatics' focus on developing innovative, customized solutions for transit agencies nationwide is delivering improvements that benefit transit riders and operators alike," said Robert "Buzz" Kross, senior vice president, Manufacturing Industry Group at Autodesk. "Inventor software continues to make a difference in helping green technology companies like Syncromatics deliver their innovations faster with less reliance on costly physical prototypes."

## About the Autodesk Inventor of the Month Program

Each month, Autodesk selects an Inventor of the Month from the users of Autodesk Inventor software, which takes manufacturers beyond 3D to Digital Prototyping. For more information about Autodesk Inventor of the Month, contact us at [IOM@autodesk.com](mailto:IOM@autodesk.com).

An interview with Syncromatics is available on the Autodesk YouTube Channel at  
<http://www.youtube.com/watch?v=nATuTMSjxoo>

 [Click here to return to Contents](#)

***Two-Time America's Cup Winner Chooses ANSYS Engineering Simulation Solutions to Drive Title Defense***

22 June 2009

# CIMdata PLM Industry Summary

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ANSYS, Inc. announced an agreement to serve as an Official Supplier to Alinghi, the Swiss sailing team that is preparing its defense of the America's Cup race. Alinghi will leverage the integrated simulation solutions from ANSYS as a key strategy in winning the 33rd America's Cup.

Pursuing its vision of innovative yacht design, Alinghi is relying on both structural mechanics and fluid dynamics simulation technologies from ANSYS to perform system-level vessel design and analysis. Even small improvements may prove crucial: During the 32nd America's Cup, the yachts were separated in many races by less than 30 seconds.

"The team used structural simulation tools from ANSYS extensively in the development, design and optimization of every aspect of the winning yacht for the 2007 America's Cup campaign," said Kurt Jordan, the Alinghi engineer responsible for structural modeling. "The real starting gun for the Cup begins years before the actual races. During design, construction, and on-the-water optimization of the yacht and systems, the major factor leading to success is the efficient use of time. Every decision, such as the extent of prototyping and testing, has strategic implications on our most precious resource: time. The ability to use and trust our engineering simulation tools while moving from virtual design directly to systems on the water — with minimal or often no intermediate prototype or testing steps — gives us an essential advantage over the competition. For these reasons we have selected ANSYS as our exclusive supplier of engineering simulation solutions."

Alinghi's success partly depends upon arriving at a capable design that will outperform competitors under uncertain environmental conditions. Solving multiple classes of physics problems by using the integrated solutions from ANSYS will empower Alinghi to achieve this feat quickly and economically. "We have been given a few months to design what we believe will be the fastest sailboat of its kind in history. We are pushing the limits and going where very few have gone before as far as boat structures, hull shapes and sail design are concerned. Because of this push, and because we do not have the luxury of time and cannot afford to be wrong, we have no choice but to increase our reliance on our simulation tools. We are confident that a very fast boat will be the end result of this collaboration with ANSYS," said Jim Bungener, Alinghi flow simulation engineer.

Applying ANSYS® software to structural simulation, Alinghi's goal is to build the lightest, strongest boat possible. The team will use ANSYS fluid dynamics simulation primarily on the hulls, appendages, sails and masts. "With the sheer size and speed of the class of yacht we're designing, the loads have become enormous. We need to have confidence in our simulations, because if something breaks people may be hurt. We also need our shapes to be optimal for fluid drag and lift purposes, so while the structural engineers want everything to be shaped like an I-beam for optimal structural properties, the fluids people want everything to be streamlined and skinny. Somewhere in the middle is the optimum, and this is where the [ANSYS](#) software is so useful. Doing full simulation using the same family of codes within the ANSYS® Workbench™ environment really makes our life easier," Bungener added.

Recent advances in the common user environment of the ANSYS Workbench platform, combined with core engineering simulation solvers and advanced meshing tools, facilitate the seamless and intuitive two-way integration between the team's geometry modeling, drafting and design efforts. "The ANSYS Workbench environment has been designed with such multiphysics needs in mind. Alinghi now has the simulation tools it needs to optimize strength and aerodynamics in its push to defend the America's Cup. As Official Supplier, we stand behind them as they marry the athletic challenges of sailing with their ability to design and engineer a highly capable vessel," said Dipankar Choudhury, vice president of corporate product strategy and planning at ANSYS, Inc.

## About the America's Cup and Alinghi

# CIMdata PLM Industry Summary

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Alinghi was formed in 2000. In 2003, Alinghi won the America's Cup against Team New Zealand (5-0) and became the first team to win the America's Cup on its first attempt. Thanks to this victory, the Cup returned to Europe for the first time in 152 years. The Swiss team carries the colors of the yacht club Société Nautique de Genève. In 2007, Alinghi successfully defended the America's Cup in Valencia, Spain, and is now preparing for a defense in 2010.

 [Click here to return to Contents](#)

## ***Wittur Group Standardizes on SolidWorks Enterprise PDM to Create Global Collaboration Network of Designers***

23 June 2009

Dassault Systèmes SolidWorks Corp. (DS SolidWorks) announced that the Wittur Group, the world's leading elevator component supplier, has standardized on SolidWorks® Enterprise PDM and installed 550 licenses.

The Wittur Group will use SolidWorks Enterprise PDM for document and workflow management to unify and organize its global offices more transparently. Its goals are improved teamwork between designers, optimized development processes, and more secure and efficient data management through a consolidated database.

The Wittur Group's products include doors, safety components and gearless drives, cars, slings, counterweight frames, and hydraulic drives. The components are used in standardized as well as in highly frequented complexes for weights, in public transport or in maritime facilities such as ships or oil rigs. It has been designing with SolidWorks CAD software for several years. The company had used three different PDM/PLM systems to manage its rapidly growing design database, but standardized on SolidWorks Enterprise PDM because it needed an integrated data management system.

"Our strong and long-standing relationship with SolidWorks, the software's user-friendly interface, low operational costs, and potential to save time and money were the deciding factors," said Reinhard Böhm, Global Project Manager PDM at the Wittur Group. "By standardizing on SolidWorks, we can establish a continuously efficient product data management system, which serves the entire development process. This benefits not only our customers, who attain high-quality, reliable, and secure products with appealing design, but also all Wittur employees, who can access a consistent data pool."

Wittur built a global infrastructure based on SolidWorks Enterprise PDM with a central database and distributed file servers. With the company-wide VPN, the employees can access current product and process information anytime and from anywhere.

In addition to the document management process, Wittur also wants to improve the company's workflow management with SolidWorks Enterprise PDM in the future. The company plans to connect SolidWorks Enterprise PDM to the existing CAD, Office, and ERP solutions, and set up bill of materials management company wide. "The switch to SolidWorks Enterprise PDM should increase the productivity of our existing CAD tools as well as provide an integrated platform for an optimized product development," Böhm said. "By creating a standardized document archive and a close network of our international sites, we expect to significantly improve collaboration with customers and suppliers."

"We are pleased about Wittur's decision to revitalize its CAD and PDM landscape completely with [SolidWorks](#) solutions," said Jeroen Buring, PDM sales manager, Central Europe at DS SolidWorks.

"Together with our sales and implementation partners, we supply everything from one single source and

# CIMdata PLM Industry Summary

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support Wittur in the realization of its strategic plans to optimally prepare the company for a successful future.”

The project was carried out in cooperation with the authorized SolidWorks reseller planetsoftware and the certified SolidWorks partner CADMES B.V. planetsoftware provided the CAD and PDM software, CADMES was responsible for the implementation of the solution.

## About planetsoftware

Since 1996 planetsoftware has been a leading Austrian provider of SolidWorks solutions. planetsoftware has always concentrated on SolidWorks and offers its customers consulting, training, and implementation support. Located at four major sites in Austria planetsoftware assures close customer contact and area-wide support. <http://www.cad.at>

## About CADMES B.V.

CADMES is a certified SolidWorks service partner, headquartered in the Netherlands. Its multilingual team and long standing experience in migration projects make CADMES B.V. a competent partner in the implementation of PDM strategies. <http://www.cadmes.com>

 [Click here to return to Contents](#)

## Product News

### ***Agilent Technologies Accelerates STMicroelectronics' 32-Nanometer RF Readiness with Validation of GoldenGate***

25 June 2009

Agilent Technologies announced validation of its GoldenGate RFIC simulation, analysis and verification tool to accelerate RF readiness for STMicroelectronics' 32 nm RF CMOS technology. The qualification of GoldenGate for STMicroelectronics' 32 nm RF technology is the result of a long-term collaboration between the two companies that includes 65 nm and other market-critical processes.

“Our successful track record with GoldenGate allowed us to start optimizing 32 nm RF IP designs early in our technology development cycle with a comprehensive AMS/RF Physical Design Kit and CAD solution,” said Vincent Varo, CMOS and derivative process design kit manager, Technology R&D, STMicroelectronics. “These designs include best-in-class RF devices (RF MOS, MOM, inductors and varactors) offered with suitably qualified SPICE models, simulation environment, layout PCells and physical verification (DRC/LVS-PEX) tool-suite. With time-to-market such a critical component in recouping the investment in leading-edge technologies, having a head start on complex RF blocks is invaluable.”

“Having the right tools is often not enough to be competitive these days,” said Thierry Locquette, Global EDA account manager with Agilent’s EEs of EDA division. “You also need the confidence to deploy them during the early phases of the technology development cycle. This kind of confidence comes from having past successes and is a byproduct of making the investment to build relationships like the one we have established with STMicroelectronics.”

Agilent's GoldenGate software is an advanced simulation and analysis solution for integrated mixed-signal RFIC designs. Its simulation algorithms are optimized for the challenging demands of today's complex RFICs, and its capacity enables full characterization of complete transceivers, including

# CIMdata PLM Industry Summary

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parasitics, prior to tape-out. GoldenGate also includes a suite of automation tools developed with the RFIC designer in mind. This suite helps designers launch simulations, analyze circuit performances and diagnose problematic issues with mixed-signal RFICs earlier in the design cycle.

Information about all Agilent EDA software offerings is available at <http://www.agilent.com/find/eesof>.

 [Click here to return to Contents](#)

## **Autodesk Announces Availability of Autodesk Navisworks 2010 With New Features for Process and Power Customers**

23 June 2009

[Autodesk, Inc.](#) announced that it is shipping new releases of [Autodesk Navisworks 2010](#) software for managing, simulating, and reviewing design and engineering projects in 3D. Autodesk Navisworks 2010 provides new capabilities that manage multi-disciplinary plant design and engineering workflows and enhance coordination across distributed teams. New plant-relevant features include:

**Clash grouping and detection** - Autodesk Navisworks combines precise faultfinding with hard, soft, clearance, and time-based clash management. Engineers can more quickly review and cross-check geometry created by most 3D authoring software; maintain a complete record of all clashes found throughout a project; check time and space coordination; and resolve site and workflow issues at the planning stage.

**Multi-format support** - Compatible with most major 3D design and laser scan formats, Autodesk Navisworks can combine 3D data from multiple formats, regardless of file size, into a comprehensive, dynamic information model, which can be shared with all stakeholders. Autodesk is committed to providing multi-format support and will work to provide compatibility with new file formats as they emerge.

**Collaboration** - Autodesk Navisworks enables design teams across engineering disciplines to view, annotate, expand, revise, and analyze one comprehensive information model for informed, timely decision-making. All project review files saved in Navisworks format are compressed, more secure, and streamable, and can be easily viewed with the free\* Navisworks viewer.

**In addition to these engineering design capabilities, Autodesk Navisworks 2010 will be compatible with the forthcoming AutoCAD Plant 3D product.**

### **Customer References:**

#### **Unison Engineering & Consultants GmbH, Germany**

"Navisworks' point- and line-based clash detection allow us to coordinate laser-scanned as-built environments with virtual models," said Leandros Zeppos, managing director at Unison Engineering & Consultants, an independent engineering company, providing a wide spectrum of engineering services for the plant industry. "The easy visualization of 3D point-cloud models with the integration of 3D CAD models provides a powerful design review solution for any project. Engineering solutions can be easily analyzed against existing, accurate on-site data."

#### **Lenzing Technik GmbH, Austria**

"Navisworks has simplified our job immensely," said Gerd Bergner, an engineer at Lenzing Technik, a global industrial partner specializing in Engineering and Contracting, Mechanical Engineering and

# CIMdata PLM Industry Summary

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Industrial Services, and Automation and Mechatronics. "The planning and design processes needed for steel-erection and plant-engineering work can now be combined into a single model. As a result, the plant project can be reviewed, and those involved now have a much better feeling for the installation they are creating."

## **More Information:**

For more information and a free\* trial version of Autodesk Navisworks software, please visit [www.autodesk.com/navisworks-plant](http://www.autodesk.com/navisworks-plant).

 [Click here to return to Contents](#)

## ***Autodesk Increases Moldflow Performance Two Fold***

23 June 2009

[Autodesk, Inc.](#) introduced the latest release of its Moldflow software suite for plastics injection molding simulation and optimization.

Scheduled for next month, Autodesk Moldflow 2010, second release, part of the Autodesk solution for [Digital Prototyping](#), offers enhanced performance, accuracy and interoperability with mainstream computer-aided design (CAD) applications. The plastics injection molding software suite is among the first in the computer-aided engineering (CAE) market to take advantage of the processing power of high-performance graphics processing unit (GPU) technology to solve complex computations twice as fast. Customers will benefit from higher accuracy for their plastics simulations through sophisticated improvements to 3D mesh analysis quality for parts and assemblies. Finally, native support for [Autodesk Inventor](#) software and a variety of other CAD models improves Moldflow integration with the product design and development process.

"We're focused on helping manufacturers reduce errors and improve injection mold performance--resulting in higher product quality and faster time to market," said Samir Hanna, vice president of Digital Factory and Industrial Design for the Autodesk Manufacturing Industry Group. "With the second release of Moldflow 2010, we are providing our customers with higher accuracy than ever before. Customers can troubleshoot and optimize plastic parts from the start of the product design cycle all the way to the manufacturing process."

The unique properties of plastics allow manufacturers to make high-quality parts that are light and strong with a high degree of repeatability. Yet there are also many challenges associated with plastics that are crucial to a product's success, such as visual defects or warpage (that is, changes that cause the part to no longer fit during assembly), that can result from a design misstep or the manufacturing process. Designers and engineers can use Autodesk Moldflow software to balance structural integrity and aesthetics when addressing these challenges, particularly for consumer products, automotive interiors and high-end building products.

"Moldflow software has a history of increasing analysis speed with every major release," said Brian Cutler, process simulation engineer, Synventive Molding Solutions. "The new graphics processing unit and 3D Parallel Flow capabilities in Moldflow 2010 will allow us to take maximum advantage of our computing power."

With the 2010 release, Autodesk simplified the Moldflow product line to bring customers more value at a lower cost. [Autodesk Moldflow Insight](#) offers in-depth simulation of the industry's most advanced molding processes using the world's largest plastics material database. [Autodesk Moldflow Adviser](#)

# CIMdata PLM Industry Summary

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simplifies plastics injection molding simulation and guides designers through analysis and results interpretation, helping to avoid manufacturing delays and costly mold rework. The new Moldflow 2010 release continues to set the bar for the industry through:

**Speed**--A single 3D flow analysis taps into hardware advancements by using multiple central processing unit (CPU) cores. Multithreading technology accelerates Autodesk Moldflow software analysis times by a factor of two (depending on the model). To achieve even greater speed gains, Autodesk Moldflow software also is the first plastics simulation software to leverage cutting-edge GPU technology from NVIDIA Corporation for analysis calculations in combination with the multiple CPU cores.

**CAD integration**--Autodesk has enhanced multi-CAD application support in Insight, and CAD models that are created or modified in Inventor software can now be imported directly into both Adviser and Insight. Insight users can import a part or a complete assembly at once. Once the CAD model has been imported, the user has full control over the meshing process and can refine the surface mesh in a specific spot where more detail is required, while leaving another area coarser.

**Accuracy**--Improvements to meshing technology for 3D models enable more accurate predictions of plastics designs and processes. For example, the software provides better mesh quality in areas where the part makes a transition from a thick to thin area, in corners and at the edge of a part.

 [Click here to return to Contents](#)

## *Autodesk Leverages NVIDIA GPU Computing to Bolster Moldflow Software Performance*

23 June 2009

Autodesk, Inc. announced that it has significantly increased the performance of the latest release of [Autodesk Moldflow Insight](#) 2010, part of its software suite for plastics injection molding, by further leveraging GPU technology from [NVIDIA Corporation](#).

Part of the Autodesk solution for [Digital Prototyping](#), Autodesk Moldflow software simulates the injection molding process to predict the flow behavior of plastic, allowing customers to help simulate and optimize their plastic parts and associated molds and achieve higher-quality and more profitable manufacturing. Moldflow 2010 is the first plastic injection molding software in the computer aided engineering (CAE) market to leverage the NVIDIA CUDA parallel processing architecture of the NVIDIA Quadro FX 4800 and Quadro FX 5800 GPUs, which has resulted in a more than 2X performance increase.

"Autodesk is absolutely driven to improve the performance of our Moldflow product line, and unlocking the power of NVIDIA Quadro GPUs provided a great opportunity to do so when we developed Moldflow 2010," said Samir Hanna, vice president of Digital Factory and Industrial Design for the Autodesk Manufacturing Industry Group. "Only a few years ago, analyzing plastics injection molding in true 3D was a slow process, but now Autodesk Moldflow users can reap the benefits of these new speed gains and reduce analysis times by multiple factors."

The CUDA architecture enables the distribution of a computational workload across the GPU's many hundreds of processor cores, resulting in the capability to deliver an unprecedented level of graphics realism at ever increasing speeds. This increase is an important step in the Digital Prototyping process as it allows CAE analysts and engineers to create and analyze more design variations in less time, reducing the time to the final digital representation and improving plastic part designs.

"We are pleased to have worked so closely with Autodesk to deliver a truly unique solution for the

# CIMdata PLM Industry Summary

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design of plastic parts and molds," said Jeff Brown, general manager, Professional Solutions, NVIDIA. "By taking full advantage of CUDA and NVIDIA GPUs, plastics specialists and analysts are now able to benefit from added graphics capabilities and experience process simulations at higher rates than ever before."

Autodesk will be showcasing Autodesk Moldflow 2010 at the International Plastics Showcase taking place June 22-26, in Chicago.

For more information on NVIDIA Quadro, visit [www.nvidia.com/quadro](http://www.nvidia.com/quadro).

 [Click here to return to Contents](#)

## ***Autodesk Unveils Inventor Fusion Technology to Help Engineers Speed Time to Market***

24 June 2009

[Autodesk](#) is offering a free\* download of its Inventor Fusion Technology Preview on [Autodesk Labs](#) starting June 25.

Autodesk Inventor Fusion is new [Digital Prototyping](#) technology that unites the power and control of parametric, history-based modeling with the speed and ease of use of direct, history-free modeling, enabling users to choose the modeling approach that is right for the task at hand. The technology preview is the first step in delivering the full vision of Inventor Fusion to engineers everywhere.

"Our manufacturing customers have told us that direct modeling is opening up new opportunities to accelerate product development. However, they've also told us that they don't see the need for the power and control of history-based parametric modeling going away," said Robert "Buzz" Kross, senior vice president for the Manufacturing Industry Group at Autodesk. "We're developing Inventor Fusion technology as part of a larger effort to combine the best of both disciplines to further improve the product design process."

Inventor Fusion Technology Preview is ideal for companies that need to make rapid, history-free design changes to a model through direct manipulation but also have many years worth of feature- and history-based data and design intent that they need to access, use and maintain.

The June 2009 preview is the first step toward Autodesk's goal of providing seamless bidirectional parametric and direct workflows to users by allowing them to adopt the modeling approach that best fits their needs in a single application. The company is planning a second technology preview this fall that will enable users to perform direct modeling for fast changes and then see their changes updated in the model's parametric feature history, maintaining crucial design intent. For more information or to download the Autodesk Inventor Fusion Technology Preview, please visit [www.inventorfusion.com](http://www.inventorfusion.com).

\* Free products are subject to the terms and conditions of the end-user license agreement that accompanies download of the software.

 [Click here to return to Contents](#)

## ***Cadence and Xilinx Simplify SoC Development with Enterprise Verification Capabilities for FPGA Targeted Design Platforms***

24 June 2009

[Cadence Design Systems, Inc.](#) announced that it has teamed with Xilinx to enable delivery of encrypted

# CIMdata PLM Industry Summary

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simulation models of Xilinx intellectual property (IP) in the latest 11.2 release of the Xilinx ISE Design Suite. The result is an expanded library of design IP and complementary simulation models supported by the Cadence® Incisive® functional verification platform for the new Xilinx Base Targeted Design Platform. Used in conjunction with the Open Verification Methodology (OVM) to provide multi-language verification and reuse, this approach can help mutual customers reduce risk and boost schedule predictability and quality.

Xilinx Targeted Design Platforms enable embedded, digital signal processing (DSP) and hardware designers alike to develop FPGA-based systems on chip (SoCs) faster with access to a wide array of silicon devices supported by open standards, common design flows, reusable IP, development tools, and run-time platforms. Using the high-performance IEEE-standard encryption donated by Cadence, Xilinx is now able to deliver Xilinx SecureIP models to speed development of designs targeting its latest Virtex®-6 FPGAs and Spartan®-6 FPGAs.

“Our customers have been building larger and more complex FPGA-based SoCs, which require more advanced verification techniques,” said Tom Feist, senior marketing director for ISE Design Suite at Xilinx. “Working closely with Cadence, we are able to deploy our SecureIP models using the new IEEE encryption with users gaining 2X performance improvements in simulation. When used in conjunction with the OVM, this enables greater verification efficiency throughout the FPGA development ecosystem.”

“Advances in technology announced by Xilinx and Cadence can translate into real time-to-market and quality boosts for our mutual customers,” said Michal Siwinski, marketing group director of Enterprise Verification at Cadence. “Xilinx Targeted Design Platforms enable rapid creation of SoCs that scale to the sweet spot for both the OVM and the Cadence Incisive functional verification, helping customers to reduce overall project costs and risks.”

 [Click here to return to Contents](#)

## ***CD-adapco Announces the Latest Release of STAR-CD***

23 June 2009

STAR-CD V4.10 is packed with new features particularly aimed at the simulation of Internal Combustion Engines and multiphysics problems.

STAR-CD V4.10 enhances its reputation as the leading software for ICE specific features including:

- New and more advanced IC engine combustion models
- Improved spray and fuel injection capabilities
- More flexible variable RPM simulation options
- New and improved engine knock modeling capability
- Improved in-cylinder wall heat transfer modeling
- Coupling to the BOOST engine simulation tool

STAR-CD V4.10 also includes a significant range of enhancements to its already extensive multiphysics capabilities, including:

- Improved multiphase capabilities

# CIMdata PLM Industry Summary

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- Extended capabilities for finite volume stress
- Improved coupling with ABAQUS

To download STAR-CD V4.10 please visit their [User Services site](#) or contact your local support office. They also strongly recommend you to take the time to read the Release Notes that are provided with the installation package. The Release Notes will provide you with an exhaustive overview of the new features and improvements as well as all of the enhancement requests that have been implemented in this release.

 [Click here to return to Contents](#)

## **Dassault Systèmes Launches V6R2010**

23 June 2009

[Dassault Systèmes](#) (DS) launched V6R2010, the latest release of its new platform. Today's announcement introduces 42 new V6 products supporting business processes in all industries and a new offer, V6 PLM Express, tailored specifically for mid-market businesses and small teams within large organizations. V6R2010 also includes groundbreaking direct modeling capabilities and realistic simulation solutions for non-experts.

[For more information, please visit <http://www.3ds.com/v6>]

Odile Desforges, EVP engineering and quality, Renault, comments: "With the objective to transform our engineering processes worldwide, we needed to replace multiple existing solutions with a single, integrated and globally deployable one. We also wanted to concentrate on collaborative engineering for improved efficiency. After about one year of testing, we chose the full V6 portfolio because its integrated PLM environment perfectly responded to our requirements in terms of real-time collaboration and online-enabled design." Desforges adds: "We will deploy Dassault Systèmes' V6 solutions worldwide for the development of our future engines and cars from mid-2010. The scalability and openness of the V6 platform, its out-of-the box configurations and its easy-to-use intuitive V6 interface make it appealing. V6's inherent integration to the supply chain means our teams will be able to collaborate seamlessly with suppliers."

In recent months Dassault Systèmes' V6 collaborative platform has been widely adopted in multiple industries such as Apparel (Guess, UnderArmour, Trent Ltd.), Consumer Packaged Goods (Procter&Gamble), Life Sciences (Beckman Coulter), High Tech (Lexmark International, novero), Semiconductor (Dialog Semiconductor, INSIDE Contactless), Energy (Oceaneering, Stork GLT), Aerospace (Piaggio Aero Industries, Eaton Aerospace), Automotive (Eaton, Great Wall Motors, Johnson Controls), Business Services (TÜV Rheinland) and Construction (Skanska).

V6R2010 opens up key PLM 2.0 values to the mid-market, including real-time collaboration, online-enabled design-anywhere functionality, and a single, open scalable platform, in a pre-packaged, ready-to-use environment engineered for rapid deployment. Release 2010 and its mid-market solutions are the latest examples of how DS is continually advancing the simplicity and accessibility of PLM 2.0. PLM Express' role-based selections of the full V6 portfolio and its out-of-the-box configurations make the solution easy to buy and implement. Because all V6 solutions share the same interface and data model, mid-market users can inherently collaborate and integrate with OEMs. Support for multi-CAD interoperability and hybrid V4-V5 implementations, will be enhanced thanks to V6's open architecture.

"PLM 2.0 is an enterprise-wide business transformation catalyst integrating both industrial business

# CIMdata PLM Industry Summary

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processes and dedicated applications. V6's lifelike experience, IP collaboration, modeling, simulation and manufacturing solutions provide customers an agnostic and federating platform that truly accelerates PLM 2.0 transformations," says Dominique Florack, senior executive vice president, Products, Research and Development, Dassault Systèmes. "V6R2010 delivers the promise of our virtual universes through our unified open architecture and our deep understanding of collaborative and social innovation needs."

A key differentiator of V6 is to deliver the power of PLM to communities of expert and casual users. CATIA Live Shape introduces a direct 3D modeling paradigm. It allows casual users to quickly create design concepts in a lifelike environment and easily modify existing designs, including those from other CAD solutions. SIMULIA V6 DesignSight Structure makes advanced non linear finite element analysis technology available to non-experts.

## ***V6R2010: A new step towards industry performance***

**High-tech** - V6R2010 ready to use business process capabilities enable high-tech OEMs and EMS companies to drive an efficient sourcing strategy and ensure product and component compliance, while enabling "Design Anywhere, Manufacture Anywhere" agility and savings. This release also extends the DS solutions value for the semiconductor industry by connecting digital and embedded software designers working within the Eclipse IDE to their analog and custom design peers working within EDA environments. This single, collaborative design management system leads to improved quality and time to market for complex IC products.

**Shipbuilding and Energy** - V6R2010 3D equipment catalogs, tubing and piping are the first set of dedicated advanced authoring applications that benefit from the V6 collaborative platform. It also manages transverse processes, optimizing equipment installation simulation, maintenance and revamp operations and real-time project management, with solutions such as "3DVIA Composer Pro" and "ENOVIA Report Generator".

**Life Sciences** - V6R2010 enables the management of the increasing complexity of medical devices coupled with growing quality requirements. CATIA Systems links medical devices test scenarios, test results and product versions, all information being managed in the ENOVIA V6 collaboration platform. In addition, the new Life Sciences Accelerator for Product Introduction entitles product management from concept to recycling and ensures compliance with industry regulations at each stage of product development.

**Industrial Equipment** - Global industrial equipment companies of all sizes face increasing product variability and disruptions in the value chain while delivering ever faster innovative products. With V6 PLM Express, V6R2010 focuses on small and medium size companies with a sales configurator that entitles online component and sourcing management to lower the total cost of ownership.

**Consumer Packaged Goods** - V6R2010 introduces a new ENOVIA CPG Accelerator. The Integrated Product Management accelerator integrates components and formula raw materials for comprehensive product definition, enabling global change management and dynamic approval to accommodate regulated industry requirements. In addition, V6R2010 SIMULIA is bringing a major step for support of simulation lifecycle management (SLM) processes for the CPG industry.

**Consumer Goods** - V6R2010 connects apparel sourcing and production offices to brand and retail headquarters. The ENOVIA Apparel Accelerator for Sourcing and Production manages not only sampling, testing, RFQ (Request for Quote), and costing activities but also related pre-production activities: Apparel brands can now refine their global sourcing plan strategies to a combination of supplier/ factory/ country of origin (COO) level enabling analysis and implementation of sourcing

# CIMdata PLM Industry Summary

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distribution, budgeting and workload plans. Vendor capacity plans may be generated and validated with the supply base directly. Pre-purchase order related assortment details may be managed by sourcing allowing pre-production related activities to be accurately tracked and managed without the necessity of an FGPO (Finished Goods Purchase Order) to be generated.

**Automotive** - V6R2010 brings a major breakthrough in the area of Collaborative Engineering and Manufacturing for the Automotive Industry, OEM's and their suppliers. With a single PLM platform for IP management, V6 offers a seamless product to process integration without any engineering and manufacturing data duplication. This leads to dramatic reduction of end to end business processes such as Body-in-White. V6 ensures traceability along the product lifecycle from requirement to functional breakdown structure, logical architecture, physical engineering and manufacturing engineering. V6R2010 CATIA systems offers multi-discipline engineering in mechatronics and embedded software. DELMIA V6R2010 Robotics enables companies to develop multiple resource layouts for any given manufacturing process plan and provides key decision making tools to assess plant capacity, throughput, efficiency and associated costs. With online creation and collaboration, car makers can quickly exchange with partners and suppliers around the globe.

**Aerospace** - V6R2010 delivers risk management at the program level, provides real-time views on program status and manages IP protection. These are major assets to an industry, in which the globalization of the aerospace supply chain has created a need for greater visibility, collaboration and enhanced control on overall program activities and deliverables from concept to end of life. The difficult economic environment is driving companies to be more and more demanding. Customers are requiring aircrafts with greater performance at lower cost with on-time delivery while respecting the growing need to be environmentally friendly.

 [Click here to return to Contents](#)

## ***Exa Streamlines and Accelerates the Simulation Model Preparation Process with the Release of PowerDELTA***

25 June 2009

Exa® Corporation, a global innovator of fluids simulation (CAE/CFD) software for product engineering, announces the release of PowerDELTA™, the latest product in its suite of integrated tools that enhance the product development process. PowerDELTA dramatically streamlines and automates the simulation model creation process by enabling the numerous, often lengthy, meshing tasks to be performed in a single, easy-to-use, integrated application. Native CAD data of varying levels of complexity or completeness are rapidly and easily transformed using a sequence of parametric geometry and meshing features into high quality, simulation-ready meshes. With PowerDELTA, design changes are rapidly propagated through the simulation model to generate updated meshes—a huge, time saving, benefit.

“With the tough economic conditions leading organizations are seeking even more urgently to reduce cost and accelerate time-to-market by front-loading product performance analysis in the design process where critical and costly design decisions are made,” remarked Stephen Remondi, President and CEO at [Exa](#). “An accurate and efficient analysis process becomes essential because many design iterations will need to be analyzed.”

A key activity within the analysis process is preparing models for simulation, and in most organizations it’s a significant barrier to an efficient process. Typically, mesh preparation time is very long – taking

# CIMdata PLM Industry Summary

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days or even weeks – and is complicated by the need to handle conceptual geometry and poor quality carry-over CAD data. Further adding to process inefficiency is the fact that many companies build multiple redundant simulation models for different types of analysis. Worse still, it is typical for a simulation model to be one-time, one-use only; due the extreme difficulty traditional tools have updating simulation models when designs change.

“PowerDELTA is a key component of Exa’s strategy to support the complete digital product engineering and analysis process in real-world conditions,” comments Dr. Paul Stewart, Exa’s Director of Product Management. “PowerDELTA solves the problem by applying the proven concepts of parametric feature modeling and history tree model management to the process of simulation model creation and update.” Stewart continues, “PowerDELTA imports CAD data from all major systems, handles varying levels of quality, provides an environment for collaboration and team design, and enables change on any level.”

## About PowerDELTA

Exa’s latest product offers numerous benefits to enhance the simulation model creation process:

- ♦ **Reduces mesh preparation time.** PowerDELTA is a single, integrated, product that starts with input CAD and produces simulation-ready surface meshes eliminating the multiple mesh preparation tools and variety of data formats typically required. Because PowerFLOW’s unique approach to analysis does not need a separate mesh for the fluid, which is required with traditional fluids solvers, once the surface meshes are created with PowerDELTA, the model is ready for simulation.
- ♦ **Productive.** Designed for the professional user, PowerDELTA has easy-to-use graphical interfaces that guide the user through the feature creation process. Unique project, frame, and branch data organization capabilities enable large models to be quickly sorted and allow large mesh preparation tasks to be shared by multiple people. High speed, high quality, wrapping and decimation features allow high quality meshes to be created in significantly less time.
- ♦ **Enables rapid response to design changes.** Parametric feature history tree regeneration allows the user to simply change feature parameters and regenerate to propagate changes through the model.
- ♦ **Handles design data of varying quality and size.** PowerDELTA can directly import and heal most CAD formats, removing the reliance on, and wait for, the design department to export geometry in a neutral format. PowerDELTA directly reads and retains native CAD assembly structures eliminating the time-intensive task of recreating vehicle sub-system structures.
- ♦ **Eliminates redundant simulation model building.** Typical industry practice is to use different simulation tools for aerodynamic, aeroacoustic, and thermal analyses – each of which require a separate surface mesh and fluid mesh. Exa’s unique approach and focus on validation of results mean that a single tool can be used for all types of fluids-driven analysis. A single PowerDELTA mesh can be used with PowerFLOW for aerodynamic, aeroacoustic, and thermal analyses.
- ♦ **Enables reuse, captures best practice, & reduces errors.** Saved frames and branches with prebuilt feature sequences easily capture and allow reuse of best practices for different components of the model, e.g. engine vs. upper body. PowerDELTA’s ability to read native CAD assembly structures eliminates the typical errors of missing parts from the simulation or using an incorrect configuration, thus avoiding inaccurate results and wasted simulation runs.

 [Click here to return to Contents](#)

# CIMdata PLM Industry Summary

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## ***IronCAD, LLC Releases IRONCAD Version 11.0 Japanese Edition***

24 June 2009

IronCAD, LLC announced the release of IRONCAD Version 11.0 Japanese, the latest offering of its 3D design solution in Japan. By combining history-based parametrics and direct geometry manipulation into a single modeling environment along with the customer driven requests, IRONCAD Version 11.0 Japanese gives the regions designers and engineers greater design freedom and flexibility to get products to market faster with better quality.

IronCAD Version 11.0 Japanese and its accompanying bonus Gold Partner CD are available for immediate delivery.

“IRONCAD Version 11 Japanese is a significant step forward for the product, not only allowing users to operate on newer 64-bit and Vista platforms, but also delivering numerous features that have been requested by our user base and market to make our product more productive” commented Dr. Tao-Yang Han, president of IronCAD, “IRONCAD has been available in Japan since 1998 and has many dedicated customers. We have worked closely with these customers to find ways to simplify and streamline their design processes while strengthening our product to meet the needs of the Japanese market, and this release is a direct result of these efforts.” he continued.

Many customer driven feature enhancements have been implemented in this latest version including these key items:

- Assembly Performance Improvements with Load, Save, and Memory Usage
- Support for 32-Bit and 64-Bit on both Windows XP and Vista
- Many User Interface Improvements for Enhanced Productivity
- Zoom to Selection for Quick Viewing and Centering of Selected Objects
- Find in Scene Browser for Quick Locate of Selected Data
- Search Browser for Advance Find Capabilities Within Scene Files
- Many 2D Sketch Improvements in User Interface and Capabilities
- Import/Export Improvements for Accuracy and Memory Reduction
- True Thread Feature and Variable Pitch/Radius Helix Support
- 3D Positioning Improvements with the TriBall® Positioning Tool
- Smart Assembly Improvements with Stronger Connection Options
- Drawing Improvements Including Multiple Broken-Out Section Support
- Advanced Rendering Catalogs Added to Enhance Realistic Renderings
- Visibility Updates for Shadow/Reflection Planes and Real-time Shadows
- Updated Import/Export Formats Including CATIA V5/UG/PRO-E
- Updated Partner CD with Additional Third Party Add-on Applications
- New Partner Programs - Algor DesignCheck Professional, Print3D and Softeacher

“Our customers are very excited to receive the IRONCAD v11 Japanese version. IRONCAD has helped

# CIMdata PLM Industry Summary

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our customers achieve unparalleled levels of productivity and with the enhancements in V11 our customers will continue to see productivity gains,” says Yukio Kitada, Manager of NTT DATA ENGINEERING SYSTEMS CORPORATION’s Marketing Division.

“We are very excited to be part of the IRONCAD v11 Japanese launch,” said Takuya Haga of Creative Machine Ltd, IronCAD’s newest reseller in Japan. “We have been a long time user of IRONCAD and know it is the best design tool available today. With v11, our customers will benefit tremendously from the advances in assembly management, part design, and the new user interface improvements.”

For a full detailed list of new features, visit <http://www.ironcad.com/product/>. IRONCAD Version 11.0 is available for immediate download from IronCAD’s Japanese resellers web sites.

## About NTT DATA ENGINEERING SYSTEMS CORPORATION

NTT DATA ENGINEERING SYSTEMS (NDES), headquartered in Tokyo, Japan, was established in 1977 with system integration as its corporate mission. Through many successful experiences with various industries, NDES provides an extensive product portfolio of CAD/CAM/CAE and ERP/SCM. The Space-E family and Space-E CAA V5 based family, NDES' flagship solutions, offers a comprehensive suite of products to satisfy various needs in the manufacturing field. NDES is the leader in Japanese the CAM and MOLD software with leading market share. For additional information, please contact NDES at 81-3-5711-5331 or visit <http://www.nttd-es.co.jp>.

## About Creative Machine Ltd.

Creative Machine Ltd., headquartered in Miyazaki City develops industrial machines for the automotive and semiconductor market. It was established in 2003 with the purpose of supporting production technology for Japanese automakers and semiconductor manufacturing companies. IRONCAD was used from Creative Machine’s beginning and helped make Creative Machine a leader in the Japanese machine market by developing complex and efficient machines. Since 2008 Creative Machine has been an IronCAD reseller allowing them to further support customers in the region by providing IronCAD software and services. For more information on Creative Machine call 81-985-71-2078 or visit <http://www.crv-m.com/>.

 [Click here to return to Contents](#)

## *Lattice Technology Signs as an Adobe Solution Partner*

25 June 2009

Lattice Technology® announced that it is now an Adobe Solution Partner.

Lattice Technology is integrating its applications with Adobe® Acrobat® 9 Pro Extended software to allow 3D CAD data contained within PDF documents to be quickly and easily enhanced with additional data relevant to downstream processes. This data will, in due course, include inter-related parts lists and BOMs, annotations, process designs and instructions, assembly animations, motion simulations and more. That data can then be saved back into the PDF document for sharing and collaboration across the manufacturing enterprise by anyone with free Adobe Reader® software.

“Lattice Technology’s mission is to make 3D product data relevant and usable to the rest of the manufacturing enterprise,” stated Bill Barnes, GM, Lattice Technology. “We are increasingly seeing manufacturing companies use PDF to share 3D data. By integrating Lattice Technology’s proven Digital Manufacturing solutions with Acrobat 9 Pro Extended, more people in manufacturing can quickly and

# CIMdata PLM Industry Summary

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easily access the right data exactly when they need it. XVL with PDF means this 3D manufacturing data can be shared easily, safely and consistently in the ubiquitous PDF format.”

“Publishing accurate B-rep 3D data to PDF with Acrobat 9 Pro Extended has allowed manufacturers to collaborate easily with anyone, anywhere. Now, with Lattice’s ability to enrich the 3D data within a PDF for use beyond product design, our customers can deliver information that concisely meets the needs of downstream users,” said Greg Baker, senior manager, Manufacturing Strategic Alliances, Adobe Systems Incorporated. “Lattice and Adobe will help customers extend the value of their design data far beyond the CAD and PDM systems. We are excited to have Lattice Technology join the Adobe Solution Partner program.”

Integrated XVL products that support PDF will be announced, and will be available from Lattice Technology and its reseller channel.

Coincidentally, customers can learn more about using 3D to improve lean manufacturing through the new e-book, ‘*Improving Lean Manufacturing Through 3D Data*’ by Dr. Hiroshi Toriya, available as a free download. The book delivers a series of case studies, survey data and information that help manufacturers understand how to take 3D out of the design stage and make it relevant to a lean manufacturing strategy. This book is available at Lattice Technology’s web site at: [www.lattice3d.com](http://www.lattice3d.com)

 [Click here to return to Contents](#)

## ***LEDAS Ports its Driving Dimensions plugin for Google SketchUp to Mac and Reports 10,000 Downloads of Windows Version***

23 June 2009

LEDAS Ltd., an independent provider of variational design tools known as Driving Dimensions plugins for different CAD platforms, announced version 1.1 of its Driving Dimensions plugin for Google SketchUp, a free 3D modeling software. With this plugin SketchUp users can parametrically edit their models in a very simple and intuitive way.

Version 1.1 introduces the ability to apply driving dimensions between geometric objects included into one group. Enhancements of the graphical user interface include a new toolbar button that simplifies the access to online help and improved usability when selecting two dimension arguments with a mouse.

With release 1.1 [LEDAS](#) also made a significant step toward Mac community of SketchUp users: now Driving Dimensions for SketchUp runs not only on Windows 2000/XP/Vista, but also on Mac OS X platform. It became possible after porting LGS, a variational geometric solver developed by LEDAS, to Mac OS X.

“In our work we were seriously inspired by the constantly growing user base of our Driving Dimensions plugin for SketchUp,” said Dmitry Ushakov, Director of Product Management, LEDAS Ltd. “In less than eight months after we released a first public beta, about 10,000 SketchUp users from 125 countries downloaded it from our website. With its growing popularity Mac OS X platform attracts more and more attention of CAD developers. We are excited to offer advanced parametrization tools integrated with a popular free 3D modeling software for Mac users.”

A free version of Driving Dimensions 1.1 for SketchUp 6 and 7 running on Windows 2000/XP/Vista and Mac OS X can be downloaded at <http://DrivingDimensions.com/download>. The free version is not intended for commercial use and is limited in the maximum driving dimensions entities that can be added to one SketchUp model. The Pro version is available from share-it! online store for only \$45 per

single user license.

 [Click here to return to Contents](#)

## **Mentor Graphics Announces Logic and Physical Synthesis Support for Xilinx Virtex-6 and Spartan-6 FPGAs**

24 June 2009

[Mentor Graphics Corporation](#) announced that its suite of advanced synthesis products support Xilinx Virtex-6 and Spartan-6 Field Programmable Gate Arrays (FPGAs). Support for the new Virtex-6 and Spartan-6 FPGA families is available now in the Mentor Graphics® Precision® RTL and Precision RTL Plus products, providing state-of-the-art logic and physical synthesis to quickly implement complex designs that meet target specifications.

Mentor is the first EDA synthesis provider to offer physical synthesis support for Virtex-6 and Spartan-6 designs. Its push-button physical synthesis capability works in conjunction with the new Xilinx ISE Design Suite 11.2 to provide superior Quality-of-Results (QoR). Designers can also leverage Precision's industry-leading SystemVerilog and mixed language support to implement their designs for Virtex-6 and Spartan-6 FPGAs. During the implementation cycle, customers with large designs can reduce run time by utilizing Precision's unique automatic incremental synthesis and its integration with Xilinx SmartCompile technology.

Xilinx and Mentor Graphics engineering teams worked together to provide a superior implementation methodology. "We're committed to delivering complete, fully integrated design flows with development environments that reflect the way designers work," stated Tom Feist, senior marketing director for ISE Design Suite at Xilinx. "Our collaboration with Mentor Graphics is a key element of this strategy, and ensures a smooth transition for early adopters of our newest device families and targeted design platforms. As a result, our mutual customers can implement their Virtex-6 and Spartan-6 designs faster, while achieving excellent quality-of-results using the Precision-ISE tool flow."

Virtex-6 and Spartan-6 FPGAs offer over 200% more logic capacity and greater than 300% increase in register density as compared to previous generations. "The latest additions to the Xilinx device portfolio provide faster performance at lower cost and with reduction in power consumption," said Daniel Platzker, product line director, Mentor Graphics Design and Synthesis Division. "Thanks to the joint effort with Xilinx, Precision Synthesis was enhanced to take advantage of Xilinx's latest silicon architecture, accelerating the time to market of our mutual customers."

### **About Precision Synthesis**

The Precision Synthesis product line forms the centerpiece of Mentor Graphics FPGA flow. The Precision RTL Plus product offers breakthrough capabilities such as vendor independent physical synthesis which provides industry-leading quality of results, automatic incremental synthesis, to reduce the impact of late design cycle changes, and patent-pending functionality which enables the efficient utilization of architectural blocks. With advanced support for ASIC prototyping (support for DesignWare libraries, SDC constraints, gated-clock handling, etc.) plus advanced implementation and optimization techniques — such as automatic mapping and inferencing of dedicated DSP and RAM blocks — the Precision Synthesis product is suited to handle today's high-end FPGAs. In addition, the Precision Synthesis product features a design analysis capability, allowing designers to cross-probe between multiple views as well as to perform interactive static timing for rapid "what-if" analyses.

 [Click here to return to Contents](#)

## **New Times Require New IFS Solution for Contractors in the Oil & Gas Industry**

24 June 2009

IFS announced it has enhanced its offering for engineering, procure and construct (EPC) contractors by launching the EPC Toolkit, a standardized, agile tool that enables complete control of projects, regardless of their size. Most contractors are unable to achieve this with their current business software. The EPC Toolkit can easily be integrated with all types of enterprise applications.

The EPC Toolkit provides system support for all the operational processes in an EPC project, including project management, engineering, material management and job costing.

Most contractors today have either fragmented IT solutions, home-grown solutions or standard enterprise applications that lack support for operational EPC processes. At the same time, the industry is experiencing a significant change in the size of the projects they take on. Many enterprises have adapted their business applications to mega-projects, but are now faced with changing their procedures and methods to support smaller projects including asset modifications.

The oil and gas industry is also experiencing new opportunities in the form of international projects, and new operators must be agile enough to adopt new standards and methods in order to handle these global projects safely and efficiently. IFS, which has long provided IT support based on NORSO standards, will include ISO 15926 in its portfolio of standards supported by the EPC Toolkit.

To address environmental requirements, IFS has developed Eco-footprint Management, a completely integrated tool that identifies, analyzes, and documents an enterprise's environmental impact, the measures taken to reduce environmental impacts, and the results achieved.

"The market has given our agile engineering register a fantastic reception. In the same system, it is possible to set the status of a project across disciplines and see how changes in one discipline are registered in the others. Now that we have also included project management, document management, and support for fabrication, installation and go-live, we can offer a strong EPC Toolkit for large EPC contractors who want a new, modern enterprise solution without abandoning their legacy solutions for financials and human resource management. Parts of the solution can also be used by contractors who want to improve the way they manage major modification contracts," IFS Director of Oil & Gas Carl-Magnus Adamsson said.

"We have invested heavily in developing a solution that is unique in terms of industry-specific, agile support for EPC projects. There have been indications from oil & gas enterprises that want to include all or part of our solution in their existing enterprise applications suite, which shows that our competitors can't yet deliver this. It is easy to integrate the EPC Toolkit because IFS Applications is built on an open, service-oriented architecture," Adamsson said.

IFS strategically targets suppliers to the oil & gas industry and has delivered solutions to this market for many years. IFS offers a complete, integrated industry-specific solution that manages the entire project lifecycle from engineering, project management, procurement, material management and fabrication to installation and after sales. Customers include Grenland Group, Babcock Engineering services, Heerema Fabrication Group, Dresser-Rand, Yantai Raffles, STX Norway Offshore, SeaDrill, Seawell, NCA, Hertel, Bergen Group Rosenberg, Hamworthy Gas Systems, RR Offshore, Rotary Engineering, Harland & Wolff, ShawCor and Sheddent Uhde.

# CIMdata PLM Industry Summary

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More information on IFS is available at <http://www.IFSWORLD.com/us>.

 [Click here to return to Contents](#)

## ***Open Text Adds Comprehensive Social Media Capabilities to the Open Text ECM Suite, Delivers on Enterprise 2.0***

23 June 2009

Open Text™ announced another major part of its Enterprise 2.0 strategy with a new software offering, Open Text Social Media, the latest addition to the Open Text ECM Suite. The solution offers a natural and intuitive social media application that gives people new ways of working productively together through the Web and mobile devices, while also meeting security and compliance demands by being integrated with a company's wider ECM system.

Traditional tools such as email are ill-suited for the task of connecting people in social networks, leading many employees to embrace consumer-oriented social media technologies, with or without corporate approval. While these tools can boost productivity, their use leads to concerns around security, intellectual property protection, knowledge preservation and compliance. Open Text Social Media, for the first time, gives organizations a way to address these concerns by marrying social media technology to an enterprise-ready content management infrastructure. The new solution adds to Open Text's collaboration products offered in the Open Text ECM Suite, providing a combination of document centric collaboration solutions and a new solution that connects people to people to content in social networks designed for the enterprise.

Open Text Social Media also meets the demands of today's increasingly mobile knowledge workers who demand mobile solutions that enable them to access key corporate systems. For social media solutions to be truly successful they need to provide a rich mobile experience. Open Text Social Media provides this with native mobile applications for Apple iPhone and RIM BlackBerry devices initially, with additional device support planned.

"A virtual and mobile workforce and the explosion of user-generated content have created a demand for a new model for enterprise collaboration. Open Text Social Media builds on social media applications to deliver a secure online environment where employees, customers, and partners can meet, share, network, and experience the power of collective knowledge," said John Myers, General Manager, Social Media at Open Text. "This new component of the Open Text ECM Suite enables organizations to benefit from these new ways of working together within the overall context of the organization's records and content management strategy."

"Like most federal government departments, we are very email centric and keeping people up to speed involves sending project updates and supporting documents to already overloaded inboxes," said Art Monette of Canada's Federal Judicial Affairs, one of the organizations beta testing the solution. "Open Text Social Media offers us central project sites with user profiles, discussion feeds, documents and wikis - everything in one place to keep everyone up to date. This alone is a huge timesaver. The ability to set up user profiles with photos and background information makes a big difference in helping people from cross-functional teams in different locations to work better together."

### **Enterprise Readiness**

Organizations are facing ever-increasing regulatory and legal requirements that are driving demand for records management, archiving, and discovery solutions for electronic content such as email and

# CIMdata PLM Industry Summary

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documents. Open Text is a world leader in this area, and by integrating its new social media offering with the content services of the Open Text ECM Suite, organizations can now effectively manage communications such as discussions, blogs, and wikis with the same set of security, compliance, and archiving policies that they use to manage email and other content today. Advanced security mechanisms make it easy to manage who has access to information and even enable content to be safely shared beyond the firewall to include customers, partners and suppliers.

## Consistently Easy to Use

When it comes to rolling out social media applications internally, organizations have turned to one-off or point solutions. Over time, this leads to a costly and confusing proliferation of applications and user interfaces. [Open Text](#) Social Media, by contrast, gives customers a consistent and integrated user interface. This means, for example, that useful information such as online status, user pictures and profiles are always available regardless of context (in a wiki, in a discussion, documents area etc.) This consistency lowers deployment and maintenance costs, improves user adoption and reduces training requirements. Key features of Open Text Social Media include:

- **Personal Dashboard** - Gives users a quick overview of communities, "My People," My Watches" and other pending and status details.
- **Communities** - Provides a virtual space where a group of people can work together electronically by sharing ideas, opinions, and information through discussions, document sharing, and wikis.
- **Profiles** - Lets users create/edit their profiles, add a photo, update their status, and view other people's profiles. Mini-profiles are generated automatically, allowing zero-click contextual display of a user's name, photo, contact information and presence status.
- **Blogs and Microblogs** - Users can publish a personal blog with their profiles. Users can create, edit and delete their own blog postings, and view and comment on other people's blogs.
- **Wikis** - The Wiki tab within a community provides a simple WYSIWYG wiki system. Page linking is supported and an automatic navigation pane expands as new pages are created. Users can edit, comment, view past versions, email out, tag and watch wiki pages.
- **Social Search** - Fast search delivers relevant content, people, and

# CIMdata PLM Industry Summary

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communities in parallel and displays relevancy-ranked results, while fully respecting permissions. Real-time indexing ensures immediate search results and handles all community data as well as many common file types.

- **Mobility** - Users can access community information from smart handheld devices such as BlackBerry and iPhone.

## Availability and Further Information

Open Text Social Media will be generally available in July, 2009. To learn more, go to: <http://cli.gs/OTSocialMedia>.

## About The Enterprise 2.0 Conference

The Enterprise 2.0 Conference explores the integration of Web 2.0 technologies in the enterprise, from both strategic and tactical perspectives. For more information visit: [www.e2conf.com](http://www.e2conf.com). Open Text is a Gold sponsor of the conference and will be showcasing its solutions at Booth No.615.



*Click here to return to Contents*

## ***Oracle Unveils New Release of Oracle's Agile Product Lifecycle Management (PLM)***

22 June 2009

### News Facts

Oracle unveiled [Oracle's Agile Product Lifecycle Management \(PLM\) 9.3](#), a new enterprise PLM offering with advanced risk analysis, an enterprise PLM backbone that integrates other applications and hundreds of productivity-enhancing innovations.

This latest release equips customers to drive profitable innovations, mitigate risk, lower development and product costs and improve productivity across the entire product lifecycle.

Agile PLM 9.3 represents the latest milestone for Oracle's "[Applications Unlimited](#)" program.

### **Innovations and Enhancements Deliver Substantial Business Value**

Enhancements and innovations in Agile PLM 9.3 include:

**Product Risk Management** - Supplier performance changes, component shortages, price reductions and other global value chain uncertainties contribute to the high-risk environment companies face today. Agile PLM 9.3 extends the PLM analytics platform to provide:

**Supplier Risk Analysis** - Identifies high-risk suppliers based on quality, compliance and over exposure, enabling users to make better decisions about their supplier relationships across product portfolio.

**Part Risk Analysis** - Categorizes and identifies newly introduced parts, parts that lack product record information (price, compliance, specifications) or are at risk of obsolescence.

**Product Quality Risk Analysis** - Detects which products are most impacted by quality issues, prioritizes customer complaints by urgency and severity.

# CIMdata PLM Industry Summary

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**Product Design Volatility Analysis** - Identifies which products or product lines have the most late-stage changes during the new product release cycle, and outlines the severity of those changes and operational impact.

These analytics enhancements are also available to customers running Agile PLM 9.2.2 and higher.

**Enterprise PLM Backbone** - Many existing design and document management applications fail to deliver strategic business value because of difficulties in integrating them with other business applications. In contrast, Agile PLM 9.3 provides a complete Service Oriented Architecture (SOA) that allows companies to integrate its various components to existing engineering and enterprise systems. This enables companies to deploy these PLM services and achieve their business objectives while managing costs. Some of the key features introduced in this release are:

**SOA Enterprise PLM Platform** - Modularized web services, event management and extensible scripting for all PLM components including CAD objects to easily deploy, integrate, mash-up and extend product lifecycle processes.

**Integrated Product Master Data Management** - Manage data mappings, improve data quality and data governance across the heterogeneous systems integrated to the Enterprise PLM Backbone.

**Oracle® Application Integration Architecture (AIA)** - Continued development of out-of-the-box open standards-based integrations to broader enterprise systems including Oracle and SAP.

**User Productivity Tools** - Agile PLM 9.3 enhances user productivity by leveraging a Web 2.0 User Interface. Lab tests of Agile PLM 9.3 using real product data from a large global customer showed a 70 percent reduction in clicks and improvements to user productivity. New productivity improvements include:

**New User Interface Controls** - In-line table editing, context aware pop-ups, new drag and drop capabilities, type ahead fields and more streamlined controls.

**Enhanced User Personalization** - Column-locking, ordering and hiding, multi-column sorting and filtering, and personal views.

**Simplified Access** - expose Agile documents directly to the desktop file browser or point Agile PLM to existing document vaults.

**User Training Management** - Personalized context help through Oracle User Productivity Kit (UPK) and video quick tours to reduce deployment time and training significantly.

## Continued Process Enhancements

Agile PLM 9.3 also contains hundreds of additional enhancements to processes across all modules including - Product Collaboration, Engineering Collaboration, Product Cost Management, Product Governance and Compliance, Product Quality and Project Portfolio Management.

## Supporting Quotes

"Quantum has been a long time user of Oracle's Agile Product Lifecycle Management, relying on it to help drive product data consistency, support new product development and time-to-market and create global alignment around our product objectives. This has been particularly important as we've built out our portfolio of disk-based, deduplication and replication solutions and reinforced our leadership in backup, recovery and archive," Daniel Hartley, PLM Applications Manager, Quantum Corporation. "With Agile PLM 9.3, we can see improved usability and productivity in our product development

# CIMdata PLM Industry Summary

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processes and will be able to leverage our current applications infrastructure with the Enterprise PLM Backbone in 9.3."

"Today, PLM has become a highly strategic tool that can impact profitability, mitigate risks and improve enterprise productivity," said Oracle Vice President, PLM Product Strategy Hardeep Gulati. "With this latest release, Oracle extends its lead in delivering Enterprise-class PLM by giving organizations more out-of-the-box processes to support their corporate initiatives within the framework of a scalable, enterprise PLM backbone."

## **General Availability**

Oracle's Agile Product Lifecycle Management 9.3 is currently available.

### **Supporting Resources**

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

<http://www.oracle.com/us/corporate/press/018185>

[Oracle's Agile PLM Blog](#)

[Oracle's Agile PLM Twitter Feed](#)

 [Click here to return to Contents](#)

## ***Siemens PLM Software Launches New Offerings Focused on Productivity for Global Manufacturing Industry***

23 June 2009

[Siemens PLM Software](#) announced a set of new and enhanced software tools aimed at boosting productivity for the global manufacturing industry. The company simultaneously launched the latest versions of both [Teamcenter](#)® and [Tecnomatix](#)® software.

"In today's difficult global economic climate it is more important than ever for product producing companies to elevate and optimize their overall productivity," said Chuck Grindstaff, executive vice president of Products and Chief Technology Officer, Siemens PLM Software. "Our customers are evaluating every aspect of their business to look for new ways to improve productivity, from the shop floor to the executive suite. To respond to their needs, we have put an even sharper focus on developing creative tools and features in the new versions of Teamcenter and Tecnomatix that will help them unleash new levels of efficiency in product development and production. We believe these are the type of solutions companies need to help reduce costs, increase revenue and foster innovation."

### **Teamcenter 8 – product lifecycle productivity**

With today's launch of Teamcenter 8 (see separate press release) Siemens PLM Software is delivering a variety of new features and modules aimed at driving productivity throughout the product lifecycle. Teamcenter serves as the single source of product and process knowledge for companies all over the world and in virtually every manufacturing industry. The new functionality in Teamcenter 8 focuses on boosting productivity for these organizations in three specific areas.

Teamcenter 8 delivers *individual productivity* by providing each user with an intuitive way to easily access product information and collaborate from anywhere in the world, inside the tools and processes they use every day without additional software or training.

# CIMdata PLM Industry Summary

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Teamcenter 8 delivers *application productivity* with its constantly expanding suite of end-to-end PLM applications targeting every aspect of the product lifecycle, including new applications for Content and Document Management with advanced Microsoft Office™ 2007 integration, along with Formula, Package and Brand Management. Teamcenter 8 also includes new industry solutions for Aerospace & Defense, CPG, and Medical Devices along with [hundreds of updates](#) across other solution areas. All designed to enable more people to do more with the data already managed in Teamcenter.

Teamcenter 8 delivers *IT productivity* with its unmatched scalability, open service-oriented architecture (SOA) and newly announced support for IBM's DB2® Information Manager and several other IBM middleware products. Teamcenter provides a deployment strategy for every size organization, from small start ups to global enterprises, delivering a lower cost of PLM ownership.

"ATK is focused on the success of our customers, so we like the fact that Siemens PLM people are focused on our success," said David Riemer, vice president, Science and Engineering, ATK Space Systems Group. "Teamcenter enables us to sustain a high degree of productivity in a variety of areas including product and project management, multi-site collaboration and systems engineering, while maintaining a single source of all of our product and process information. Teamcenter provides the breadth of functionality we need throughout our product development process, all in one integrated product family."

## Tecnomatix 9 – product production productivity

The Tecnomatix suite of digital manufacturing software solutions is designed to help factories produce some of the world's most sophisticated products with the least amount of resource, time and effort while maintaining the highest level of product quality. Today's launch of [Tecnomatix 9](#) (see separate press release) further extends that philosophy of doing more with less through an even tighter integration with Teamcenter and new functionality aimed at driving higher levels of planning and manufacturing productivity.

Tecnomatix 9 helps improve *planning productivity* with integrated planning solutions that supply instant access to the latest product data while supporting capture, standardization and re-use of qualified manufacturing best practices. Tecnomatix offers tools to validate planning results and automate time-consuming planning tasks more efficiently. As a result, Tecnomatix can significantly improve manufacturing planning processes while enabling users to maintain the highest level of planning quality despite shorter development cycles.

Tecnomatix 9 drives *manufacturing productivity* in a variety of areas, including the optimization and commissioning of robots and automation equipment, manual workplace configuration to achieve output and safety objectives, efficient placement of factory equipment and material flow optimization.

"We are constantly trying to squeeze greater levels efficiency from our manufacturing planning process and Tecnomatix has played a key role in that effort," said Alexander Schmeh, managing director EBZ SysTec GmbH. "Several of the new features being delivered in Tecnomatix 9 will go a long way to helping us meet our planning productivity improvement objectives."



[Click here to return to Contents](#)

## ***Siemens PLM Software Launches Teamcenter 8; Driving Productivity Throughout the Product Lifecycle***

23 June 2009

[Siemens PLM Software](#) announced the latest release of [Teamcenter](#)® software.. The Teamcenter 8 release

# CIMdata PLM Industry Summary

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focuses on individual, application and IT productivity, with a wide variety of enhancements as well as new support for IBM software including DB2® Information Manager, WebSphere® Application Server (WAS), Tivoli® Access Manger, Tivoli Storage Manager, and Rational® ClearCase®. With Teamcenter as a single source of product and process knowledge, individuals and teams can be more productive around-the-clock and from anywhere in the world.

“We recognize that in today’s difficult business environment, our customers’ focus on productivity is stronger than ever,” said Steve Bashada, vice president of Teamcenter Applications, Siemens PLM Software. “As a result, the enhancements in Teamcenter 8 are focused on three areas – individual productivity, application productivity and IT productivity – that we believe will best help our customers meet their business objectives. And with last week’s announcement with IBM and support for their technology, along with the enhanced integration of Teamcenter 8 with Microsoft Office, we are ensuring that productivity is available in whatever environment our customers choose to implement.”

## **Individual Productivity**

Teamcenter has always been designed to enable individuals to do more work in less time. Teamcenter 8 further extends individual productivity by enabling users to interact with Teamcenter from inside the tools and processes they use every day.

Teamcenter now includes an extensive Microsoft® Outlook® user interface as well as unmatched integration with Microsoft Office™ 2007. Teamcenter 8 adds a “ribbon” to the Microsoft Office toolbar, making it easier to interact with product information directly from within Word, Excel®, Outlook and PowerPoint®. Teamcenter 8 embeds a “Teamcenter To Do List” inside of Outlook, enabling users to manage their scheduling, workflow and engineering change assignments that are based on Teamcenter through the same office application they use every day. And by using Microsoft Outlook, Word and Excel as “live” user interfaces for Teamcenter to author and edit information, it’s now easier to extend PLM access to a broad base of both technical and business users.

Whether a company produces products that include mechanical, electrical, embedded software, or a combination of all three, Teamcenter can help reduce product development cycle time by enhancing collaboration and making product design data more easily accessible, secure and reusable. The Teamcenter 8 integration with logic capture and physical layout tools from Mentor Graphics, Cadence, Intercept, and Altium is supported by embedding Teamcenter menus in these electronic computer-aided design (ECAD) solutions. From within the ECAD application, users can save native design files and perform check-in and check-out operations. They also can access approved components, populate electrical component bills-of-materials (BOMs), share fabrication and assembly data and create and manage other types of derived ECAD data files.

When implementation of embedded menus is not possible or practical, such as in the case of customer developed or other third-party tools, Teamcenter provides a new gateway integration for Electronic Design Automation (EDA) tools. The gateway application uses a menu driven user interface and customizable configuration files to generate the same level of file access and data management functions supported with the Teamcenter embedded ECAD integrations.

Teamcenter integrates with a variety of software development tools, including a new “Ready for IBM Rational” validated ClearCase integration to tightly couple Application Lifecycle Management (ALM) with Product Lifecycle Management (PLM).

Other Teamcenter 8 enhancements affecting individual productivity include workflow improvements for dynamic participants, feedback loops, and asynchronous operations along with change management and

issues management.

## Application Productivity

With its unified architecture and robust set of applications, Teamcenter allows companies to implement end-to-end PLM by delivering a broad and deep portfolio of integrated modules to improve efficiency at each stage of a product's lifecycle. This application productivity continues in Teamcenter 8 with the introduction of two new application solutions, new industry solutions, as well as hundreds of enhancements across the entire portfolio. Teamcenter 8 now includes solutions for Content and Document Management as well as Formula, Package and Brand Management.

The new Content and Document Management solution with its advanced Microsoft Office 2007 integration, offers enhanced document management support for templates, embedded PLM menus and automatic rendering to standardize document processes, improve user productivity and reduce training costs. The structured authoring and publishing SGML/XML environment includes support for the independent S1000D technical publication standard to synchronize documentation and development and enable re-use, re-purposing and translation with multi-version publishing.

The introduction of Formula, Package and Brand Management in Teamcenter 8 is designed to provide several business benefits to process manufacturing organizations and companies in the consumer packaged goods industry. The new solution helps organizations eliminate inconsistent branding, improve brand communication and enable brand growth through brand knowledge management capabilities. The formula management capabilities include formula and recipe decomposition, as well as integration with formula authoring tools to consolidate information silos into a single source of information. Packaging and artwork management provides traceability through requirements and visibility to all related information to reduce errors and recalls. And finally, global specification management reduces inconsistency and re-work, enabling synchronized execution and visibility to the impact of change.

In addition to these two new solutions, Teamcenter 8 also includes enhancements to lightweight supplier collaboration, advanced requirements and project management and new industry solutions for Aerospace & Defense, CPG, and Medical Devices along with hundreds of updates across other solution areas.

## IT Productivity

Teamcenter improves IT productivity by providing a greater return on a company's IT investment. The Platform Extensibility Services in Teamcenter enable organizations to realize value from their Teamcenter investment quickly and cost effectively. These include *configuration* services so that Teamcenter can be easily tailored to an individual business without developing costly custom software; *connection* services so that Teamcenter can be seamlessly integrated with other enterprise applications (including ERP and other Teamcenter installations) to enable enterprise-wide business processes; and *customization* services so that Teamcenter can be extended with maintainable and upgradeable custom software to meet specialized business needs.

With its flexible four-tier, service-oriented architecture (SOA), Teamcenter can be deployed as effectively in small businesses as it can in the largest global enterprises. To facilitate this flexibility, Teamcenter supports a wide variety of IT environments, including for the first time with this latest release, IBM middleware software. As a part of a set of offerings announced by IBM and Siemens PLM Software on June 18, Teamcenter 8 is now available on the IBM technology stack and becomes the world's first PLM solution that will ship to customers pre-configured with IBM DB2 Information Manager and WebSphere Application Server. For companies that prefer the IBM platform, Teamcenter now provides an easy to implement

# CIMdata PLM Industry Summary

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solution designed to reduce PLM deployment costs and boost IT productivity for any size business. In addition to DB2 and WAS, Teamcenter supports IBM's Tivoli Storage Manager, Tivoli Access Manager, and Rational ClearCase.

"By adding support for DB2 and WebSphere, Siemens PLM Software is continuing to expand the potential customer base for its widely adopted PLM software," said Ken Amann, Director of Research for CIMdata. "The combination of IBM's PLM consulting and services expertise with Siemens' PLM solutions and market presence should create strong business value for their clients."

Teamcenter 8 also addresses IT productivity with improvements to the file management system (FMS) upload performance and more robust transaction performance for multi-site installations. These enhancements provide advanced, secure file caching to reduce file transfer time and to keep important product data synchronized throughout multiple locations.

Teamcenter 8 is available immediately. For more information, please visit [www.siemens.com/teamcenter](http://www.siemens.com/teamcenter).

 [Click here to return to Contents](#)

## ***Siemens PLM Software Launches Tecnomatix 9 to Increase Planning and Manufacturing Productivity***

23 June 2009

[Siemens PLM Software](#) announced the latest release of [Tecnomatix®](#) software. Numerous enhancements throughout Tecnomatix 9 – along with several new features in areas such as process planning, robotics simulation and commissioning – create a solution aimed at helping companies optimize their planning and manufacturing productivity.

"In order to respond to a changing market and prepare for opportunity during economic downturns, companies need to rapidly develop new products while maintaining high quality," said Ziyon Amram, vice president, Digital Manufacturing Solutions, Siemens PLM Software. "The many enhancements and new functionality of Tecnomatix 9 are designed to help organizations increase both planning and manufacturing productivity resulting in production optimization, cost reduction and the ability to efficiently reconfigure manufacturing systems to meet changing market demands."

### **Planning Productivity**

The Tecnomatix suite, together with the new capabilities in today's release, enables collaborative engineering and improves the productivity of manufacturing planners, supporting companies in their effort to bring products to market faster.

Tecnomatix also leverages [Teamcenter®](#) software, Siemens PLM Software's digital lifecycle management portfolio, as an integrated platform for manufacturing planning, from process authoring through simulation to documentation. Enhancements in Tecnomatix 9 support concepts such as re-use of best practices and standardization, as well as tools helping to manage complexity, such as change management. These tools help increase planning productivity and enable planners to do more with less.

One of the principal ways Tecnomatix 9 helps companies drive productivity is through several new features aimed at automating various planning tasks. For example, one new function allows for the rapid creation and exploration of alternate product assembly/disassembly sequencing in order to optimize this planning task and save time in creating assembly documentation. Another automated planning task enhancement uses a higher level task description to manipulate the [Jack®](#) human model component of

# CIMdata PLM Industry Summary

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Tecnomatix in 3D virtual environments. This capability can significantly reduce the time required for a simulation study, allowing for the evaluation of various what-if scenarios involving the simulation of humans in a manufacturing or maintenance environment.

Tecnomatix 9 includes several additional enhancements targeted at increasing planning productivity, usability improvements and a new manufacturing tooling library. In addition, Tecnomatix offers tighter integration to Teamcenter, enabling seamless manufacturing data collaboration between Tecnomatix applications and the Teamcenter PLM backbone.

Tecnomatix 9 brings planning and production more closely together, and helps bridge the gap between virtual and real. With Tecnomatix 9, a new solution for Dimensional Planning & Validation (DPV) is being introduced. DPV enables capturing large amounts of as-built data from measurement devices on the shop-floor and managing them in Teamcenter. Product designers as well as manufacturing engineers can leverage powerful search and analysis functions to analyze and compare quality data from various plants and thus optimize product and process.

“With the Tecnomatix solution, we have succeeded in introducing a fully integrated planning system into our company,” said Roland Weisser, plant manager, ebm-papst St. Georgen GmbH & Co. KG. “From design and planning to the after-sales stage, we are able to map the entire production lifecycle. The planning data can be re-used at any time and the production planners can access existing documentation for the same process and the same machine or system.”

## Manufacturing Productivity

In addition to addressing the planning process, Tecnomatix 9 also contains multiple new features and enhancements focused on manufacturing productivity. These features and enhancements further strengthen the power of Tecnomatix to help companies virtually optimize their manufacturing processes with software tools designed to maximize the productivity of existing lines and facilitate the commissioning of new ones.

In the area of robotics simulation, Tecnomatix 9 offers a number of new capabilities including a new automatic path planning function that significantly reduces the effort for the offline programming of robots. In addition, the Tecnomatix virtual commissioning capability allows for testing real PLC controller programs against virtual manufacturing lines and can lead to a dramatic reduction in commissioning time on the shop floor. Furthermore, standard libraries of intelligent components significantly reduce the time and effort spent on virtual commissioning projects by eliminating the time necessary to manually create logic definitions from scratch.

Tecnomatix 9 enables companies to boost manufacturing productivity in several other areas of the manufacturing environment such as factory layout and space consumption, manual workflow processes and material flow.

More realistic digital human models enhance ergonomic studies and aid with the early detection and correction of potential issues.

An enhanced time analysis and management capability includes the ability to analyze value added tasks versus non value added tasks.

Tighter integration between Teamcenter and the [FactoryCAD®](#) solution in Tecnomatix improves factory design data management and collaboration.

Multiple improvements to the [Tecnomatix Plant Simulation](#) application enhance the users' ability to

# CIMdata PLM Industry Summary

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reduce inventory, detect potential bottlenecks, optimize material flow, and quickly model even the most complex environments.

"The simulation and virtual commissioning applications in Tecnomatix enable us to identify potential issues in a digital environment before they become expensive problems on the factory floor," said Jordan Merhib, director of Business Development, Applied Manufacturing Technologies, Inc.

"Tecnomatix enables us to help our customers avoid multiple problems that would lead to missed delivery schedules and lost revenue. We are confident that we will be able to take advantage of several of the new capabilities in Tecnomatix 9 to further improve our customer's overall production productivity."

Tecnomatix 9 is available immediately. For more information, please visit

[www.siemens.com/tecnomatix](http://www.siemens.com/tecnomatix).

 [Click here to return to Contents](#)

## ***SMIC and Synopsys Announce the Availability of Reference Flow 4.0***

23 June 2009

[Synopsys, Inc.](#) and Semiconductor Manufacturing International Corporation ("SMIC") announced the availability of the 65-nanometer (nm) RTL-to-GDSII reference design flow, version 4.0. The reference flow, the result of collaboration between Synopsys Professional Services and SMIC, adds the Synopsys Eclypse™ Low Power Solution and IC Compiler Zroute technology, expanding the resources available to designers to address low power and design-for-manufacturing challenges at smaller process nodes. The result for customers is immediate access to an optimized path to SMIC silicon at 65-nm to help them meet aggressive project timelines.

The flow utilizes Synopsys' Galaxy™ Implementation Platform, a key part of the Eclypse Low Power Solution, providing designers with the ability to implement advanced low power techniques throughout the design flow including RTL synthesis and test, physical implementation and signoff stages. In addition, IC Compiler's Zroute technology supports SMIC's 65-nm routing rules using advanced routing algorithms to evaluate the impact of manufacturing rules, timing and other design goals. The integration of Zroute balances design-for-manufacturing (DFM) optimization techniques with design timing, area, power and signal integrity goals for a particular chip design.

The reference design flow was validated using SMIC's in-house-developed CCS standard cell library, SRAM, PLL, IO Library and low power cell library. The validation included multiple Vdd and multiple supply blocks with power-gating and data retention. Additional key features of the flow include multi-corner multi-mode (MCMM) optimization and critical area analysis and reduction, using IC Compiler, and design-for-test (DFT) synthesis combined with on-chip clocking control support for automatic generation of at-speed tests.

"SMIC's 65-nanometer logic process requires a flow that addresses critical timing, power leakage and DFM issues to reduce risk and increase the quality of results," said Paul Ouyang, vice president of Design Services Center at SMIC. "We worked closely with Synopsys to once again deliver a solution that enables our mutual customers to take advantage of both companies' leading technologies. We look forward to an ongoing relationship with Synopsys as we move toward even more advanced process nodes."

"Synopsys works closely with our semiconductor foundry partners to enable our mutual customers to

# CIMdata PLM Industry Summary

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accelerate their designs into manufacturing," said Rich Goldman, vice president of Corporate Marketing and Strategic Alliances at Synopsys. "Our collaboration with SMIC gives IC engineering teams a proven reference flow to advance their SoC designs targeting SMIC's 65-nanometer process technology, leveraging Synopsys' low power and DFM technologies."

## Availability

The SMIC-Synopsys Reference Flow 4.0 is available now. For more information, please contact your SMIC account manager or send email to [Design\\_Services@smics.com](mailto:Design_Services@smics.com).

 [Click here to return to Contents](#)

## **Synopsys and TSMC Deliver Accurate Lithography Verification for 28nm Designs**

23 June 2009

[Synopsys, Inc.](#) announced the results of a collaboration with TSMC under TSMC's Unified Design-for-Manufacturing (UDFM) architecture effort. This collaboration enables designers to improve yields and accelerate time to market through more accurate lithography simulation at 28 nanometer (nm) and below. Through this joint effort, designers will now have access to the same technology that is in production at TSMC. The solution offers a 28-nm lithography process checking (LPC) engine, which includes Synopsys Proteus mask synthesis technology and TSMC process models. Using an interoperable applications programming interface (API), EDA design tools can now interface with the LPC engine to accurately predict lithography hotspots in a given design before handing-off the designs to manufacturing.

"TSMC is laying the groundwork for 28-nm process technologies and below with the industry's first Unified DFM (UDFM) framework and LPC engine, which is destined to become an important consideration," said ST Juang, senior director of Design Infrastructure Marketing at TSMC. "At those nodes, it will be exceedingly difficult for design tools to accurately assess lithography issues without access to an exact copy of our tool chain and process models. TSMC UDFM's 'copy exact' approach will not only provide actual lithography hotspot data to designers, but will also open the door for all EDA vendors by enabling encapsulated access to a large part of our manufacturing data."

Currently, the only way for design tools to access proprietary foundry data is through abstracted models, which by necessity lose information in the translation process. This can lead to overly aggressive checking during design, wasting chip area and design time to correct false errors. In comparison, using the new approach based on the encapsulated LPC engine, TSMC can provide EDA DFM tools access to the TSMC Unified DFM Design Kit (DDK) that includes an exact copy of the tool chain and process models used in the factory. In the case of Synopsys, this allows PrimeYield LCC and ICC to create a comprehensive DFM solution. PrimeYield LCC can be invoked within Synopsys' IC Compiler place-and-route system to identify lithography hot spots with factory accuracy and offer fix guidance for IC Compiler to auto-fix the hotspot.

"With UDFM and a LPC engine, Synopsys and TSMC enable designers to perform more accurate lithography analysis. With copy-exact accuracy, designers can be confident that they are neither sacrificing chip area, nor wasting time in fixing false hotspots," said Saleem Haider, senior director of marketing for physical design and DFM at Synopsys. "Together with TSMC, we are confident that the EDA community will benefit from this open approach, and we look forward to their participation in this Unified DFM framework."

 [Click here to return to Contents](#)

## **UMC Qualifies Comprehensive Mentor Graphics Silicon Test Suite for 65nm and 40nm IC Reference Flow**

23 June 2009

[Mentor Graphics Corporation](#) announced that its silicon test and diagnosis suite has been validated by UMC for use in its 65 and 40 nanometer reference flows. The foundation of this comprehensive silicon test flow is the TestKompress® automated test pattern generation (ATPG) solution for achieving high test quality with the lowest test cost. Complementing this scan test solution are Mentor's MBISTArchitect™ for memory built-in self test (BIST), the BSDArchitect™ 1149.1-compatible boundary scan tool, and the YieldAssist™ failure diagnosis and yield monitoring tools.

"Mentor provides a very thorough testing solution for our 65 and 40nm processes," said Stephen Fu, IP Development & Design Support Division Director at UMC. "Mentor's test tools provide the complete manufacturing test flow that our customers require. With this flow we are able to provide them with test tools that match the advanced technology provided by our 65 and 40 nanometer process nodes. This takes the guesswork out of implementing a thorough manufacturing test."

**Complete Testing Flow Provides Advanced Testing Capabilities** The UMC flow provides a range of advanced capabilities addressing new requirements in testing advanced IC devices. The TestKompress product provides highly compressed test patterns supporting a wide variety of fault models including stuck-at, transition, multiple detect, and timing-aware delay. Power-aware features in the TestKompress product adjust test patterns to reduce total power dissipation during testing and to keep maximum power under a user-specified threshold.

The MBISTArchitect tool automates the process of providing at-speed testing of multiple instances of memory, while keeping area overhead to a minimum. The BSDArchitect tool is used for inserting boundary scan and TAP control for the memory BIST. The YieldAssist tools enable rapid diagnosis of failing devices to identify the location and type of defects, keeping IC yields high.

"Our complete set of silicon test tools are targeted at advanced IC technologies such as the 65 and 45 nanometer processes offered by UMC," said Joe Sawicki, Vice President and General Manager of the Design-to-Silicon division at Mentor Graphics. "The UMC Reference Flow means that customers will have a fully verified test flow that can be applied to a wide variety of devices."

### **Availability**

The UMC 65nm and 40nm Reference Flow testing solution includes the MBISTArchitect, BSDArchitect, TestKompress, and YieldAssist products. All products are available now.

 [Click here to return to Contents](#)

## **Virage Logic's AEON® Becomes the First Multi-Time Programmable Embedded Non-Volatile Memory Available on a Standard CMOS Process Qualified to Rigorous Automotive Standard AEC-Q100**

23 June 2009

Virage Logic Corporation announced its [AEON](#)® multi-time programmable (MTP) non-volatile memory (NVM) solution is the first qualified to the stringent quality and reliability standards of the automotive

# CIMdata PLM Industry Summary

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industry using only standard CMOS processing. Automotive integrated circuits (ICs) demand reliability and qualification testing above and beyond the requirements of typical consumer or industrial applications. AEON is a multi-time programmable NVM on a standard CMOS platform that provides automotive-level reliability without requiring additional masks or processing steps. Because AEON was developed with the same rigorous quality and silicon validation standards that Virage Logic has become known for, it successfully qualified to meet the [automotive electronics council \(AEC\)](#) standard AEC-Q100 specification.

"Historically, the only multi-time programmable embedded memory available for automotive applications was flash," said Dr. Yankin Tanurhan, vice president and general manager, NVM Solutions, Virage Logic. "Because AEON provides a multi-time programmable embedded solution on a standard CMOS process, it eliminates the costly manufacturing steps typically associated with floating gate memory and reduces the engineering effort and costs involved with integrating NVM into system-on-chip (SoC) designs. AEON provides a lower risk, more profitable reprogrammable NVM solution that enables designers to confidently implement additional features and functionality into their automotive system designs."

AEON can replace one-time programmable (OTP) solutions with a fully electrically testable NVM block, allowing automotive IC manufacturers to deliver products that achieve a level of testability and reliability unavailable with OTP solutions. Embedding NVM and eliminating external EEPROM from system designs reduces power, area and cost, and increases security. AEON facilitates product differentiation by enabling features such as in-field customization, calibration, encryption keys and non-volatile counters.

Ideally suited for automotive applications that require reliability in the most demanding environments, AEON provides full read and program operation from -40°C to 150°C with minimum 10-year data retention at 150°C. AEON operates from a single supply voltage and supports read operations down to 1.6V, 100,000 write-erase cycles, bit counts from eight bits to 128 bits and addresses the needs of such automotive applications as trim, calibration configuration, instrumentation and localization. Full characterization and qualification data is available for qualified customers upon request. For foundry and process availability or to request a silicon characterization report, visit [Virage Logic](#).



[Click here to return to Contents](#)

## **Zweave Debuts Zdesign 3.0 to Reduce the Cost of Consumer Goods Manufacturing and Design Processes**

23 June 2009

Zweave announced the release of Zdesign 3.0, a product lifecycle management (PLM) platform that enables apparel, retail and related consumer product development teams to more cost effectively manage the way products are designed and produced as they strive to deliver higher quality goods in less time.

New features in Zdesign 3.0 include: Web 2.0 collaboration tools, streamlined workflow, intuitive search, content management and web publishing, and overall improved security and flexibility.

"Current approaches to PLM span basic technologies such as emailing and faxing to more sophisticated collaborative platforms rooted in manufacturing and supply chain management. These approaches can lead to time delays, costly production errors and rigid workflows that don't accommodate industry-specific needs," said Laura McCann-Ramsey, president and chief executive officer, Zweave. "Zdesign

# CIMdata PLM Industry Summary

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3.0 bridges the gap between these two approaches and was developed specifically for the apparel and retail industries.”

Zdesign 3.0 features a collaborative Ajax-based Web 2.0 interface to more easily create, source and manufacture consumer goods while maintaining greater control over the entire process. With more than 500 pre-built forms that accelerate the product development process, Zdesign 3.0’s capabilities make it easier to move and share the information across internal and external organizations. The document management capabilities are built into each of the templates making them more like online folders that can support attachments such as PDFs, images and spreadsheets. Users can comment, request and share information as well as assign tasks through these folders to employees across the organization, brand or division, for example. This sharing of collective knowledge is further extended through Zdesign 3.0’s ability to mirror wiki and instant messaging tools.

Enabling collaboration while supporting the need to work independently, Zdesign 3.0 also provides end users with the ability to customize their views of information through RSS feeds based on business needs.

The localized workflow capabilities allow different teams and divisions to establish the processes that best reflect their product design and development requirements. Going beyond traditional workflow tools, Zdesign 3.0 supports flexible notifications and group approvals to avoid potential bottlenecks in the development process. Further, with support for iCal and vCal, tasks can be instantly added to calendars to ensure the processes within workflows and project management schedules are executed on time.

The intuitive search features allow users to easily find information whether it’s through saved searches or contained within a PDF. Also, since Zdesign supports semantic searches and offer human-readable URLs, users simply search and find information more quickly based on their experiences.

Zdesign’s document management and web publishing capabilities reduce the time consuming efforts associated with filling out forms and templates while providing greater visibility into the design process. Users can easily transform their design documents into presentations and instantly publish their work to the Web or at a specified time without requiring additional programming or software. The technology also scales images so that users don’t have to waste unnecessary time resizing designs in different formats. Integration with Adobe Photoshop and Adobe Illustrator further streamlines the way that files and thumbnails are saved and shared. With support for more than five languages, Zdesign documents can be easily printed or saved as PDFs or Microsoft Word files without the Web-based headers and footers attached while more than 70 industry-specific reports can be published in HTML, PDF or Excel formats.

Enhanced security features provide greater control, authentication and tiered access to information with the benefit of single sign-on. Additionally, the system can provide alerts if and when others are actively using a document and can also recover accidentally deleted files.

Zweaves’s Zdesign 3.0 runs on Linux, Windows, Mac OS X, Solaris, and Unix platforms. Zdesign 3.0 is available immediately via subscription or on premise. Pricing is contingent upon licensing and configuration with monthly subscription costs starting at \$25 per user.

 [Click here to return to Contents](#)