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## CIMdata News

### ***CIMdata Announces Date and Location of Its Next CIMdata PLM Certificate Program***

12 January 2010

CIMdata, Inc., the leading global Product Lifecycle Management (PLM) consulting and research firm announces that the next CIMdata PLM Certificate Program is to be held in Andover, MA from March 8-12, 2010. The [CIMdata PLM Certificate Program](#) is the flagship offering of CIMdata PLM Leadership—the PLM industry's most comprehensive non-biased education and training offering for today's PLM professionals.

The CIMdata PLM Certificate Program prepares PLM professionals at several levels to successfully address the challenges inherent in PLM implementations. This assessment-based certificate program

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includes an intimate classroom experience, individual and team-based exercises, and individual evaluations of achievement. Additionally, the program provides candidates with intensive and extensive exposure to a team of CIMdata experts. Upon successful completion of the program, each participant receives a CIMdata PLM Certificate and thereby becomes a member of CIMdata's global *PLM Leadership* community.

According to Mr. Peter Bilello, CIMdata's Vice President, "CIMdata is excited to announce the location of our March 2010 CIMdata PLM Certificate Program. The Andover program represents the second time in less than 12 months that the program has come to Andover. We have consistently found Boston area industries to be receptive to PLM and as a result, we have chosen to schedule the program in a convenient location for them." PLM Certificate Program participants can register online for either the 3-day or complete 5-day program. This certificate program is available to industrial companies who are considering and/or implementing PLM, and to PLM technology and service suppliers. The CIMdata PLM Certificate Program is built on CIMdata's more than 25 years of extensive worldwide experience guiding industrial companies in successfully defining and implementing best-in-class PLM strategies and tactics. Please refer to CIMdata's website at [www.CIMdata.com](http://www.CIMdata.com) for detailed information on the CIMdata PLM Certificate Program, and for registering to it.

## About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding more than 25 years ago, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM enabling technologies.

CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia Pacific. To learn more about CIMdata's services, visit our website at [www.CIMdata.com](http://www.CIMdata.com) or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957; or at Siriusdreef 17-27, 2132 WT Hoofddorp, The Netherlands. Tel: +31 (0)23 568-9385. Fax: +31 (0)23 568-9111.

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## Company News

### *Altair Names Dharendra Verma as Vice President of India Services Operations*

13 January 2010

Altair Engineering, Inc. has named Dr. Dharendra Verma as vice president of [Altair ProductDesign India](#). In this newly created role, Dr. Verma will have primary responsibility for Altair's consulting services operations in India and support the company's global product development consultancy business with off-shore capacity.

"Dr. Verma represents Altair's vigorous commitment to invest in its Indian engineering services

# CIMdata PLM Industry Summary

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operation to achieve best-in-class status for this center,” said James R. Scapa, chairman and CEO of [Altair Engineering](#). “He will lead the development and execution of Altair’s Indian and off-shore business strategy and work to ensure the subsidiary’s growth and high quality delivery.”

Dr. Verma has more than 15 years of experience in building and managing effective engineering teams to develop highly engineered products. He joins Altair ProductDesign from Wipro Technologies, where he was responsible for engineering design services delivery. Prior to his role at Wipro, Dr. Verma held management positions at Chrysler Corporation, Covisint and PTC Corporation.

"Dhiren is an outstanding addition to our executive management team," said Mike Heskitt, vice president of global services delivery for Altair ProductDesign. "His prior management experience in OEM product development, information technology and consulting services aligns perfectly with our core business and brings a wealth of knowledge that will benefit our strategic planning, customer service and growth globally. His deep understanding of successful off-shore business models and the Indian market will increase the proportion of high-quality, off-shore engineering services we can offer on all client engagements to deliver more value."

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## ***Centric Software Awarded Fundamental Product Lifecycle Management (PLM) Patent***

13 January 2010

The United States Patent Office has awarded [Full Patent text](#), titled "Managing and Unifying Structured Representations of Product Information" to Centric Software. The patent recognizes a unique business method codified in the Centric product lifecycle and sourcing platform.

One of the key challenges in collaborative product development is the synchronization of groups that contribute to different aspects or "perspectives" of the product throughout the lifecycle. Traditionally PLM vendors have provided a single perspective, the product structure, or bill of materials. This does not work well when each group has a very different definition or perspective of the product. For example a product development group may define the product much differently than a sourcing group.

The [Centric](#) patent provides a unique way to allow the many functional groups that work on a product during its lifecycle to proceed independently through the steps, tasks, decisions and events they must accomplish, confident that as the various product definition evolves, "intelligence" within the system will synchronize the groups and notify them if the decisions of another group will affect them or their plans.

The value of Centric's new patented business method capability is that products are delivered more quickly and more efficiently in a multi-group setting, with fewer errors, and at lower costs and desired level of re-use.

"Many industries require different departments to collaborate simultaneously in developing and introducing new products and product lines. Traditional PLM has served well the needs of product development teams but struggled to integrate the other essential departments," explained Chris Groves, CEO at Centric. "With this breakthrough, Centric established an innovative method to orchestrate change across multiple departments and across multiple definitions of the same product. This provides a synchronization of processes that all need to be executed and synchronized in the development of a product."

Ravi Rangan, chief technology officer at Centric added: "The patent recognizes that this business

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method provides an information structure uniquely capable of uniformly and automatically scaling to manage the multiple, coexisting and concurrently operated dimensions or perspectives of a product that must be coordinated intelligently to manage it through its development, launch and lifecycle. By awarding this patent, the Patent Office, which is especially strict in issuing business method patents, recognized the unique value that this new capability delivers to Centric customers."

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## ***Gerber Technology Unveils New YuniquePLM™ Brand Identity***

14 January 2010

Gerber Technology unveiled its new PLM brand identity. With the recent acquisition of Yunique Solutions, the new brand, YuniquePLM will become an integral part of the company's commitment to offer a sophisticated global product lifecycle management platform.

YuniquePLM is a Product Lifecycle Management solution that delivers a full range of functionality needed by today's apparel, footwear, accessories and soft goods industry retailers, brands and manufacturers. This software is fully scalable and modular. A completely Microsoft .NET, web-based technology platform, YuniquePLM leverages the internet to provide users with ease-of-use and global connectivity needed to collaborate seamlessly across the enterprise and supply chain.

Further testing by Tom Mariano of Foliage (a third-party Software Consulting and Services group contracted to investigate the YuniquePLM software) states, "We found the quality of YuniquePLM's .NET architecture and code to be extraordinarily high, contributing to exceptional customer satisfaction. The code is mainstream and mature, yet leading edge."

In addition to typical PLM components including Line Planning, Collection Management, Tech Pack Configurations and Calendaring and Task Management, YuniquePLM provides Digital Library Management as well as Sourcing RFQ, Costing and Supplier Relationship Management capabilities.

Gerber's existing software products, including webPDM, will continue to be maintained, supported and enhanced. Gerber will provide a migration plan for existing data to the new YuniquePLM solution.

For additional information visit <http://www.yunique.com> or email [yuniqueplm@gerbertechnology.com](mailto:yuniqueplm@gerbertechnology.com).

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## ***ModuleWorks Expands Aachen Office***

January 2010

[ModuleWorks](#) begins 2010 with expansion at the head office at Aachen. The company now occupies all 3 floors of the building. This will provide for the ongoing expansion of the R&D team in Aachen. Part of the new space includes a full machine room containing 3 machine tools to prove out new machining toolpaths and strategies.

The expansion is helped by a very successful end to 2009 in which ten new sales were achieved in the final quarter. New Partners come from Europe, North America and Japan, further reinforcing the global nature of the ModuleWorks business. New agreements cover the range of ModuleWorks components including the market leading 5-Axis machining and newer Simulation and 3-Axis mesh-based machining components.

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Eight of the new sales include the latest Simulation technology. Marc Stautner, Research Director at ModuleWorks says, "Our continued efforts in the development of the Simulation product are producing very impressive results, and it is good to see that our partners are recognising this and starting to gain the benefits".

Managing Director, Yavuz Murtezaoglu comments "Despite tough economic conditions, ModuleWorks managed to maintain revenues and increase our range of partners; this has enabled us to increase our investment in R&D". He also states,"The economy remains a concern across the world but we do believe productivity will be a critical issue as recovery gains pace in the manufacturing industry and this will provide opportunities for advanced technologies such as 5-Axis machining and machine simulation".

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## ***Partnership Agreement Between PTC and Vinci Consulting***

7 January 2010

PTC® announced the signing of a partnership with Vinci Consulting, the management and IT systems consultancy, in the framework of its PTC Partnership Advantage program.

Vinci Consulting is a company with a headcount of 30 or so consultants specialized in innovation and technology management. Vinci Consulting supports the managers of major industrial groups such as EADS, Thalès, PSA, GDF Suez, etc. in the development of their innovation strategy, the alignment of their organization and processes, and the design and deployment of their IT systems.

Having recognized the functional richness, modularity and performance of PTC software solutions, Vinci Consulting will be striving to facilitate the adoption of these solutions by its clients by drawing on PTC's expertise in the field of product lifecycle management (PLM). The challenge is straightforward: how best to exploit the native capacities of PTC technology in order to avoid the need for specific development and so accelerate return-on-investment on PLM.

The two companies are looking to target specific markets together, such as Aerospace and Defense, Capital Goods and the auto industry in France and Germany.

PTC and Vinci Consulting will favor an approach based on consulting and expertise, in order to propose to their clients high-performance solutions to encompass the widest possible scope in the PLM value chain. [PTC](#) will be supplying the software solutions and Vinci Consulting the high value-added consulting.

Michel Maurino, Managing Director of [Vinci Consulting](#): "We are delighted to enter into this partnership with PTC in order to be able to provide our clients with innovative, durable and results-oriented products and solutions for their IT systems. This will allow us to offer our clients maximum added value in their innovation, collaboration and development processes."

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## ***SAP Strengthens Customer Focus and Brings Innovation Faster to Market through New Organizational Structure***

14 January 2010

# CIMdata PLM Industry Summary

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[SAP AG](#) announced the redesign of parts of its board to further strengthen its customer focus and deliver innovation faster to market. Customers will benefit from these organizational changes because the changes enable SAP to respond more quickly and flexibly to customers' rapidly changing business requirements. After the successful completion of the Business Objects integration, SAP now further adjusts its organizational structure to address customer needs more effectively through product development, and bring the right solutions more rapidly to its customers. Consequently, SAP will create a new **Industry and Solution Management** Board area under the leadership of **John Schwarz**, which will translate market requirements faster into SAP's future portfolio of solutions designed for their respective industry needs. Similarly, to develop scalable innovations and bring "best in class" products based on state-of-the-art technology faster to market, SAP will create a new **Product Design and Development** Board area under the leadership of **Jim Hagemann Snabe**.

"Our goal is to enable SAP to bring the right innovations and solutions to all of our customers in a much shorter timeframe. With these changes, we become more responsive to customer feedback, and can leverage collaboration and synergies across our organization more effectively. They will enable us to expand our industry leadership and successfully execute against our strategy for sustainable growth," said **Léo Apotheker**, chief executive officer, SAP. The organizational changes will become effective in April 2010.

In addition, **Bill McDermott**, president, Global Field Operations (GFO), and member of the SAP Executive Board who oversees all customer operations worldwide, has made the following management changes to the GFO Board area:

**Steve Watts** will serve as new president of Asia Pacific Japan (APJ), succeeding Geraldine McBride who will pursue opportunities outside the company. Watts has a 20-year track record in leading software business operations and for the past two years has served as chief operating officer (COO) for APJ.

**Michael Kleinemeier** will assume responsibility for Germany, Austria and Switzerland (DACH) as managing director. He succeeds Volker Merk, who has taken a sabbatical. Kleinemeier returns to SAP after two years and brings along broad industry and management experience. He has held several executive-level positions at SAP, including sales, consulting and training, and was managing director of SAP Deutschland AG & Co. KG and president of the former Europe, Middle East & Africa (EMEA) Central region.

To strengthen SAP's global focus and help drive growth in the DACH region and Japan, Michael Kleinemeier and **Garrett Ilg**, president of SAP Japan, will join the GFO leadership team directly reporting to Bill McDermott.

Furthermore, India becomes part of SAP's EMEA region and will be overseen by **José Duarte**, president of EMEA and India. The new region, called **SAP EMEA+India**, will be better able to take advantage of growth opportunities, natural trade flows and synergies among India, Middle East and Europe. The company also announced the appointment of **Peter Gartenberg** as managing director of India, replacing Ranjan Das, who passed away suddenly last year. Gartenberg was hired by Das and has been serving as COO of India since October 2009. He will report directly to Duarte. **Alok Goyal** will assume the role of COO of India.

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**Surfware Announces Reseller of the Year**

8 January 2010

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Surfware, Inc. announced that CAMcad Technologies, Inc. (Domestically) and 3D Concepts GmbH (Internationally) have been named “Resellers of the Year” for 2009. This recognition is not only for top sales performance and outstanding customer service, but also for the growth of their operations and investments in their business of selling SURFCAM CAD/CAM Systems. Surfware, Inc. has selected these 2 resellers from among more than 50 resellers worldwide.

“Both CAMcad Technologies, Inc. and 3D Concepts GmbH are very deserving of this recognition,” says Peter Marton, General Manager at Surfware. “Not only did these two resellers exceed sales expectations, each of them also managed to continue to grow their customer base to increase SURFCAM market share. CAMcad Technologies, Inc. also deserves special acknowledgment for increasing SURFCAM sales by 12% in 2009 over 2008. That was not an easy task in this challenging economy and says a lot about the quality of our SURFCAM resellers.”

3D Concepts GmbH had also been named dealer of the year (internationally) in 2008 and has achieved “Dealer of the Month” eight times in 2009.

## **About CAMcad Technologies, Inc.**

CAMcad Technologies provides manufacturing solutions, including SURFCAM CAM programming software for 2 thru 5 axes, training, consulting, contract programming, edit-free post processors, and most recently, custom automation of processes when “off-the-shelf” software is not enough. With more than 120 man years of manufacturing, IT and software development experience, CAMcad is qualified to catapult companies to the next level of productivity.

## **About 3D Concepts GmbH.**

3D Concepts GmbH, based in Empfingen at Haigerloch with branch offices in Germany and partners in Austria and Switzerland, is a SURFCAM CAD/CAM solution provider focused on engineering based product development and manufacturing. 3D Concepts’ customers include companies in the area of tool and mold, machinery, automotive, aerospace engineering, all of which have come to rely on the practical skills, experience and professionalism of the staff of 3D Concepts GmbH.

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## ***Survey Shows Mechanical Engineers Expect Increase in Sustainable Design Work***

12 January 2010

Results from the second annual Sustainable Design Trend Watch Survey, jointly commissioned by the American Society of Mechanical Engineers (ASME) and [Autodesk, Inc.](#) indicate that mechanical engineers expect to see an increase in sustainable design work in 2010.

Despite the challenging economy, respondents indicate with a 6 percent increase over last year that they believe sustainable design will be further incorporated into their work in 2010. The survey also reported for the second consecutive year that more than two-thirds of participating mechanical engineers have worked on sustainable products, and more than half of ASME student members are involved with sustainable design in their studies.

The survey is conducted to understand the effects of sustainable design on mechanical engineers and their manufacturing businesses in industries ranging from aerospace and automotive to energy and transportation. According to survey results, designs that use less energy or reduce emissions remain the most important sustainable technology practice, while manufacturing processes that use less energy and

natural resources were also a priority.

“The results of this important ASME-Autodesk survey demonstrate that sustainable design practices are exerting a positive influence on the mindset of engineers at all levels,” said Thomas G. Loughlin, executive director of [ASME](#). “Going forward, engineers will be at the forefront in creating sustainable technologies that produce large-scale impacts worldwide.”

“There is no question that sustainable design is a priority for mechanical engineers, and Autodesk collaborates with ASME on this survey to highlight the importance of making smarter, more sustainable design decisions at every step of the design process,” said Robert “Buzz” Kross, senior vice president, Manufacturing Industry Group at Autodesk.

One example of a manufacturer incorporating sustainable design practices is Ohio-based Unverferth Manufacturing Company, Inc. Unverferth is a family-owned manufacturer of agricultural and farming equipment, including a full line of tillage products, which worked to adapt its products to the soil conditions of different geographies.

Using Digital Prototyping, Unverferth has decreased the number of physical prototypes it builds by 75 percent. In doing so, the company decreased materials usage for prototypes from 230 to 60 metric tons annually. In addition, Unverferth has reduced product weight by 5 percent through more efficient use of materials.

## **Balancing Priorities to Achieve Sustainability**

The survey indicates that top drivers of sustainable design practices within organizations include regulatory requirements, rising energy costs and client demand.

Along with creating designs that use less energy and reduce emissions, respondents indicated that priorities include improving manufacturing processes to use fewer resources; using renewable, recyclable and recycled materials; and reducing material waste in manufacturing.

Similar to last year, respondents again indicated that cost is a major consideration, with one-third of respondents reporting they would consider sustainable technologies for new products only if they are cost saving.

## **Survey Methodology and Demographics**

The online surveys of more than 53,000 ASME professionals and nearly 20,000 ASME student members were conducted over a two-week period that concluded in November 2009. The questionnaire generated more than 3,000 respondents in the United States. About 65 percent of the professional engineer respondents had more than 20 years of engineering career experience, with more than 20 percent focusing on the design and development of products, systems or equipment. Nearly 20 percent of the respondents work in the energy and power industry, with another 15 percent in consulting/design/professional services. For more information on sustainability at Autodesk, visit <http://www.autodesk.com/green>.

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***20+ year CAE Sales Executive Joins Comet Solutions, Inc.; Sees Comet as Next Generation for Simulation-Driven Design***

6 January 2010

# CIMdata PLM Industry Summary

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Comet Solutions, Inc. announced that CAE software industry veteran Steve Sacro has joined the company's executive team as Director of Sales.

Before joining Comet Solutions in mid-December, Mr. Sacro was most recently Senior Account Manager for MSC Software Corporation where he was responsible for new sales to large Fortune 50 accounts. Mr. Sacro developed and managed the military ground vehicle vertical industry strategy and sales execution generating over \$10 million in software and services sales.

His industry experience spans over 20 years in the CAD/CAM/CAE and PDM software industry with MSC Software Corporation and Unigraphics Inc. (now Siemens PLM Software).

Steve Sacro states, "Customers that I know and trust are using Comet and testify to the benefits of working in an engineering workspace which is not tied to any specific CAD geometry or CAE tools. Many engineering departments are looking for this type of solution – one that allows them to automate their complex analysis processes. With Comet, engineers and designers gain insight into product performance much earlier in the product design process to improve productivity, lower costs, make better informed decisions and deliver more robust products to market." Sacro adds, "I am excited to be able to offer such a revolutionary product to the market."

Mr. Sacro has a Bachelor of Science in Management Information Systems from Ball State University and will work out of an office in Indianapolis and the Comet Solutions primary sales office in Cincinnati.

He can be reached at (317) 564-8119 or by e-mail to [steve.sacro@cometsolutions.com](mailto:steve.sacro@cometsolutions.com)

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## Events News

### ***AVEVA to Offer Advanced PDMS Training for Unemployed Piping Designers***

14 January 2010

To meet the needs of unemployed designers returning to work, AVEVA Inc. has launched a free special educational course, to be held in Houston February 8-12, 2010, that aims to help them hone and advance their design skills on the latest software as they re-enter the workforce.

AVEVA, which provides engineering IT software for industrial and marine construction, recently introduced AVEVA PDMS 12.0 SP5, the latest version of its flagship piping design program. AVEVA's pipe design course will provide engineers the opportunity to learn the software and bring their skills in line with today's employer requirements and needs.

AVEVA has achieved a leading position as a supplier of engineering software by focusing on the vertical relationships between the engineer, fabricator, constructor and owner/operator. "We're confident that piping designers displaced by the current pause in capital investments can find employment in the same industries where AVEVA is prospering," said Paul Spring, AVEVA Technology VP.

"Experienced piping designers can best prepare for those industries by training on the latest plant design software tools."

Piping designers interested in enrolling in AVEVA's course will be assessed by the Society of Piping Engineers and Designers (SPED). SPED will train less experienced piping designers and selectively refer more experienced ones to AVEVA for their course. "We welcome the chance to refer skilled pipers

# CIMdata PLM Industry Summary

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for more advanced training on PDMS," said William G. Beazley, SPED Executive Director. "Signs of pent-up demand for plants are everywhere. The best prepared will be the first to be hired."

For more information on the advanced training course, contact:

Amy Voss-Foster

SPED

832-286-3404

[spedadmin@spedweb.com](mailto:spedadmin@spedweb.com)

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## ***Delcam Healthcare Division in Chicago Triple Events***

15 January 2010

CADCAM developer Delcam will promote the latest developments from its Healthcare Division at three Chicago events during a single week in February. The company will show its OrthoModel and OrthoMill software at the American Academy of Orthotists and Prosthetists Annual Meeting at the Hyatt Regency from 24th to 27th, and will also demonstrate its DentCAD and DentMILL systems for the dental industry at the CAL-LAB Annual Meeting to be held in the Westin Hotel on 25th and 26th and at Lab-Day Chicago at the Sheraton Hotel on 27th.

Delcam established its dedicated Healthcare Division last year to provide a greater focus on this increasingly important part of its business. The Division helps companies across the medical, dental and associated industries to take advantage of the latest computer-based design and manufacturing techniques. The three Chicago events are part of a significant increase in the number of healthcare exhibitions where Delcam will take part during the year.

Companies in the healthcare industry face the same demands from their patients that Delcam's traditional engineering clients see from their customers for faster delivery of better and cheaper products. Patients want to receive higher quality products and services, and they want to complete their treatment in the shortest-possible time. At the same time, healthcare companies are under pressure to provide this higher quality at lower cost and to increase their productivity to meet the growing demand. Delcam believes that these requirements can only be met through the application of more advanced and more automated technology.

Delcam's increased emphasis on the healthcare industry comes at a time when the sector is expanding rapidly and when it is much more receptive to computer-based technology. The aging population in industrialised countries and the growing affluence of the emerging economies mean that the healthcare industry is seeing global growth. Through its existing engineering business, Delcam is established in more than 80 countries worldwide and so can provide international support to larger healthcare providers and original equipment manufacturers.

Equally, Delcam's focus on the toolmaking and subcontracting industries means that the company's staff are used to dealing with smaller companies on a local level.

[Delcam](#) has, of course, been active in many areas of the healthcare business for several years. Its design, reverse engineering, machining and inspection software are used in a wide range of applications from the production of prostheses, through to the manufacture of surgical instruments and all types of medical

# CIMdata PLM Industry Summary

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packaging. This is especially true for the PartMaker machining system for turn-mill equipment and Swiss-type lathes. These machines are used extensively for the manufacture of medical and dental components, to the extent that around 70% of PartMaker sales already come from the healthcare industry.

More recently, Delcam has introduced several specific products for the healthcare market. These include the DentCAD and DentMILL programs for the design and manufacture of dental restorations and the OrthoModel and OrthoMill software for the development of orthotics. The company also offers special versions of its CRISPIN range of footwear design and manufacturing software for the production of orthopaedic footwear.

The common theme with all these products is that they take existing Delcam technology and add a dedicated interface that uses imagery and terminology from the healthcare sector. This makes the software easy to learn and quick to use for healthcare professionals, even those that are not familiar with using computer-based design and manufacturing. Furthermore, all of this dedicated software has been developed in association with leading practitioners in the various areas of the healthcare industry. Support and advice from these experts continues to guide the further development of Delcam's programs.

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## ***Delcam Offers Free Training on PowerSHAPE CAD Software***

12 January 2010

Delcam is offering a free, one-day introductory training course for its PowerSHAPE CAD software at its Birmingham headquarters on Thursday 18th February. The day will give potential users of the software the opportunity to see the program demonstrated by expert users from Delcam, plus an opportunity for hands-on time on the system.

The day will cover the basic operation of PowerSHAPE for product design, drafting and modelling for manufacture. It is aimed at people with some experience of other CAD software that are interested in the latest release of Delcam's design system.

Attendees will gain a much better appreciation of the software than they could get from a standard demonstration, according to Delcam's Marketing Manager, Peter Dickin. "Most CAD demonstrations are undertaken by engineers with many years experience of the software," he explained. "This makes it difficult for potential users to judge whether or not the software is really easy to use, or whether it is the skill of the engineer or the capabilities of the software that is most impressive. The free training day we are offering will enable delegates not only to see an expert demonstration but also to try and achieve the same results for themselves."

All of the training will be based on the new 2010 version of PowerSHAPE. This includes an additional, industry-standard kernel for solid modelling, alongside PowerSHAPE's powerful surface modelling, making the release the most significant change to the software over the past ten years. The combination of the two technologies provides a powerful solution for designers that undertake conceptual design with PowerSHAPE and for toolmakers that use imported data extensively for tooling design with the software.

To allow delegates the maximum time for their own use of the software, the training course will be restricted to the first 30 registrants. Spaces will be limited to a maximum of two delegates from any

company.

To register for the free PowerSHAPE training, please go to <http://www.delcam.co.uk/powershape2010>

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## ***Delcam to Launch FeatureCAM 2010 at METAV***

14 January 2010

[Delcam GmbH](#) will launch the German-language version of the 2010 release of the FeatureCAM feature-based machining software at the METAV exhibition to be held in Dusseldorf from 23rd to 27th February. This will incorporate enhancements across the full range of functionality, from 2D drilling and wire EDM, to five-axis milling and mill-turn operations, reflecting the increased investment in development of the software since its acquisition by Delcam in 2005.

A range of improvements in the 2010 version will make the software even quicker. Most important of these developments is support for multi-threading when generating 3D toolpaths. This allows calculations to be spread across multiple cores in dual- or quad-core computers. Average time savings are around 25% on a dual-core PC.

Improved algorithms have been introduced within the user interface to speed up the editing of features and to reduce the time needed to switch between machine-tool set-ups, while more efficient handling of stock models will reduce the memory required for calculations and so enhance performance still further.

The most innovative new programming option is combined drilling and milling functionality that will allow more efficient hole creation on machines fitted with automatic tool changing. It generates roughing and finishing toolpaths to produce any holes for which the appropriate drill is not loaded, using the existing tooling within the machine's crib.

The new option is much faster than having to change the tooling available to match the set of hole sizes in each job, especially for companies manufacturing prototypes or short-run components. It will allow complex parts to be produced more easily in cases where the range of hole sizes is larger than the number of positions in the crib. In addition, the number of different tools that need to be stocked can be reduced and it will be much simpler to move jobs between different machine tools.

Other new options include a new spiral finishing option that gives faster machining and improved surface finish with no dwell marks, and automatic rest roughing to minimise air cutting when applying a series of progressively-smaller roughing cutters. In addition, a 3D chamfer can be added to a part, even when this is not shown in the model, for de-burring and similar clean-up operations.

Two improvements have been duplicated from PowerMILL to give faster machining and better surface finish. FeatureCAM now has the same ability to redistribute the points within any toolpath to enable faster, smoother machining. Similarly, the program can now undertake tool-axis smoothing to avoid sudden changes in orientation of the cutter during five-axis machining.

Machining simulation has also been made faster and more accurate, in particular for simultaneous five-axis machining. In addition, a new dual-view option allows a part to be viewed from two different angles simultaneously. This will be most helpful when simulating the production of large or complex parts.

The range of post-processors available with FeatureCAM has been further extended for both five-axis and mill-turn equipment. New machines now supported include the DMG CTX and GMX, Doosan

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Puma MX and TT, Mazak Integrex ST, Nakamura NTX and NTJX, and Okuma Macturn.

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## ***Delcam to Launch New-Look ArtCAM JewelSmith at Spring Fair***

11 January 2010

Delcam will launch the 2010 version of its ArtCAM JewelSmith software at the Spring Fair to be held at the NEC, Birmingham, from 7th to 11th February. The new release features a completely new interface that can be customised by the user to give them the optimum productivity, together with many other enhancements to its modelling and machining capabilities.

ArtCAM JewelSmith allows jewellers, pewter-smiths, silversmiths and goldsmiths to create highly-crafted personalised or custom pieces or new complete lines with ease. Jewellery can be created directly in the software or if master model makers prefer they can first either draw their designs, hand sculpt a 3D model, or create the piece in an alternative CAD package. Their work can then be simply scanned or imported directly into ArtCAM JewelSmith.

Using ArtCAM JewelSmith's relief layering system, the user can build their design using a number of layers, in a similar fashion to PhotoShop, which can then be edited at any point during the design process. These layers can be worked on individually, so allowing the user to undertake detailed editing without having to update the whole model.

With the ArtCAM 2010 release, users can customise the user interface so that any unused tools can be hidden and shortcuts created for frequently used commands. Jeweller Michael Buckley, from Michael's Designs reported that, "The new interface gives you so much drawing space. It's clean and uncluttered so there is no real need for multiple screens. I also love the ability to create my own shortcut keys and toolbox; it makes my work time even shorter."

ArtCAM JewelSmith comes with a complete library of shanks and gems that can be used as the starting place for any ring design. The jeweller can add the intricacies to the piece using the software's advanced sculpting tools. These not only allow the jeweller to replicate traditional sculpting methods by using a Wacom tablet, but also allow them to modify the size and strength of the tools as well as simultaneously sculpting the front and back of a design. Todd Bailey, from 4m3D Creative Design said that, "The significant changes to the interactive sculpting tools really make ArtCAM stand out from other products." Michael Buckley adds, "It is great being able to see both the front and back of the model – what a timesaver!"

For band rings, the jeweller also has the option to design on an unwrapped layout of their ring. They can then switch between an unwrapped and ring view at any time to make sure as the design progresses.

Once complete, the jewellery model can then be saved as a rotatable 3D PDF file, which can then be e-mailed to the customer for approval. Once authorised, the designer can then select one of ArtCAM's machining strategies to calculate the toolpaths required for manufacture.

In the 2010 release, a great deal of technology, including the latest multi-threading capability, from Delcam's CAM system, PowerMILL, has been incorporated into ArtCAM JewelSmith to enable even faster calculation times. "The faster tool calculation times save me an enormous amount of time," commented Michael Buckley.

Before the toolpaths are sent to the machine, the artist can check the appearance of the resulting piece

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using ArtCAM's new and improved toolpath simulation. This gives the designer the opportunity to alter their calculations prior to machining, saving both time and money.

For more information on ArtCAM JewelSmith ([www.artcamjewelsmith.com](http://www.artcamjewelsmith.com)), please contact:-

Rebecca Freemantle

ArtCAM Marketing Manager

E-mail:[rlf@delcam.com](mailto:rlf@delcam.com)

Direct Tel No: 0121 683 1003

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## ***47th Design Automation Conference Submission Deadline for User Track Technical Presentations Extended; Submission Deadline for Extended Abstracts Monday, January 18, 2010***

14 January 2010

The 47th Design Automation Conference ([DAC](#)) will once again provide a forum with user-focused technical presentations in 2010. IC designers, application engineers, design flow developers, and vendor-customer teams are invited to submit two-page abstracts describing the real-life issues they faced while using EDA tools to design a complex electronic system. User track contributions may also address the integration of EDA tools within a design flow or any methodology to produce electronic systems. The 47th DAC will take place from June 13-18, 2010, at the Anaheim Convention Center, Anaheim, CA.

The inaugural [DAC User Track](#) in 2009 featured 43 Oral technical presentations and 38 technical posters presented by leading companies such as Cisco Systems, IBM Corp., Intel Corp., Marvell, and Texas Instruments, Inc. Audience response was very positive. Feedback indicated that attendees found great value in the presentations, which provided "in the trenches" experiences with in-house and commercial EDA tools.

"DAC attendees not only acquire information on new tool and methodologies, but also learn the benefits and best practices of using tool flows by attending the User Track," said Alicia Strang of Marvell, User Track Presenter at DAC 2009.

User Track presentations are in the form of either an oral presentation or a poster presentation. A User Track paper may be problem-specific in scope (e.g., analyzing substrate coupling during floorplanning) or may address a specific application domain (e.g., designing wireless handsets). Initial submissions take the form of a two-page extended abstract, a quick and convenient format for busy practitioners. Abstract submissions are open now through 5:00 p.m. Mountain Time, January 18, 2010.

"The User-Track Poster Session is a very free-flowing process that takes the pressure off of preparing for a full presentation; at the same time, it helps authors convey their ideas in a friendly, interactive and efficient manner," said Ben Chen of Cisco, User Track Presenter at DAC 2009.

"The DAC User Track provides practical, real-life information on tool use and best practices," said Sachin Sapatnekar, General Chair, 47th DAC Executive Committee. "Last year's presentations were especially well received, and our Program Committee looks forward to even more valuable, user-focused sessions again in 2010."

### **Submitting Abstracts to the DAC User Track**

As stated earlier, the submission process for the User Track simply requires authors to develop a short abstract: a two-page overview of the key challenges, innovations and results. After the submitted

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abstracts are reviewed, selected authors will be required to provide only a detailed presentation. Authors with accepted presentations and posters may choose to write a more detailed technical paper for online archiving purposes, but paper writing is not a requirement.

User Track abstract submissions will be reviewed by a specialized technical committee comprised of industrial end-users with expertise covering a large range of semiconductor products, design methodologies and tool use. Evaluation criteria can be found in the User Track submission guideline: [http://www.dac.com/47th/PDFs/47th\\_DAC\\_User\\_Track\\_Guidelines.pdf](http://www.dac.com/47th/PDFs/47th_DAC_User_Track_Guidelines.pdf)

For more details, please see the User Track Call for Papers on the DAC website -- <http://www.dac.com/47th/UTinfo.html>

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## ***Geometric to Unveil CAMWorks® 2010 and DFMPRO 2.1 at SolidWorks World 2010***

5 January 2010

[Geometric Technologies, Inc.](#), a subsidiary of Geometric Limited and a leader in developing advanced manufacturing softwares will showcase the upcoming releases of CAMWorks® and DFMPRO at SolidWorks World 2010, booth #425, in Anaheim Convention Center, CA, USA from January 31 - February 3, 2010. Both CAMWorks and DFMPRO are integrated within the SolidWorks® platform, enabling intelligence and automation in design as well as manufacturing processes.

Announcing the new versions, Dr. Vinay Kulkarni, Vice President and Head – Desktop Products and Technologies, Geometric said, “In this current global scenario, manufacturing companies are searching for ways to automate their processes, compress delivery times, and reduce inefficiencies. In order to achieve these goals, they are looking for novel solutions for trapping manufacturing errors early in the design stage, and for effective collaboration between designing and manufacturing. This can be easily facilitated by using integrated SolidWorks solutions like DFMPRO and CAMWorks.”

CAMWorks 2010 has over 50 customer driven features and enhancements for machining faster and more accurately. These include advances to feature recognition, advances in multi-axis machining, as well as improved cutting strategies for 2 to 5 axis milling, turning, and wire EDM. The release also includes support for SQL database interface for improved performance, and multiple user access for the proprietary knowledge database - TechDB™. CAMWorks was the first Gold Partner CAM (computer-aided manufacturing) solution designed exclusively to operate in SolidWorks. For more information on CAMWorks 2010, please visit <http://www.camworks.com>.

DFMPRO version 2.1 adds an injection molding module packed with some of the most important industry best practices for manufacturability of injection molded components related to wall thickness, draft analysis, undercuts, mold wall thickness, ribs, bosses, etc. SolidWorks users will be able to quickly verify their designs within SolidWorks, thus reducing cost and time-to-market, while also improving the quality of manufactured parts. DFMPRO also facilitates collaborative design review process by generating comprehensive 3D reports in eDrawings format. This capability is very useful for suppliers to quickly generate eDrawings reports and share it with the OEM for their review, comments and acceptance. For more information on DFMPRO and how it helps in create designs right the first time, visit [www.dfmpro.com](http://www.dfmpro.com) Demonstrations of CAMWorks 2010 and DFMPRO version 2.1 will be given in booth #425 throughout the three day conference. Attendees will also have the opportunity to speak with the company's application engineers and executives during the following presentations:

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“Design, Collaborate, Verify and Manufacture - A New Approach” at the Certified Partner Theater on Saturday, January 31, at 6:15 p.m. by Mike Sours, Director IT, Support and Services, Geometric.

“Automated DFM checks for Sheetmetal components using DFMPPro” at the Technical Training Sessions, on Monday, February 1, at 4.30 p.m. by Bhaskar Sinha, Product Manager, Geometric

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## **MCAD Online Webinars based on KOMPAS-3D**

14 January 2010

ASCON Group is presenting online training sessions for 2D and 3D CAD based on recently released KOMPAS-3D V11.

Online Webinars for KOMPAS software solutions are available for current and potential customers, 3D beginners, partners of the company, as well as all the interested in this professional and cost-effective MCAD solution. All the participants will be able to benefit from online familiarization with Mechanical CAD solutions, as well as get support and advice in any questions regarding KOMPAS-3D and KOMPAS-Graphic. The free webinars will be held in English by highly qualified specialists from ASCON and will cover general 2D and 3D modeling topics, based on KOMPAS-3D system, as well as consider the novelties of KOMPAS-3D V11 towards to previous versions.

Here is brief overview of upcoming seminars:

1. KOMPAS-3D V11 New features. Overview of new features: 3D Modelling
2. KOMPAS-3D V11 New features. Overview of new features: 2D Modelling and interface
3. New applications: Standard Parts, Unwrap Add-On, Steel Structures 3D
4. Sketch mode: Import DWG/DXF geometry, creation of real sketch, using parameterization, constrains and variables in sketch mode
5. Part creation: Import 3D geometry and applying feature recognize functional, Part creation functional overview, Multibody interface, Boolean features, using parameterization, variables
6. 2D in KOMPAS-Graphic: Drawing creation. During this seminar we will be demonstrated all the process of current part drawing - from creation of the new document till printing
7. Sheet metal: Review techniques of sheet metal functional of KOMPAS-3D
8. Mutibody interface and boolean features: Tutorial how to work with multibody and boolean features functional
9. Assembly creation: Assembly modelling
10. Assembly creation: Parametrization in assemblies
11. Working with BOM: BOM creation and editing BOM styles
12. Pipelines 3D: Examples of pipelines design with Pipelines 3D
13. CAE stress analysis with APM Studio FEM: Examples of working with application
14. CAE dynamic and kinematic analysis with UM express: Examples of working with application

You are invited to take part in webinar totally devoted to overview of functionality and possibility of 2D

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and 3D Parametric Modelling based on KOMPAS-3D and KOMPAS-Graphic solutions. The first two seminars are scheduled for 20th of January and 3rd of February 2010.

To register for webinars or get additional information about KOMPAS solutions, email [contact@ascon.net](mailto:contact@ascon.net)

The number of participants is limited, do not miss an opportunity and register first.

Prepare for webinars and download KOMPAS-3D V11 30-Days Trial at <http://ascon.net/download/kompas/>

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## ***Mentor Graphics Chairman and CEO to Present Keynote at the 15th Asia and South Pacific Design Automation Conference***

14 January 2010

[Mentor Graphics Corporation](#) announced that Dr. Walden C. Rhines, Chairman and CEO, will present a keynote address at the 15th Asia and South Pacific Design Automation Conference ([ASP-DAC 2010](#)).

**Who:** Dr. Walden C. Rhines, Chairman and CEO, Mentor Graphics Corporation

**What:** Presenting “Delivering 10x Design Improvements”

**When:** Tuesday, January 19, 2010 at 10:20 AM –11:20 AM (Taiwan time)

**Where:** Taipei International Convention Center, Taipei, Taiwan, 1F

In his keynote address, Dr. Rhines will discuss the challenges that engineers and companies face as the electronic design automation industry moves towards adoption of 28nm and below, with its exponential rise in complexity. He will also explain why in the next five to seven years 10x improvements in design methodologies will be needed in four principal areas: high-level system design, verification, embedded software development, and back-end physical design and test. For more details, read the full abstract.

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## Financial News

### ***Cadence Announces Fourth Quarter And Fiscal Year 2009 Financial Results Webcast***

8 January 2010

**Who:**

Cadence Design Systems, Inc. to announce fourth quarter and fiscal year 2009 financial results via webcast.

**What:**

You are invited to attend the fourth quarter and fiscal year 2009 financial results audio webcast. Participating on the webcast will be Lip-Bu Tan, president and chief executive officer, and Kevin S. Palatnik, senior vice president and chief financial officer.

**When:**

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The webcast will begin Wednesday, Feb. 3, 2010 at 2 p.m. (Pacific)/5 p.m. (Eastern). An archive of the webcast will be available from 5 p.m. (Pacific) Feb. 3 until 5 p.m. (Pacific) Feb. 17.

### Where:

The webcast will be available online at: [http://www.cadence.com/cadence/investor\\_relations](http://www.cadence.com/cadence/investor_relations)

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### ***PTC to Announce Fiscal Q1 Results on Tuesday, January 26th and Host Conference Call on Wednesday, January 27th at 8:30 am ET***

13 January 2010

PTC announced that it will release its fiscal 2010 first quarter results on Tuesday, January 26th after the stock market closes. Senior management will host a live webcast and conference call to review the results on Wednesday, January 27th at 8:30 am Eastern Time. The earnings press release and accompanying prepared remarks document and financial and operating statistics will be accessible prior to the conference call and webcast on the investor relations section of the Company's web site at <http://www.ptc.com>.

### What:

PTC Fiscal Q1 Conference Call and Webcast

### When:

Wednesday, January 27, 2010 at 8:30 a.m. Eastern Time

### Dial-in:

1-888-566-8560 or 1-517-623-4768

Call Leader: Richard Harrison

Passcode: PTC

### Webcast:

<http://www.ptc.com/for/investors.htm>

**Replay:** The audio replay of this event will be archived for public replay until 4:00 pm (CT) on February 1, 2009 at 1-866-373-4992 or 203-369-0272. To access the replay via webcast, please visit <http://www.ptc.com/for/investors.htm>

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## Implementation Investments

### ***ABB Finland Implements Organices***

11 January 2010

Cadac Organice EMEA, distributor of Cadac Organice, a Microsoft Gold Certified Partner and developer of [Organice](#) a SharePoint based engineering document management solution, has received an order from [ABB](#) Finland to rollout the Organice Product Suite for a first group of 30 engineers. Cadac

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Organice EMEA is assisted in this project by its Finnish partner [CADi Oy](#).

ABB is a global leader in power and automation technologies that enable utility and industry customers to improve their performance while lowering environmental impact. The Process Industry department of ABB Finland has concluded that Organice is the ideal SharePoint-based solution for the management of their engineering related documents. During a period of four months, [Organice Explorer](#), [Organice Transmit](#) and [Organice Solution Accelerator](#) have been subject to extensive testing by a team of 10 engineers and CAD designers. The positive outcome of that proof-of-concept has led to a further roll-out of Organice Explorer to the rest of the engineering team. Organice Transmit has been selected for efficient and accurate document distribution and tracking. Further evaluation will be done to understand to which other ABB departments Organice can add value.

Cadac Organice EMEA BV and Finnish partner CADi Oy are proud to add ABB Finland to their list of Organice customers.

## About Cadac Group

Cadac Group is specialized in offering IT solutions to create, manage and share digital design information. Next to offering IT solutions, Cadac Group is an Independent Software Vendor developing Microsoft SharePoint based applications. The Cadac Organice Product Suite is worldwide successfully implemented at project driven organizations. Cadac Group actively focuses on opportunities that support our customers in improving their design process and project communication. Cadac Group is an Autodesk Premier Solution Provider, a Microsoft Gold Certified Partner and an Oracle Certified Partner. For more information, please visit <http://www.cadac.com>

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## ***Agilent Technologies' RFIC Solutions Software Accelerates Design, Verification of ACCO Semiconductor's Next-Generation CMOS Power Amplifier***

11 January 2010

Agilent Technologies Inc. announced that ACCO Semiconductor has selected a comprehensive suite of Agilent's RFIC design, verification and modeling software for design of its next-generation CMOS power amplifier. This software, used for integrated, mixed-signal RFIC designs, coupled with Agilent's wireless verification IP portfolio for design and test, enables a streamlined design flow that allows ACCO Semiconductor to drive its design project from initial conception to final product.

"In today's cellular marketplace, one of the most difficult jobs for an R&D manager is to navigate from product concept to finished product -- a process which, to be successful, typically requires the application of multiple technologies and multiple design flows," said Ron Das, president and CEO of ACCO Semiconductor. "The entire design chain must be coordinated or it will break, resulting in a missed deadline or market window, significant cost overruns, and lost business. The streamlined flow provided by Agilent's EDA tools allows us to avoid these hardships and bring our product to market faster."

A streamlined flow is critical to successful product development and key to eliminating the integration risks that can arise late in the development cycle. Agilent's streamlined design and verification flow serves as a focal point for all teams involved in product development -- including semiconductor modeling, system architecture, RF design, and prototype validation. It begins with active and passive modeling, using Agilent's IC-CAP device modeling software and Momentum 3-D planar

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electromagnetic simulator. The flow then continues into system design using the leading-edge RFIC tools in Agilent's GoldenGate software, along with Agilent's wireless verification libraries. Common waveforms and data processing algorithms are used throughout design and measurement to ensure a coherent and efficient prototype verification process.

## About GoldenGate

GoldenGate is a trusted simulation, verification and analysis solution for integrated RF circuit design within the Cadence Virtuoso design flow. Its simulation algorithms are optimized for the demands of today's complex RF circuit design, enabling full characterization of complete transceivers prior to tape-out. GoldenGate is part of Agilent's RFIC simulation, analysis and verification solution that also includes Momentum for 3-D planar electromagnetic simulation, Ptolemy Wireless Test Benches for system level verification, and the Advanced Design System (ADS) Data Display for advanced data analysis. This suite links the RF system, subsystem, and component-level design and analysis as part of a unique and comprehensive RFIC design flow. GoldenGate is fully compatible with Cadence IC5 and IC6 platforms.

For more information about Agilent's GoldenGate, go to <http://www.agilent.com/find/eesof-goldengate>

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## ***Cadac Organice Serves the Largest Builder in the Netherlands***

15 January 2010

After wide experience with Cadac Organice in multiple projects, BAM Woningbouw and BAM Utiliteitsbouw have decided to rollout Cadac Organice and SharePoint throughout their operating companies

Cadac Organice BNL BV, distributor of Cadac Organice BV, a Microsoft Gold Certified Partner and developer of [Cadac Organice](#), a SharePoint based engineering document management solution, provides its services already successfully to BAM Woningbouw and BAM Utiliteitsbouw. Based on this success also other operating companies of Royal BAM Group are considering the use of Cadac Organice.

[BAM Woningbouw](#) (housing) was already in 2006 one of the first Dutch construction companies that choose to manage their project documents with Microsoft SharePoint. Since they felt that SharePoint out-of-the-box did not bring them the user friendliness and navigation they were looking for, BAM choose the Cadac Organice Explorer client, which enhanced the SharePoint user experience for their users. Stefan van de Valk, ICT Manager BAM Woningbouw: "By using Cadac Organice, BAM Woningbouw is able to manage the increasing amount of information that is processed day in day out."

Two years later [BAM Utiliteitsbouw](#) (utilities) chooses SharePoint and Cadac Organice. The first project that used Cadac Organice was the extension of the Radboud Hospital in Nijmegen. The big advantages for the users were the easy way to work with documents through metadata, the visual folder structure, and the internal viewer to view drawings. In addition Cadac Organice Transmit is used to efficiently distribute documents to project partners. Cees Rens, ICT Manager BAM Utiliteitsbouw: "With Cadac Organice we are able to improve our business process in an early stage of the project. And that immediately brings us benefits!"

Due to the success of Cadac Organice in the multiple projects, BAM Woningbouw and BAM Utiliteitsbouw have decided to rollout Cadac Organice and SharePoint throughout their operating companies. In addition other operating companies of the Royal BAM Group are considering the use of

Cadac Organice.

Ben Spreen, Sales Manager Cadac Organice BNL: “We are very proud and pleased that the largest builder in the Netherlands and one of the largest construction companies in Europe has chosen our Product Suite”.

## **About Royal BAM Group**

Royal BAM Group nv initializes, develops, builds and maintains projects around living, working, transport and recreation. BAM includes operating companies active in the Construction, Property, Civil engineering, Public-private partnerships, Mechanical and electrical contracting and Consultancy and engineering sectors.

[Royal BAM Group](#) is one of the largest construction companies in Europe. The company is market leader in the Netherlands and has strong positions in the UK, Ireland, Belgium and Germany. Worldwide BAM is active in projects in over 30 countries.

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## ***Catalog Data Solutions Online Catalog Selected by Amphenol® Connex Corporation***

12 January 2010

Catalog Data Solutions (CDS) announced that Amphenol® Connex, an industry leader of radio frequency interconnect products, has selected the CDS Catalog for their website’s product catalog.

Amphenol® Connex designs and manufactures world-class RF connectors, interfaces, crimp tools and accessories. “We offer literally thousands of products with options, types and configurations so a parametrically searchable catalog on our web site will save our customers time in locating and specifying our products,” said Mike Comer, Business Unit Manager, Amphenol Connex. “CDS’s online catalog system was chosen over several other vendors for its superior software features including parametric search, locator search, and being a SaaS based product.”

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## ***CATIA-Designed Vehicles Continue to Take Over the Road***

12 January 2010

Dassault Systèmes ([DS](#)) announced that CATIA, the company’s solution for virtual design, was used in the development of nearly 80 percent of the production and concept vehicles making their world debut at the 2010 North American International Auto Show (NAIAS) taking place at Cobo Hall in Detroit, January 11-24. Additionally, CATIA was utilized in the design of the 2010 North American Car of the Year – the Ford Fusion Hybrid -- and Truck of the Year -- the Ford Transit Connect -- as well as many of the EcoExperience cars, which all run on some combination of electric or hybrid powertrain technology.

“CATIA plays a strategic role in helping automotive companies retain a competitive edge,” said Dassault Systèmes VP of Design Experience, Anne Asensio, who is serving as a chief design judge at the EyesOn Design competition at the show. “Our goal is to provide an enabler for designers to seamlessly carry their visions into reality, empowering them via Dassault Systèmes technology.”

CATIA and its knowledgware capability have long offered freedom for innovation and significant time

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savings in bringing relevant vehicles quickly to market with increased quality. Says Asensio, “Now, with our new generation of V6 design solutions, we move beyond 3D mockup and Product Lifecycle Management into the creation of intelligent virtual products that allow form, behavior and interactions to be tested in life-like situations inclusive of consumer emotion and preferences. This will enable the industry to make critical decisions earlier in the vehicle development process, helping to deliver cars that people truly desire.”

In addition to bringing the consumer closer to the product development process, the Dassault Systèmes V6 platform can aid automakers in meeting mandated emissions standards. Increasingly complex advanced and alternative powertrain technologies, as evidenced by the EcoExperience vehicles at the 2010 Detroit Auto Show, will continue to be a necessary trend. The CATIA V6 platform, which links all engineering domains (mechanical, electrical, software) into a common and dynamic engineering template to optimize the design process, allows all vehicle systems to be tested and validated together versus being tested in silos, as typically occurs today.

Adding to the growing use of CATIA in the automotive industry is the fact that its embedded knowledgeware is very easy for non-computer programmers to learn and use. This allows designers and engineers to create the templates rather than requiring programmers to compile code in external applications.

\* Based upon NAIAS vehicle introductions listed as of 01.04.10 in Automotive News and MotorTrend.

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## ***Delcam’s FeatureCAM Cuts Programming Times by up to 75%***

13 January 2010

Since changing to Delcam’s FeatureCAM knowledge-based CAM system, Vector Tool & Engineering has reduced programming time for feature-intensive 2.5D parts by 50% to 75% and for less feature-intensive 3D parts by 25%. This adds up to a lot of savings for the mouldmaking company that generates an average of 240 new programs every month. In addition, machining time has been saved by the software’s more efficient rest-machining and trochoidal-milling capabilities.

Located in greater Kansas City, Missouri, Vector Tool & Engineering offers complete engineering and fabrication of injection moulds and tooling for the plastics industry, as well as contract machining for the aerospace industry. The company is a subsidiary of Peterson Manufacturing, a leader in safety lighting products for the automotive and heavy-duty truck markets since 1945.

While Vector Tool continues to see growth in new mould builds, the company also carries out extensive revision, rebuild and maintenance for its customers both inside and outside the Peterson Group. This combination of work requires fast reaction times to keep customers up and running.

“Our business has become more and more competitive, and CNC programming has always been a very critical factor for us,” said Randy Bennett, Lead Programmer for Vector Tool. “We felt that we needed a major improvement in efficiency that we were not getting from our previous software. The thing that sold us on FeatureCAM was its ability to automatically recognise features such as holes, pockets, bosses and slots, in 3D solid and surface models. This means that we don’t have to deal with each individual surface but can program features instead. This is much less time-intensive because there are far fewer features and because the inherent commonality of features means that they can often be programmed from libraries.”

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After the design phase is complete, the company's CNC programmers begin by importing the component. After the programmer is satisfied with the way that the features have been defined, the next step is to pick tools, and speeds and feeds, for machining each feature. The natural repetitiveness of features means that it is often possible to pick a tool and machining conditions from a similar example that has been machined previously and saved in the software's library. Many parts also have multiple copies of some features and in this case the relevant program can be copied easily to each location where it is needed.

Dave Kennedy, CNC Manager for Vector Tool & Engineering, said that Delcam does an excellent job of supporting FeatureCAM. "[Delcam](#) showed a willingness to listen right at the very beginning when, instead of presenting a canned demonstration, the demonstrator asked for one of our part files and programmed it in front of our eyes," he said. "The support team responds to our inquiries efficiently and, in the few cases when they don't have an immediate answer, they get back to us very rapidly."

"Our switch to FeatureCAM has helped us improve our programming efficiency greatly," Mr. Bennett concluded. "The productivity of our programmers has been increased substantially, especially on the feature-rich 2.5D parts which constitute the vast majority of our programming workload. We have only used the new software for a few months so we believe that we should be able to achieve considerable additional productivity gains. We have also seen significant reductions in cycle time, especially on 3D parts, and surface finish has also been improved. Delcam staff represented the product very accurately. It does everything they said it could do."

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## ***Freescale Semiconductor Collaborates with Mentor Graphics on Tessent Silicon Test, Yield Analysis, Calibre Physical Verification and DFM***

11 January 2010

[Mentor Graphics Corporation](#) announced that Freescale Semiconductor has selected Mentor as an ideal partner in the silicon test, yield analysis, physical verification and DFM technology areas.

The collaboration enables Freescale's deployment of Mentor's Tessent™ and Calibre® technologies covering design for test (DFT), physical verification and analysis, advanced resolution enhancement technologies (RET), and pre- and post-tapeout design for fabrication and manufacturability (DFM). The new technologies expand on the work of an existing collaboration between Freescale and Mentor for developing design flows and methods to improve design for manufacturing and silicon test capabilities.

"Freescale needs fast time-to-market, so we continue to invest significant resources to provide leading-edge capability throughout the design process," said Ken Hansen, Vice President and Chief Technology Officer at Freescale. "Mentor's platforms are an integral part of Freescale's design flow, helping us provide silicon solutions that have a high degree of testability, reliability and manufacturability. We chose Mentor Graphics because of its leadership in the DFT, physical verification and DFM technology areas. This alliance enables Freescale to leverage one design flow to expand product functionality and serve multiple markets, while reducing our development cycle time."

"As a close partner with Freescale, we continue to see the benefits of working together on our common goal of achieving higher product functionality and reliability with accelerated time to market," said Joseph Sawicki, Vice President and General Manager for the Design-to-Silicon division at Mentor Graphics. "Our work together helps Mentor provide technologies to Freescale that increase the performance and scalability of their most advanced SoC designs."

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## ***Leading Semiconductor Suppliers Use Calibre PERC to Check for Protection Against Catastrophic Electrical Circuit Failures***

13 January 2010

[Mentor Graphics Corporation](#) announced that its [Calibre® PERC](#) product is being employed at ON Semiconductor and Faraday Technology Corporation. The product, which automates electrical checks based on user-defined rules, is designed to address customers' need to improve reliability by identifying areas of vulnerability to catastrophic electrical failures in ICs during factory test, transport, and field operation.

“Calibre PERC directly addresses an important requirement for electrical rule checking that is currently an unmet need in the industry,” said Yu Wen Tsai, director of design development at Faraday Technology. “Ensuring that we have met all ESD protection rules is critical to the robustness of our designs in portable and high-reliability applications. In the past this has been a lengthy and error-prone process addressed with a combination of manual checks and custom scripts. Calibre PERC is right on target to address this need.”

“We have worked very hard to develop a comprehensive strategy to avoid catastrophic electrical design faults, including developing custom tools,” said Peter Zdebel, senior vice president and chief technology officer for ON Semiconductor. “Checking for illegal connections across multiple voltage domains is a tough problem requiring a very versatile checker. When we looked for a commercially supported product, Calibre PERC was the only one that met our need for a fast, flexible tool that could handle our most complex, multi-power domain needs. Since it is built on the proven Calibre platform, we’re confident it can scale to meet our largest designs now and in the future.”

The Calibre PERC product addresses a range of applications including validating that a circuit has sufficient protection against electrostatic discharge (ESD) events, and helping designers identify inappropriate connections between multiple power supplies in mixed-signal ICs. In the area of ESD verification, the Calibre PERC product ensures the completeness of circuitry needed to protect a device against ESD events, which can cause catastrophic device failures in manufacturing, leave devices susceptible to damage during shipping and assembly, and decrease device life in the field. The Calibre PERC product ensures a higher level of ESD design rule compliance because it goes beyond traditional layout geometry-based checking to enable verification of specific device and interconnect structures and electrical characteristics. It can be used to detect electrical rule violations independent of logical design, for example, identifying the omission of required ESD protection on a schematic or netlist. It can also be used to look for errant signal paths and other soft connection errors such as well connection errors, floating devices, nets, or pins, incorrect voltage supply connections, excessive series pass gates, problem level shifter designs, antenna checks, floating wells, minimum “hot” NWELL width, and many others.

“Increasingly, customers are asking for a solution to determine if their designs are susceptible to electrical failure due to ESD events, and to perform electrical design rule checking in a multi-voltage, mixed-signal environment,” said Joseph Sawicki, vice president and general manager for the Design-to-Silicon division at Mentor Graphics. “The Calibre platform continues to show its versatility as we extend it to address these types of emerging complex circuit verification challenges.”

### **Price and Availability**

Calibre PERC is available worldwide. Pricing starts at \$195K.

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## ***Phoenix Mission Accomplished With ANSYS Aboard***

12 January 2010

[ANSYS, Inc.](#) announced that the University of Alberta used software from ANSYS to aid in interpreting weather data received from the Phoenix Mars lander. In creating a virtual environment of the planet's unique atmospheric conditions, scientists discovered that heat and radiation from the lander itself could affect daily readings, such as atmospheric pressure, wind velocity and temperature. ANSYS® software helped scientists interpret the data transmitted from the Phoenix to Earth — with rapid turnaround while the mission was in progress — to identify the effects of the lander itself.

The Phoenix spacecraft landed on Mars in May 2008 and, for the next five months, fed back a steady stream of data to Earth. Well before the launch, a team of Canadian scientists at the University of Alberta helped in the development of the lander's meteorological station (MET). MET was designed to collect measurements that would complement other data critical to the mission. Design and calibration experiments were difficult and expensive to perform, so the university turned to virtual testing with fluid dynamics software from ANSYS. While exploring the anticipated Martian environment, scientists discovered that, under certain wind conditions, heat emitted from the lander could cause a temperature sensor to show higher-than-atmospheric values. "With space missions, there is only one shot at getting it right. Any minor flaw could result in the instantaneous loss of years of preparation and hundreds of millions of dollars," said Carlos Lange, associate professor of mechanical engineering at the University of Alberta. "Using simulation software from ANSYS, we learned that the internal heat generation and emission of radiation from the lander's surface could increase temperature measurements. Similarly, obstacles upstream from velocity and pressure sensors could alter readings of wind magnitude and/or direction." Therefore, Lange and his colleagues calibrated the instruments through a large parametric study. After the lander touched down on Mars, the university team used the results of such simulations to evaluate the raw mission data and find instances when these wind directions occurred. This process was key to preventing misinterpretation of the data by the Phoenix scientific team.

Simulation turnaround time was a concern to the team as well. During the mission, limited time and power resources were allocated daily to the operation of specific instruments. "To make decisions about the prioritization of data collection, strategic planners sometimes required input based on the results of the simulations. So we needed to quickly simulate new cases," Lange said. This short time-response requirement was met by employing the high-performance computing capabilities of ANSYS software, running the simulations in parallel on a cluster to achieve, at times, super-linear speedup (speedup greater than an amount proportional to the number of processors used). The efficiency of high-performance computing capabilities and multi-core hardware together enabled new simulations to be completed within the timeframe required for decision making. The overall success of the University of Alberta's work has allowed for additional simulations to be performed to aid in the explanation of certain phenomena found in the raw data.

### **About the University of Alberta**

For more information visit <http://www.ualberta.ca> and <http://www.isset.ualberta.ca>.

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## ***PTC Windchill Software to Enable Leading Medical Device Manufacturer to Advance Global***

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## ***Product Design Strategies***

12 January 2010

PTC announced that GE Healthcare, a unit of General Electric Company, has selected [Windchill, PTC's PLM software](#), and Pro/ENGINEER to replace its legacy data management and MCAD software. PTC's solutions will support GE Healthcare in achieving their product development goals.

PTC's Product Lifecycle Management (PLM) software delivers critical content and process management capabilities that support demanding regulatory requirements, such as electronic records and signatures, document control and change control, and auditing.

GE Healthcare is using Windchill® for product lifecycle management, Pro/ENGINEER® for mechanical CAD/CAM/CAE, and Arbortext® for product information delivery. The new product development environment will enable better control of critical product information, design reuse, global collaboration and uniform design processes across different product lines.

“GE wants to change the way healthcare is delivered. To do that, we need to change the way healthcare products are developed. We expect PTC's software solutions will help us develop innovative products, with the goal being to reduce cost and increase ease of use,” said Reaz Rasul, general manager of lean global product development, GE Healthcare. “We're working with PTC, because of their leading software solutions, their technical expertise and their capability and commitment to execute against product development initiatives.”

“PTC's success in the medical device industry reflects our commitment to working with customers such as [GE Healthcare](#) to understand and meet unique business requirements,” said James E. Heppelmann, president and chief operating officer, PTC. “PTC PLM software enables device manufacturers to optimize product development processes and deliver high quality, innovative products to market faster than before.”

Today, eight of the world's top ten medical device manufacturers rely on PTC for their product solutions.

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## ***SolidWorks Helps Maesa Studio Create Elegant, Cost-Effective Packaging For Top Cosmetic Brands***

12 January 2010

The firm that designs packaging for top cosmetic brands like Estee Lauder and Victoria's Secret uses [SolidWorks](#)® 3D CAD software to produce designs that display its clients' products elegantly and creatively while keeping costs in line.

SolidWorks enables design and production engineers at Los Angeles-based [Maesa Studio](#) to collaborate throughout the design process to strike the essential balance between cost limits and innovative designs that sell products. Although cleverly designed bottles, containers, and packaging are crucial to clients' images and product sales, Maesa Studio's Executive Vice President of Product Development Sean Brosmith said price has the final word.

“Our customers are very price sensitive because they make money in volume sales, so they need to hold down unit cost,” Brosmith said. “We could spend all day designing the most beautiful packaging possible, but if it costs 30 percent more than the client's budget we're not doing them any service. SolidWorks helps us from the very earliest creative and industrial design phases. When creative has a

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design they're working up, they can quickly throw it over to production engineering for price referencing, to check the weight – anything that might affect cost.”

Maesa Studio, a division of Maesa Group, designs and produces paper, plastic, glass and metal packaging between facilities in the U.S., Asia, and Europe. Among its clients are international brands like Crabtree & Evelyn, L’Oreal, Bath & Body Works, and celebrities like rapper 50 Cent who launch their own product lines. Maesa Studio’s design engineers translate sketches of new containers, boxes, and displays into SolidWorks 3D models. They use the models to present concepts to clients, refine them based on the clients’ responses, then put them into production. Maesa Studio’s ability to present clients with creative, cost-effective concepts is a huge competitive advantage.

“SolidWorks is a multi-purpose tool that allows us to explore 3D concepts creatively and present conceptual designs to our clients knowing that we have CAD data ready to be passed to the engineering/production teams. That makes the interaction between our creative industrial design and engineering teams incredibly streamlined,” Brosmith said. “Our costing teams in New York and Asia use the SolidWorks data industrial designers generate to get a head start on the costing process. Through early evaluation of our designs, we can be sure items stay on budget and allow the production team to make recommendations on how to lower part costs in manufacturing, all before final engineering.”

A wide range of consumer products, from snowboards, to mountain bikes, to children’s toys, to furniture, are designed in SolidWorks by companies that want performance and cost effectiveness without sacrificing aesthetics. SolidWorks provides modeling and analysis tools that enable designers to optimize their designs throughout the product development process, balancing practicality and creativity.

“Maesa Studio is using our software to manage costs the way they should be managed. Not as a curb on creativity, but as a reality that has to be considered throughout the creative process,” said DS SolidWorks Vice President of Marketing Christine Washburn. “From design to internal and client communication, Maesa Studio is proving the value of SolidWorks.”

Maesa relies on authorized SolidWorks reseller [GoEngineer for Solid Works](#) for ongoing software training, implementation, and support.

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## ***Terrafugia Uses Dassault Systemes to Create Street-Legal Airplane***

12 January 2010

Dassault Systèmes ([DS](#)) announced that its [CATIA](#) brand has been chosen by Terrafugia, creators of the revolutionary [Transition® Roadable Aircraft](#), for 3D composite and finite-element modeling. Terrafugia will use CATIA Analysis and CATIA Composites Design (CPD) solutions to design and develop its beta prototype, with delivery expected in 2011.

After Terrafugia completed a successful Proof of Concept for the first version of its Transition Roadable Aircraft in early June, the design team began planning the vehicle’s second iteration. Having spent several years developing the initial Transition prototype, Terrafugia identified multiple ways in which they wanted to adjust the original design, including experimenting with alternate materials and sizing for the wings. In order to analyze the way different materials would bend or move under various conditions, the company required a solution with advanced 3D composite ply-modeling, dedicated part-modeling and material behavior simulation capabilities.

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RAND North America, a value-added reseller of Dassault Systèmes PLM solutions and 2007 Dassault Systèmes North American Business Partner of the Year, recommended that Terrafugia adopt CATIA for its composite modeling needs. RAND chose CATIA's composite solutions for their exacting technical features, which would help Terrafugia correct problems like wrinkles and bridges in the very first stages of design by visualizing ply characteristics and fiber behavior. They also emphasized CATIA's value as an independent finite-element analysis (FEA) tool, thereby eliminating the need for a separate FEA investment.

Impressed by its success with Dassault Systemes' SolidWorks 3D design suite, which it began using in March 2009, Terrafugia adopted CATIA Analysis and CATIA CPD as composite-focused complements to its existing SolidWorks infrastructure. According to Ben Zelnick, engineer at Terrafugia: "CATIA is a great complement to our SolidWorks solution. Being able to have a full digital model of a ply-by-ply layout will allow us to conduct accurate structural analyses, which is invaluable in reducing the weight of the Transition. In fact, we recently correlated an analysis of a CATIA model of a portion of the structure closely to a sample tested in our facility."

Jacques Leveillé-Nizerolle, CEO, CATIA, Dassault Systèmes added: "We are pleased that DS SolidWorks' design-centric customers can now benefit from CATIA's leading composites virtual design and analysis applications to successfully meet their composites needs. This will complement CATIA's full PLM strategy which is based on delivering a complete end-to-end PLM composites solution on a single platform, from design to simulation and manufacturing."

For the upcoming second prototype, Terrafugia's design team is using CATIA Analysis to create preliminary design simulations rapidly, easily and within a familiar CAD environment. The solution allows the team to optimize its designs based on product performance specifications and to make updates after real-world testing. Moreover, the company is using CATIA CPD to build and test reinforcement spars on the prototype's structural panels. CATIA CPD gives Terrafugia the ability to verify whether it can feasibly produce what is designed and the ability to perform simulation directly in the same environment.

The collaboration between Dassault Systèmes and RAND North America is representative of a long-standing, strong and active association between the two companies. Kendall Pond, vice president, Dassault Systèmes and liaison for its partnership with Terrafugia, discussed the role of RAND in bringing the CATIA deployment to fruition: "RAND has done a great job of getting Terrafugia up to speed on how to use CATIA very quickly and efficiently. RAND has been integral in helping us build a true relationship with Terrafugia."

The Transition Roadable Aircraft can cruise up to 450 miles at 115+ mph, take off and land at local airports, drive at highway speeds on any road and fit in a normal suburban garage space. The two-seat vehicle has front wheel drive on the road and a propeller for flight, transforming from plane to car in thirty seconds. Both modes are powered by unleaded automobile gasoline. By giving pilots a convenient ground transportation option, the Transition reduces the cost, inconvenience and weather sensitivity of personal aviation.

For more information, images and videos of the "street-legal airplane," please visit: [http://www.terrafugia.com/news\\_media.html](http://www.terrafugia.com/news_media.html).

## **About Terrafugia**

Terrafugia was founded in 2006 by MIT-trained aeronautical engineers and MBA's – who also happen to be passionate private pilots. The company's mission is to provide innovative solutions to the

challenges facing personal aviation. The result: the Transition® Roadable Aircraft. Taking advantage of new FAA regulations in the Light Sport Aircraft category, Terrafugia developed the Transition® to provide pilots the convenience of a dual-purpose vehicle. Its unique design allows the Transition® to fold its wings and drive on any surface road with a modern personal airplane platform. Once at the airport, the wings extend and the aircraft is ready for take-off. Both folding and extending the wings is done from inside the cockpit. The Transition® addresses head-on the issues private and sports pilots face: cost, weather sensitivity, high overall door-to-door travel time and a lack of mobility at destination. In July of 2008 Terrafugia returned to EAA AirVenture in Oshkosh, WI with a completed Proof of Concept Transition® vehicle. Powered testing of the Proof of Concept has been ongoing during the second half of 2008. Construction, testing and certification of the Production Prototype will follow completion of the Proof of Concept's testing program. First customer delivery of a Transition® Roadable Aircraft is expected to occur in 2011. To date, Terrafugia remains privately funded by a sophisticated group of accredited individual investors. The company is based just outside of Boston in Woburn, Massachusetts, USA.

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## ***Transtec Gotthard opts for CONTACT Project Management***

12 January 2010

Transtec Gotthard (TTG) is a consortium of in their fields leading enterprises Alcatel-Lucent/Thales, Alpine-Bau, Alpiq and Balfour Beatty Rail. These partners are prime contractors for the railroad technology of the new Gotthard Base Tunnel in Switzerland and have decided to employ CONTACT's Project Management Solution CIM DATABASE PCS to monitor their operations. The software is expected to contribute to the timely fulfilment of this ambitious engineering task at the agreed deadline 2017. Accordingly, a "Project Cockpit" has been installed for the head project monitoring unit within TTG, to support responsible bodies in their monitoring and controlling functions. The encompassing reporting facilities of the new system is expected to deliver an on-line reconciliation of all planned or currently on-going job segments and also services as a reliable database for reporting to the contractor, AlpTransit Gotthard AG (ATG).

ATG, a 100% subsidiary of the Swiss Federal Railways (SBB), now implements the vision of a trans-alpine low incline link, which will result in substantially improved transport and travel opportunities within the heartland of Europe. The Gotthard Base Tunnel is a key element of this new concept and, with its 57 km, can then claim to be the longest commercial traffic tunnel world-wide. All railroad technology is supplied by TTG, whereby the individual contractors are required to contribute their individual know-how regarding track technology, catenary, tunnel monitoring, tunnel security, power supply, telecommunications, logistics as well as planning and controlling.

This ambitious project is lastly structured via a multitude of highly complex set of job components which each resort to individual, encompassing job requirements in which detailed demands regarding specifications such as who, when and at which price must perform, are precisely delineated. With CONTACT's Project Management Solution it is now possible to scrutinize such job-assignments and other project items according to differing criteria; to filter, evaluate and display their aggregate situation. Furthermore, it is possible to document and monitor deviations. These flexible structuring and reporting functions were lastly decisive for the TTG consortium's option for CONTACT: „With CIM DATABASE PCS we perceive a tool that enables us to both depict and control a project of this scale with its manifold facets“, reasons Lars Dietrich, who, as Head of Technology, also answers to the

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smooth operation of the overall project. “And with CONTACT we have a technology partner who has convinced us by his overall project know how“.

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## ***VISTAGY Confirms Position as the Composites Engineering Software Leader in the Chinese Aerospace Market; Nine Firms Leverage VISTAGY’s FiberSIM® Software and Aerospace Expertise***

12 January 2010

[VISTAGY, Inc.](#) announced that its [FiberSIM®](#) composites engineering software continues to be adopted as the product of choice by the Chinese aircraft industry. Recent sales expand the use of FiberSIM by established customers, such as the Beijing Aeronautical Manufacturing and Technology Institute, Beijing Institute of Aeronautical Materials, Harbin Aircraft Industry Group Corporation, Shanghai Aircraft Design and Research Institute and Xian Aircraft Corporation, as well as by significant new customers, including Chengdu Aircraft Design and Research Institute, Shenyang Liming Aero-Engine, Shenyang Aircraft Design Institute and the Changhe Aircraft Industry Group.

VISTAGY has been at the forefront of composites engineering in the aerospace industry since the company’s founding in 1991. The Chinese firms recognized and benefited from that expertise since adopting FiberSIM in 2002.

As China embarks on its flight into the global commercial aircraft industry with programs such as their ARJ-21 and the COMAC C919, FiberSIM will enable companies to efficiently design composite parts that exploit the benefits of the latest manufacturing processes and materials, leading to improved product performance and reliability while reducing development time and manufacturing cost. One of the ways FiberSIM accomplishes this is by enabling firms to automate non-value added tasks so they can achieve productivity gains and can spend more time focusing on high-value engineering tasks.

“Our Chinese customers are at the forefront of one the fastest growing aerospace markets in the world,” said Mamoru Iguchi, general manager of Asia Pacific for VISTAGY. “We have been working with them for nearly a decade and are pleased to see the success that they have achieved. FiberSIM plays a key role in propelling Chinese aircraft manufacturers to be competitive players in the global commercial airliner market. It’s truly exciting to see the innovation and be a part of the dynamic Chinese aerospace market.”

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## Industry-Wide News

### ***EDA Consortium Reports Industry Revenue Down in Third Quarter 2009***

14 January 2010

The EDA Consortium (EDAC) Market Statistics Service (MSS) announced that the Electronic Design Automation (EDA) industry revenue for Q3 2009 is \$1,167.9 million, a 3.8 percent sequential increase from Q2. On a Q3/Q3 basis, EDA industry revenue declined 7.2 percent, compared to \$1,258.6 million in Q3 2008. The four-quarter moving average declined 13.1 percent.

“Just as the semiconductor industry has experienced sequential growth, the EDAC revenue numbers similarly represent a sequential increase over the previous quarter,” said Wally Rhines, EDAC chair and chairman and CEO of Mentor Graphics. “Most notable sequential increases were in the categories of

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printed circuit board, semiconductor IP, and services.”

Companies that were tracked employed 25,942 professionals in Q3 2009, down 7.9 percent from the 28,176 employed in Q3 2008, and down 1.4 percent from the 26,298 employed in Q2 2009.

## Revenue by Product Category

Computer Aided Engineering (CAE), EDA’s largest category, generated revenue of \$450.1 million in Q3 2009. This represents a 3.3 percent decrease over the same period in 2008. The four-quarter moving average for CAE declined 15.6 percent.

In the next largest category, IC Physical Design & Verification, revenue decreased to \$260.8 million in Q3 2009, a 10.0 percent decrease compared to Q3 2008. The four-quarter moving average declined 16.9 percent for IC Physical Design & Verification.

Printed Circuit Board and Multi-Chip Module (PCB & MCM) revenue increased 1.5 percent compared to Q3 2008, to \$132.9 million. The four-quarter moving average for PCB & MCM decreased 10.6 percent.

Semiconductor Intellectual Property (SIP) revenue totaled \$240.7 million in Q3 2009, a 10.1 percent decrease compared to Q3 2008. The four-quarter moving average for SIP decreased 8.0 percent.

Services revenue was \$83.5 million in Q3 2009, a decrease of 20.3 percent compared to Q3 2008. The four-quarter moving average for services decreased 4.0 percent.

## Revenue by Consuming Region

The Americas, EDA’s largest region, purchased \$511.2 million of EDA products and services in Q3 2009, representing an 8.0 percent decrease compared to Q3 2008. The four-quarter moving average was down 14.1 percent for the region.

Revenue in Europe, the Middle East, and Africa (EMEA) was down 17.6 percent in Q3 2009 compared to Q3 2008 on revenues of \$204.0 million. The four-quarter moving average for EMEA was down 15.4 percent.

Q3 2009 revenue from Japan decreased 2.3 percent to \$248.9 million compared to Q3 2008. The four-quarter moving average for Japan decreased 15.1 percent.

The Asia/Pacific (APAC) region increased to \$203.8 million in Q3 2009, a 1.6 percent increase compared to the same quarter in 2008. The four-quarter moving average declined 4.7 percent.

## About the MSS Report

The EDA Consortium Market Statistics Service reports EDA industry revenue data quarterly and is available by annual subscription. Both public and private companies contribute data to the report. Each quarterly report is published approximately three months after quarter close. MSS report data is segmented as follows: revenue type (product licenses and maintenance, services, and SIP), application (CAE, PCB/MCM Layout, and IC Physical Design and Verification), and region (the Americas, Europe Middle East and Africa, Japan, and Asia Pacific), with many subcategories of detail provided. The report also tracks total employment of the reporting companies.

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## *WorkPLAN Enterprise Delivers Transparency and Efficiency at TriWeFo*

12 January 2010

**TriWeFo GmbH** based in Helmsdorf, Germany, installed SESCOI's ERP system **WorkPLAN Enterprise** to enable it to achieve complete transparency in its moldmaking activities. Implemented in 2008 to replace an existing production planning system, **WorkPLAN Enterprise** impressed the company with its ease of use and the way in which it is tailored to suit project based manufacturing, and in particular mold manufacture. Thomas-A Dargel, Manager at TriWeFo says, "*WorkPLAN Enterprise has enabled us to simulate our company, product structure and way of working, even down to the specific terminology we use. Our employees have found this to be very helpful when using the system, enabling them to become familiar with it straight away.*"

Part of the Tridelta GmbH group, TriWeFo employs around 80 people and manufactures injection molds up to 7.5 tonnes. In addition, it specialises in sintering press tools for ceramics and hard metals, producing tools, prototypes and small batches of components for end users and other companies within Tridelta. Its previous manual data collection and management methods were time consuming and prone to error as they relied on the transfer of information from job cards. WorkPLAN Enterprise overcomes this by allocating a unique number to each mold, which it retains for its whole life from conception to modification and repair, making it a simple process to have an overview of its complete history. Felix Hübschmann, Project Manager says, "*The software allows us to track the complete mold, specific groups of components or individual parts. Barcodes give us immediate feedback on the status of manufacture, enabling us to be certain that critical parts are running to schedule.*"

The company uses the full range of functions available in WorkPLAN Enterprise, and has 15 seats of the software, which can all operate concurrently. The modules include quotation preparation, purchasing, manufacturing management, invoicing and reporting. Thomas-A Dargel adds, "*Each user can customize how information is presented, so managers, technicians, sales staff and accountants can each view the data relevant to them, streamlining their tasks and making the whole manufacturing process completely transparent. Other software packages we evaluated could not give us the same range of capabilities, nor were they suitable for mold manufacture.*"

The way in which WorkPLAN Enterprise stores information and tracks the complete lifecycle of a tool has several advantages. Customers are guaranteed full traceability, as every aspect of the tool's history is stored in one place. For quotations for new molds, the system is able to draw on the recorded information to find similar criteria within previously manufactured tools. This information enables TriWeFo to anticipate problems and use its experience to arrive at the correct costing information. Once production has started, continual feedback of component prices and manufacturing times enable the company to keep a tight rein on its costs and, as a result, maximize its profitability.

The WorkPLAN Enterprise solution has a modular structure, so it can be tailored to the needs of individual companies, automating key areas of business management. Furthermore, it includes specific functions which have been developed for the tool and moldmaking industry. The complete lifecycle of a project or tool can be seen at a glance, enabling multiple modifications and repairs to be easily tracked. Customized reports summarize the information stored within the system allowing managers to check the real time status of crucial business drivers. Having this information available makes it possible for corrective action to be taken straight away, when a problem is detected, and for the company to make decisions about investment and direction based on accurate data.

Installing WorkPLAN Enterprise will positively impact on the performance of TriWeFo. Thomas-A

Dargel explains, “Every tool manufacturer needs an ERP package. Customers are very demanding now, and there is a continual battle with competitors to get new business and retain clients. To remain leaders in our field we need to be able to deliver precise quotations, have an optimized manufacturing process with high quality standards, and the capacity to meet any new requirements our customers place upon us. WorkPLAN Enterprise helps us achieve these goals by improving manufacturing transparency throughout the company.”

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## Product News

### ***Altair and Summitech Develop New Methodology for Vehicle Chassis System Development***

14 January 2010

Altair Engineering, Inc. announced that Altair ProductDesign has collaborated with Summitech Engineering, a subsidiary of Tempo Group, to develop an efficient method for creating correlated passenger car multi-body dynamics (MBD) models without requiring OEM information. The process employs a combination of computer simulation and physical testing performed at Altair’s Troy, Mich. world headquarters and Summitech’s, Detroit Technical Center in Canton, Mich.

Summitech partnered with Altair ProductDesign for its broad expertise in chassis development, including subjective vehicle evaluations, objective lab and proving ground measurement, target setting, MBD model creation and correlation, CAE driven design and vehicle development. The goal of this initial engagement was to establish a repeatable process, without requiring OEM and supplier data and resources, that allows a deeper understanding of benchmark vehicles and determination of baseline performances to employ simulation-driven design methods.

“We are delighted with the methodology this partnership has produced,” said Dr Hong Su, Engineering Director Summitech Engineering. “Using a combination of Summitech facilities, Altair MotionSolve software, and the experiences of both organizations, we have successfully created correlated vehicle dynamics models of two very different vehicles. These models will be central to the optimal design of future vehicle components.”

Tony Norton, Land Vehicles Practice Leader at Altair ProductDesign, stated “The model building process starts with key benchmark data and judicious population of half car models. After a comparison with kinematics and compliance test results, full vehicle models are assembled. The process has provided great correlation with the proving grounds data measured by our team.”

#### **About Altair ProductDesign**

Altair ProductDesign is a global, multi-disciplinary product development consultancy of more than 500 designers, engineers, scientists, and creative thinkers. As a wholly owned subsidiary of Altair Engineering, Inc. ([www.altair.com](http://www.altair.com)), this cross-functional organization is for its leadership in simulation driven innovation. Altair ProductDesign firmly advocates a user-centered, team-based design approach and uses proprietary simulation and optimization technologies to help clients bring innovative, profitable products to market faster. To learn more, please visit [www.altairproductdesign.com](http://www.altairproductdesign.com).

#### **About Summitech Engineering**

Summitech Engineering, Inc. is the North American engineering base for the Tempo Group. Tempo is a

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conglomerate of vehicle and auto part manufacturing entities founded during the 1980's in China. Summitech's mission is to develop automotive chassis systems and components for clients, either in China or the rest of the world. Summitech supports Tempo's sales to the OEM's or Tier-1's with engineering services, and its capabilities span the entire product life cycle. To learn more, please visit [www.summitechinc.com](http://www.summitechinc.com).

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## ***Autodesk Selects FM:Systems to Partner on Building Information Modeling and Facility Management***

14 January 2010

[Autodesk, Inc.](#) and [FM:Systems](#), a leading provider of integrated workplace management systems (IWMS) and computer-aided facility management (CAFM) software, have joined together to ensure continued customer support for Autodesk FMDesktop software users. Autodesk will transition Autodesk FMDesktop customer support to FM:Systems. Under the terms of the agreement FM:Systems will provide Autodesk FMDesktop customers with extended support as well as an option to migrate to the firm's FM:Interact Workplace Management Suite. In addition, FM:Systems has joined the Autodesk [Preferred Industry Partner Program](#), a program that recognizes select third-party software developers for their innovative, industry-focused solutions.

“As a long-time member of the [Autodesk Developer Network](#), FM:Systems was the natural choice to help us extend the value of BIM into the facilities management arena, and to provide our customers with continued support,” said Jim Lynch, vice president of Autodesk BIM Product Line Group. “Contractors and building owners are telling us that they want to take advantage of the valuable data in BIM for facilities management. We are excited to partner with FM:Systems to deliver this value.”

Building upon a shared goal to bring the benefits of [BIM](#) to the operations phases of a building's lifecycle, the two companies will now work together to integrate BIM data from Autodesk software products, such as [Autodesk Revit Architecture](#), with FM:Systems' facilities software to support enhanced building operation and maintenance.

The FM:Interact Workplace Management Suite offers an integrated set of web-based workplace management products designed to assist facilities and real estate professionals improve planning, manage performance and streamline processes. FM:Interact provides the space management, occupancy management and facility maintenance offered by Autodesk FMDesktop, and offers additional capabilities such as real estate portfolio management, lease administration, project management, move management and strategic planning.

“We are committed to supporting Autodesk FMDesktop customers,” said Michael Schley, IFMA Fellow and CEO, FM:Systems. “With a 93 percent customer satisfaction track record for our support desk team, and products that make the most of design and construction data, we're confident Autodesk FMDesktop users will find FM:Systems a great resource for their immediate and long-term needs.”

“FM:Systems' focus on customer success has always impressed the facilities team at The MathWorks,” said Bob Donahue, facilities planning manager of The MathWorks. “The initial roll out of our system was surprisingly fast, technical support has been excellent, and we appreciate having a voice in the ongoing direction of the products.”

## **FM:Systems as an Autodesk Preferred Industry Partner**

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Under the program, FM:Systems will work with Autodesk to create applications that complement Autodesk 3D products, such as the Autodesk Building Information Modeling (BIM) portfolio of products, and help customers simulate their ideas early in the design process as well as reduce time and cost in manufacturing or construction. Autodesk works closely with Preferred Industry Partners on a range of marketing and sales activities, and program participants may also receive other benefits, including early access to alpha and beta versions of Autodesk software, priority service support and feature requests, and access to additional co-marketing resources.

Existing Autodesk FMDesktop customers will be contacted by FM:Systems sales representatives during the next 30 days to discuss their extended support and/or migration options. A special website at [www.fmsystems.com/fmdesktop](http://www.fmsystems.com/fmdesktop) has been established to provide Autodesk FMDesktop users with information and FM:Systems contact referrals. Existing customers may also call 1-800-648-8030 for immediate assistance.

## **About FM:Systems**

FM:Systems Web-based software improves management of space, occupancy, moves, maintenance, leases and property. Customer results include: real-estate costs reduced by 15 percent, move spend reduced by 83 percent, enterprise productivity savings of \$1.5 million and an internal customer satisfaction rate of 97 percent.

Many of the world's leading organizations rely on FM:Systems products, including CA, Devon Energy, Freddie Mac, GMAC Financial Services, Herman Miller, Indiana University, Lockheed Martin, NASD, Northwestern University, Novartis Pharmaceuticals, Progress Energy, Target stores and Wyeth Pharmaceuticals.

FM:Systems is headquartered in Raleigh, North Carolina, and conducts business in the Americas, Europe and Asia Pacific.

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## ***AVEVA Releases Finite Element Analysis Interface for Shipbuilders***

11 January 2010

AVEVA announced the release of AVEVA Hull Finite Element Modeller, a powerful new addition to the AVEVA Marine portfolio which accelerates and simplifies the stress analysis of ship structures.

Ship designers rely on the use of Finite Element Analysis (FEA) to ensure that hull structures comply with rigorous strength criteria and achieve low levels of vibration for maximum passenger comfort. FEA is a computational technique for stress and vibration analysis which entails the idealisation of a physical structure as a mesh of a very large number of small elements.

Although the analysis itself is a relatively rapid process, translating a vessel's hull structure into an idealised mesh in such a way as to achieve accurate and reliable analysis has long been a laborious and time-consuming process, which is normally repeated several times as the design evolves. Finally, it is common to include a detailed FEA in an approval submission to a classification society such as Lloyds Register or Bureau Veritas, in order to better demonstrate a vessel design's structural soundness.

Shipbuilding has now become such a rapid process that the FEA cycle itself can be the critical-path activity. Timescale pressures frequently require a shipyard to begin steel cutting before final design approval has been received, so a design change requirement from the classification society can result in

costly construction rework.

AVEVA Hull Finite Element Modeller has been developed in collaboration with leading shipbuilders to overcome these problems. It applies sophisticated, rule-based methods to ensure the rapid idealisation of structures created in AVEVA Hull Structural Design, to faithfully represent the essential characteristics of the physical design while ensuring accurate and computationally-efficient analysis in third-party FEA programs.

Commenting on this important new release, Stéphane Neuvéglise, AVEVA's Product Marketing Manager for AVEVA Marine, said: 'This product meets a widespread demand in the shipbuilding industry, which must meet stringent international regulations while faced with severe competitive pressure to achieve ever lower costs and shorter delivery times.'

'AVEVA engineers have worked closely with our collaboration partners to develop an extremely powerful and easy-to-use application which is already meeting or exceeding expectations on a number of different projects. Users have consistently reported achieving 30-50% reduction in direct man-hours for FEA, as well as valuable gains in design quality, timescale and avoidance of construction rework.'

AVEVA Hull Finite Element Modeller is available for immediate deployment in an AVEVA Marine environment and may be used effectively on all types of commercial or naval vessel designs, or other floating structures.

## **About AVEVA Hull Finite Element Modeller**

It is used with AVEVA Hull Structural Design and exports idealised meshes either in ANSYS® APDL format, or in neutral XML format for other third-party FEA programs. It combines rule-based 'intelligent' idealisation with extensively user-configurable parameters for the rapid creation of high-quality meshes. Hull structures may be idealised in their entirety or as selected blocks, with coarse or fine meshes, enabling rapid analysis in the early design stages and more detailed analysis of highly-stressed local areas as the design progresses.

More information about Hull Finite Element Modeller and other AVEVA Marine solutions may be found at <http://www.aveva.com/marine>.

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## ***AVEVA Releases Powerful New 3D Design Transfer Solution***

11 January 2010

AVEVA (announced the release of AVEVA Mechanical Equipment Interface, a powerful solution to the problem of transferring 3D models between incompatible design systems.

Until now, solutions for transferring design between different 3D CAD systems have proved to be inadequate in various ways and have not achieved the necessary high levels of usability or industry support. Recently, however, a neutral format has been adopted - STEP AP203 - which does offer an effective means of 3D design transfer and is now achieving widespread industry acceptance. AVEVA Mechanical Equipment Interface has been developed to employ the AP203 protocol and provides a plant or ship designer with an efficient tool for importing into AVEVA PDMS or AVEVA Outfitting accurate 3D models of suppliers' equipment items.

Commenting on this important new release, Bruce Douglas, AVEVA Vice President Product and Marketing Strategy, said:

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'The inability to easily share data between computer systems has long been a barrier to exploiting the full value of engineering information and to effective collaboration on complex projects. AVEVA is committed to the removal of such barriers and plays a leading role in the development, promotion and use of open standards for data interoperability.

'AVEVA Mechanical Equipment Interface is further confirmation of this continuing commitment and our equal commitment to providing customers with ever-increasing value from their use of AVEVA solutions. This new product will make the practising designer's work a lot easier and provide measurable business benefits in project cost, timescale and quality.'

A number of customers, in the marine, power and mining industries, worked closely with AVEVA during the development of this new product and have already reported up to 60% reduction in man-hours compared with their previous practice of re-creating equipment models from scratch in AVEVA PDMS.

AVEVA Mechanical Equipment Interface is available for immediate deployment in an AVEVA Plant or AVEVA Marine environment, and is appropriate for the Power, Marine, Mining, Mineral Processing, Pulp and Paper, Pharmaceutical Manufacturing sectors.

## **About AVEVA Mechanical Equipment Interface**

Equipment suppliers can export 3D models from the principal MCAD systems in STEP AP203 format. Using AVEVA Mechanical Equipment Interface, a designer can import these fully-detailed models into AVEVA PDMS or AVEVA Outfitting, where they can be manipulated like any native PDMS or Outfitting objects. This avoids the need for laborious and error-prone workarounds, such as manually re-creating an equipment model in PDMS/Outfitting. Now the full design value already created by the equipment supplier can be exploited by the PDMS/Outfitting designer to create better-quality plant or vessel designs more quickly.

AVEVA Mechanical Equipment Interface provides facilities for simplifying the display of an imported model for more efficient working while creating the overall design, and for exporting selected parts of a PDMS or Outfitting model to third-party 3D design applications which support AP203 import.

More information about AVEVA Mechanical Equipment Interface and other AVEVA solutions can be found at <http://www.aveva.com/plant> or <http://www.aveva.com/marine>.

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## ***Dassault Systèmes Introduces 3DVIA Composer V6R2010x***

13 January 2010

Dassault Systèmes (DS) announced the availability of [3DVIA Composer V6R2010x](#). Significant enhancements in this release further support Dassault Systèmes' V6 strategy to enable on-line 3D collaboration to all users within an enterprise, while introducing other features including an improved user experience and enhanced technical illustration capabilities.

With its easy-to-use desktop content-creation system, 3DVIA Composer leverages CAD data to automate the creation of assembly and disassembly procedures, technical illustrations, interactive 3D animations, training materials, marketing materials and sales tools. Further extending its ability to unlock potential for traditional 2D publications, the new features allow professionals and non-experts to generate advanced technical illustrations that do not require time-consuming, manual adjustments and

revisions.

“Companies everywhere are trying to do more with less, and 3DVIA Composer is an innovative product that helps manufacturers of all sizes create efficiencies that are clear and tangible,” said Lynne Wilson, CEO of 3DVIA, Dassault Systèmes. “New functionalities in this re-lease enhance the creation and distribution of lifelike product experiences across an organization, putting power in the hands of non-CAD users and extending the promise of PLM 2.0 on the V6 platform.”

3DVIA Composer V6R2010x enhancements include:

## **Lifelike Experience**

**Enhanced technical illustration capabilities:** The new “Paper Space” feature provides a What You See Is What You Get capability, transforming the 3DVIA Composer display into a preview of the final document layout. This will ensure the consistent layout and delivery of your content regardless of user display resolutions for 3D documentation or specified paper sizes for 2D published illustrations.

**Enhanced and simplified user experience:** The intuitive and easy-to-learn Rib-bon interface provides the option of organizing commonly used and advanced functions in a logical way that allows users of all experience levels to become more productive and proficient in 3DVIA Composer. Products, parts, geometries and internal nodes are now displayed with different icons to increase ease of use. Experiences can be published directly from Composer to 3DVIA.com.

**Support for CATIA FT&A cross-highlighting:** For companies using 3D as the master source of information, enhanced support CATIA V5 Feature, Tolerancing and Annotation (FT&A) data now includes cross-highlighting capabilities. By providing interactive FT&A that highlight the related surfaces for an operation, 3DVIA Composer and 3DVIA Composer Player Pro will ensure that the engineering intent is effectively communicated and understood by downstream users.

## **Online Creation and Collaboration**

**Direct publishing to 3DVIA.com:** 3DVIA Composer content can be directly published to 3DVIA.com as standard 3D content or fully interactive 3D documents. This information can then be shared with the large community of 3DVIA.com users. In addition, 3DVIA Composer offers effective functionality to help pre-prepare models for sharing on the 3DVIA Mobile app for iPhone and iPod Touch.

## **Lower Cost of Ownership**

**Interoperability plug-in:** The ability to expand the number of 3D formats supported by 3DVIA Composer through a new framework, that enables high-quality, externally developed importer products to be plugged directly into 3DVIA Composer and 3DVIA Sync. This enhancement automatically adds new native 3D import options directly into the user interface, providing a seamless and intuitive end-user experience.

**CATIA V5 Piping Design:** Meta properties defined in piping design of CATIA V5 are now supported, allowing important information such as nominal size, to be associatively displayed into 3DVIA **Composer labels and BOM tables.**

“We are delighted to contribute new interoperability capabilities to this latest release of 3DVIA Composer.” said Trevor Leeson, Product Manager at [Theorem Solutions](#). “The integration of Theorem’s JT CADverter technology makes the benefits of 3DVIA Composer V6R2010x available to a whole new community of users.”

For more information on the new features and functionality of 3DVIA Composer V6R2010x, visit:

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<http://www.3dviacomposer.com/v6r2010x>

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## ***ESI Announces the Release of Visual-Environment 5.5***

14 January 2010

[ESI Group](#) announced the latest release of [Visual-Environment](#) 5.5, integrated suite of collaborative solutions.

[Visual-Environment](#) offers a flexible and open engineering framework where applications and interfaces covering multiple simulation domains can be easily implemented. Thanks to a cycle of 2 yearly production releases, [ESI](#) customers benefit from an ever evolving platform, adapted to the needs of various industries.

This latest release delivers notable new features, addressing specific requirements for the automotive industry. Among these are a rapid Model Checker, a Barrier Positioning tool and a Model Compare tool. The latter – offered in [Visual-Crash](#) PAM and [Visual-Crash](#) DYNA, dedicated environments for crash simulation – is a tool to compare two iterated models and identify variations on the basis of set criteria (ID, name, area, volume, mass and properties). The differences can then be visualized and copied from one model to another. This amounts to a gain in time and efficiency as engineers no longer need to browse iteration data manually. The increased productivity observed when using this Model Compare tool is estimated between ten and twenty fold.

*“Dow uses Visual-Crash DYNA to develop and deliver innovative solutions,”* said **Mansour Mirdamadi**, Senior Engineering Leader, Dow Automotive Systems. *“The model browser and compare tool in the latest release 5.5 allows our engineers to obtain multiple versions of LS-Dyna input decks, identifying changes made to the full vehicle model rapidly, thereby helping us deliver optimized products to our customers.”*

[Visual-Environment](#) 5.5 also includes improvements to existing applications such as [Visual-Viewer](#) for injury report, in line with new US NCAP vehicle safety regulations. Indeed, the National Highway Traffic Safety Administration (NHTSA) has updated the US NCAP rating program, including changed injury criteria and additional tests. This new rating will apply to vehicles built in 2010 onwards, based on a new overall vehicle safety score combining front, side and rollover programs. The animation speed within [Visual-Viewer](#) has been adapted to meet ever increasing performance targets, true batch mode execution is now fully supported, and the usability of plot windows is substantially improved. In addition, the differences in contour values between two models can be checked using Model Compare.

Finally, version 5.5 extends the capacity to interface with different [ESI](#) software solutions within [Visual-Environment](#) as it now provides an integrated environment for [Composite](#) and [Electromagnetic](#) simulations: Visual-Composites for [composite](#) structure manufacturing, in response to OEMs increasing use of composite materials; and Visual-CEM for virtual [electromagnetic](#) testing, with a special focus on full 3D modeling of metallic structures animated by external plane waves (computation of RADAR Cross Sections for instance).

Thanks to the integration of [Visual-Environment](#) in their engineering processes, industry leaders gain in productivity for model setup and post-processing.

*“At ESI, our mission is to help our customers gain time and save money with a full Virtual Prototyping platform. We’ve reached another significant milestone with the release of Visual-Environment 5.5”*, said **Anitha Nanjundaswamy Rao**, Platform Product Manager, ESI Group. *“The enhancements and new features of this release allow our customers to develop better products faster, thus helping them to experience an increase in productivity coupled with a reduction in costs”*.

For more information, please visit: [www.esi-group.com/simulation-systems-integration/visual-environment](http://www.esi-group.com/simulation-systems-integration/visual-environment)

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## ***Fishbowl Solutions® Announces Enhanced Functionality to their Bulk Loading Application for Windchill PDMLink® to Support Flat File Documents***

8 January 2010

Fishbowl Solutions announced support for flat file documents, such as PDF, Microsoft® Word, Excel® or PowerPoint®, with its [linkLoader](#) for Windchill PDMLink® solution.

PTC offers a Windchill® Data Loader that is a core tool used during a Windchill PDMLink implementation for tasks such as loading users, groups, attributes, and much more. It can also be used as a bulk loading tool for documents. Leveraging the Windchill Data Loader concept, Fishbowl developed a data loader offering a user interface and increased error handling capabilities, so the responsibility of loading documents could more easily be shared among system administrators and business owners.

“Fishbowl’s experience with CAD data loaders for Pro/ENGINEER, Solidworks, and Inventor made for an easy transition into developing a data loader for documents that would address our customers’ needs,” said Rick Passolt, Senior Account Executive at Fishbowl Solutions.

Fishbowl’s linkLoader for Documents has a user interface simplifying the mapping of files associated to documents during the bulk load process. linkLoader for Documents can run from any computer on the network, allowing system administrators to share the loading responsibility with business owners who understand the migration objectives. linkLoader for Documents is also designed to continue loading files even after one has failed. Error messages are also grouped so users do not have to sort through log files on the application server to determine the cause.

In addition to documents, linkLoader also supports PTC® Pro/ENGINEER®, SolidWorks, AutoCAD, and Autodesk Inventor® data.

For more information on [linkLoader for Documents](#) please contact [mcadsales@fishbowl solutions.com](mailto:mcadsales@fishbowl solutions.com) or visit Fishbowl Solutions’ website at [www.fishbolwsolutions.com](http://www.fishbolwsolutions.com).

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## ***Free Evaluation Software for CADSTAR 12.0 from Zuken***

12 January 2010

The latest version of [CADSTAR Express](#), the evaluation software from Zuken, is now available. For designers wanting to try out the latest version of this PCB design solution and really get a feel for how easy to use the software is, they can download the Express version free.

All the functionality of [CADSTAR 12.0](#) is available; the only limitation is that you can only work with 300 pins and 50 components. To go with this there is also a DIY manual that will help users through the design process and complete the evaluation process. There is also a free parts library featuring 20,000 listings from the extensive 240,000+ online CADSTAR parts library.

Highlights from version 12.0 in CADSTAR Express include functionality for managing obsolescence, a “getting started” Wizard that will guide the user step-by-step through the design setup process, along with the new start page for effective workflow management.

CADSTAR Express is now available. For more information about CADSTAR 12.0 and CADSTAR Express visit the CADSTAR pages on Zuken’s website [www.zuken.com/cadstar](http://www.zuken.com/cadstar)

To carry out a full extensive evaluation of CADSTAR please contact your local reseller, details can be

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found on the CADSTAR 'Where to buy' pages on the Zuken website [www.zuken.com/cadstar\\_contact](http://www.zuken.com/cadstar_contact)

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## ***ITI TranscenData Joins the Siemens PLM Software JT Open Program***

7 January 2010

[ITI TranscenData](#) announced that it has joined the JT Open Program in order to offer the industry standard JT™ data format to their CAD data interoperability customers.

The JT Open Program is an industry initiative sponsored by Siemens PLM Software. It consists of a community of software users and independent software vendors committed to the widespread adoption of a single, open and preferred 3D visualization platform based on JT technology. JT Open provides a forum where all members have equal access to JT technology, which has proven value in visualization, collaboration and data sharing across today's most popular PLM solutions.

JT is a mature lightweight data format that already enjoys widespread use in the automobile and aerospace industries and is equally suitable for all manufacturing industry applications. The success of JT and applications that exploit it is such that JT has become the preferred common data format for many large and mid-sized companies.

CADfix® will be ITI TranscenData's first application to benefit from the new membership. CADfix removes barriers that prevent the reuse of solid models by providing an extensive set of geometry manipulation tools for importing CAD/CAM/CAE data, repairing it, and exporting the data in the most suitable form for reuse in the downstream system.

The addition of the JT interface in combination with CADfix's existing support of other native CAD formats such as CATIA®, Inventor®, NX™ software, Pro/ENGINEER® and SolidWorks® will offer manufacturers and their suppliers an optimal CAD interoperability solution for data exchange, collaboration, and visualization.

"ITI TranscenData is committed to providing the most robust solutions in the CAD interoperability industry. The new capabilities offered through the JT Open Program further our mission," says ITI TranscenData President, Don Hemmelgarn, "Beyond the CADfix interface, we plan to expand support of JT in our other interoperability solutions, such as: CADIQ®, DEXcenter™ and the Proficiency Collaboration Gateway™."

"The JT Open Program proudly welcomes ITI TranscenData as our latest member" says Rich Ramsey, Vice President of Partner and Components Marketing, Siemens PLM Software. "This new addition is another example of the growing worldwide interest in supporting the JT data format, along with the recent acceptance of the JT documentation as the world's first ISO specification for 3D visualization in the PLM domain, continue to establish JT as the common 3D language for the global PLM industry."

Additional information about JT and the JT Open Program can be found at: [www.jtopen.com](http://www.jtopen.com)

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## ***Maplesoft Expands Scope of Automotive Models with Tire Components***

7 January 2010

Maplesoft™ announced an add-on component library for its physical modeling and simulation product

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MapleSim™. The MapleSim Tire Component Library lets engineers extend their multi-domain MapleSim vehicle models with high-performance pneumatic tire components.

The MapleSim Tire Component Library provides MapleSim users with industry-standard tire force model components. In addition, linear and user-defined tire models are available to provide flexibility for investigation and analysis. With the easy-to-use point-and-click MapleSim graphical environment, these fully parameterized force models can be integrated into existing vehicle dynamics models by simply dragging the component into a diagram and connecting the component to the vehicle model.

“This announcement should come as exciting news to the automotive industry,” said Laurent Bernardin, Executive Vice President, Research and Development, Maplesoft. “The additional components pave the way for engineers in the automotive industry to produce more accurate and complex real-time models of vehicle systems. Research and analysis in the areas of vehicle dynamics and stability control can also be expanded with this new tool.”

With the MapleSim Tire Component Library, users receive the following key features:

Kinematic quantities, such as slip angle, longitudinal slip, and inclination angle are derived automatically and available to the user. These quantities are used to determine the tire forces and moments.

Engineers can control how the tire slip and rolling radius are calculated, and include tire transients through differential equations involving relaxation lengths.

Support for the following industry-standard tire models: Fiala, Calspan, and Pacejka 2002. For custom research and development applications, user-defined tire models can be constructed easily using an intuitive interface.

Since the MapleSim Tire Component Library is a fully integrated add-on package to MapleSim, the tire model components can take full advantage of features available to MapleSim components. More information about this product can be found at

[http://www.maplesoft.com/products/toolboxes/tire\\_component/](http://www.maplesoft.com/products/toolboxes/tire_component/)

## **Availability and Pricing**

Single-user professional licenses of the MapleSim Tire Component Library are available for US \$2,995 in North America. Volume and academic discounts apply. These products are available directly from the Maplesoft Web Store or by contacting Maplesoft Sales at 1-800-267-6583. Outside of the US and Canada, these products are available from a local Maplesoft reseller.

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## ***Mentor Graphics Delivers Hardware-assisted Solution for the Accelerated Verification of USB 2.0 Products***

14 January 2010

Mentor Graphics Corp. announced a hardware-assisted solution to accelerate the verification of Universal Serial Bus (USB) 2.0 products, including hard disk drives and other mass storage devices. This new solution enables designers to test the System-on-Chip (SoC) design that controls a hard disk drive or similar mass storage device, by providing an accurate, hardware-based model of the real disk drive connected to their SoC.

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This iSolve™ USB Peripheral product has a ‘plug-and-play’ interface to the Veloce® family of hardware-assisted emulators, providing a cost-effective and efficient solution to verify USB designs. The new product adds to the existing iSolve family of solutions for the accelerated verification of applications such as multimedia, networking, embedded systems, wireless, and storage devices.

USB is a pervasive technology across a wide range of products, with billions of devices having been created that use the protocol. With the ever-increasing demand for system-level verification of such products, a heavy burden is placed on SoC designers who need to verify how their designs interact with the USB devices connected to them.

“New consumer products, in particular, are increasingly dependent on the use of the latest-generation USB devices, and design engineers are concerned with the quick and efficient verification of their SoC designs that will connect to these devices,” said Jim Kenney, director of marketing, Mentor’s Emulation Division. “We took a new approach to solve these challenges with our iSolve USB Peripheral product, by providing a flexible, easy-to-use, and highly-configurable USB peripheral device model. This gives our customers the ability to verify multiple configurations and descriptions of USB peripheral devices—all with the same emulator solution—rather than needing many specific devices.”

Combined with the Veloce emulation family, the iSolve USB Peripheral product delivers a high-performance and easy-to-use system verification environment to develop new SoCs containing a USB host controller, without compromising delivery schedules. The solution offers several key benefits:

- Easy-to-use configuration tool means users are able to parameterize their USB mass storage device quickly and start their SoC verification as soon as possible
- Productive debug environment provides access to low-level transactions to detect those hard-to-find bugs
- High-speed data accesses allows loading or unloading of GBytes of data in minutes rather than hours.
- Compliant to USB 2.0 standard

The iSolve USB Peripheral solution can be used with traditional in-circuit emulation (ICE) as well as a high-performance, transaction-based acceleration mode of operation. The ability to mix and match traditional ICE capabilities with high-performance transaction-based acceleration facilitates the smooth transition from a simulation-centric use model to in-circuit emulation. The solution is available for deployment at customer sites effective immediately.

For product information, contact your Mentor Graphics sales representative, call 1-800-547-3000, or visit the website at <http://www.mentor.com/med>.

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## ***National Instruments Introduces LabVIEW Robotics 2009 for Designing Sophisticated Robotics Control Systems***

11 January 2010

National Instruments today announced [LabVIEW Robotics 2009](#), a new version of its graphical system design software that provides a standard development platform for designing robotic and autonomous control systems. NI LabVIEW Robotics 2009 delivers an extensive robotics library with connectivity to standard robotic sensors and actuators, foundational algorithms for intelligent operations and perception and motion functions for robots and autonomous vehicles. With this new software, engineers and

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scientists now can implement ideas faster with deployment to real-time embedded and field-programmable gate array (FPGA) hardware, and can maximize the software flexibility through integration with a variety of processing platforms, third-party software tools and prebuilt robot platforms.

“When building a new robot, one must typically start from scratch. With no software standard, there is very little opportunity for code reuse or sharing,” said Dr. Dave Barrett, professor at Olin College and former vice president of engineering at iRobot Corporation. “We need an industrial-grade, hardened, richly supported software development system to build autonomous, mobile robots that can sense, think, and act in the world around them. I have spent 15 years trying to come up with the best robotics programming language, and LabVIEW has accomplished that.”

Because of its open graphical system design platform, LabVIEW Robotics 2009 can import code from other languages including C/C++, .m files and VHDL, and communicate with a wide variety of sensors using built-in drivers for everything from LIDAR, IR, sonar and GPS devices to dramatically reduce development time allowing engineers and scientists to focus on adding their own algorithms and intelligence. In addition, the software includes new robotics IP capable of easy implementation to real-time and embedded hardware for obstacle avoidance, inverse kinematics and search algorithms to help an autonomous system or robot plan an optimal path.

“The LabVIEW graphical and textual language has evolved dramatically in the past 23 years,” said John Pasquarette, vice president of product marketing for software at National Instruments. “Initially developed as a data acquisition and instrument control tool for automated test, LabVIEW has grown into a powerful embedded mechatronics design platform. Engineers and scientists now can design sophisticated control systems and quickly deploy their applications to real-time embedded hardware from a single environment.”

LabVIEW Robotics 2009 is ideal for designing and prototyping applications including the following:

- Autonomous and semiautonomous ground vehicles
- Robot rescue platforms
- Personal and service robots
- Medical robotic devices
- Academic and research robots
- Agricultural and mining systems

When combined with [NI CompactRIO](#) or [NI Single-Board RIO](#) devices, LabVIEW Robotics 2009 provides a complete development platform for designing robotic control systems. The reconfigurable I/O (RIO) architecture incorporates a real-time processor, an FPGA and a wide range of I/O, including analog, digital, motion and communication. By combining off-the-shelf sensors with a CompactRIO or NI Single-Board RIO embedded system, engineers and scientists can rapidly design and prototype complex robotic applications.

Readers can explore a collection of robotics tutorials, webcasts, videos and case studies about using NI hardware and software by downloading the “[Robotics 101 Resource Kit](#)” at [www.ni.com](http://www.ni.com). For additional information on LabVIEW Robotics 2009, readers can visit [www.ni.com/robotics](http://www.ni.com/robotics).

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***National Instruments Multisim 11 Simplifies Circuit Simulation for Teaching and Design***

12 January 2010

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National Instruments introduced [Multisim 11](#), the latest version of its circuit simulation software, with specialized editions for both hands-on learning and professional circuit design. The Multisim software delivers a graphical approach that abstracts the complexities of traditional circuit simulation, helping educators, students and engineers employ advanced circuit analysis technology.

The [academic edition of Multisim 11](#) incorporates specialized teaching features and is complemented by circuits textbooks and courseware. This integrated system helps educators engage students and reinforce circuit theory with an interactive, hands-on approach to investigating circuit behavior. Widely implemented throughout academia, technical colleges and four-year universities choose Multisim for its interactive components, simulation-driven instruments and integration to real-world analog and digital measurements.

[Multisim 11 Professional](#) helps engineers optimize circuit designs, minimize errors and reduce prototype iterations. When combined with the new [NI Ultiboard 11](#) layout and routing software, Multisim provides engineers a cost-effective, end-to-end prototyping platform. Its integration with [NI LabVIEW](#) measurement software also helps engineers define custom analyses to improve design validation.

Key benefits of Multisim 11 include the following:

## **Multisim 11 Academic**

- Simplify digital circuits teaching by exporting raw VHDL from a programmable logic device (PLD) schematic
- Guide hands-on electronics experiments with new educator-requested AC single-frequency analysis
- Correlate simulated data with real-world measurements by integrating with the [NI Electronic Laboratory Virtual Instrumentation Suite \(NI ELVIS\)](#) educational prototyping platform

## **Multisim 11 Professional**

Simulate better with SPICE parser improvements, updated BSIM models, support for advanced parameters and enhanced digital simulation accuracy

- Prototype easier and ensure design synchronization and transparency with enhanced forward/backward annotation from the Multisim schematic to an Ultiboard layout
- Improve design communication with on-page connectors and a new WYSIWYG net naming system

Readers can learn more and watch videos about Multisim 11 by visiting [www.ni.com/multisim/upgrade](http://www.ni.com/multisim/upgrade).

## **Additional Resources**

[NI Circuit Design Educator and Classroom Resources](#)

[Texas A&M Incorporates Multisim Throughout Their Curriculum](#)

[Using Multisim to Design a Solar-Powered Lantern for Developing Nations](#)

## **National Instruments in Academia**

National Instruments is committed to enhancing engineering and science education worldwide by providing educators and students with graphical system design software, intuitive teaching tools, and modular hardware to connect the curriculum with the real world. Professors and students benefit from

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powerful, professional tools such as NI LabVIEW graphical development software and NI Multisim, which helps students visualize and implement engineering concepts. The integration of LabVIEW in the classroom creates an effective, dynamic learning environment – from LEGO® MINDSTORMS® Education NXT in primary schools to research laboratories in universities. NI also offers an [Academic Site License](#) to provide educators, researchers and students discounted rates on NI products. For more information about NI academic products, curriculum resources and discounts, visit [www.ni.com/academic](http://www.ni.com/academic).

## Pricing and Contact Information

NI Multisim 11 Academic

Priced\* from \$499; €459; ¥66,000

NI Multisim 11 Professional

Priced\* from \$1,549; €1,549; ¥228,000

Web: [www.ni.com/multisim](http://www.ni.com/multisim)

*\*All prices are subject to change without notice.*

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## ***SAP Expands Maintenance and Support Portfolio, Offering Choice, Predictable Pricing and Best Value to all Customers Globally***

14 January 2010

In a demonstration of its commitment to customer satisfaction, SAP AG announced a new, comprehensive tiered support model that is being offered to customers worldwide. This support offering includes SAP Enterprise Support services and the SAP® Standard Support option and will enable all customers to choose the option that best meets their requirements. Additionally, in response to the financial challenges organizations continue to face, SAP also announced that its 2010 fees for existing SAP Enterprise Support contracts will remain unchanged from 2009 levels.\*\*

“This tiered maintenance model will allow customers choice in the SAP support model,” said Nils Niehörster, industry analyst, RAAD Research. “By providing different support options, simplifying the pricing structure, and giving a level of predictability to budget planning, SAP is helping its customers make decisions based on their business requirements.”

“The idea that customers can choose a support offering better tailored to their individual needs is a plus for enterprises in this economy and leading in the business software space,” said Pierre Boucher, vice president, Systems and Operations, Peerless Clothing, Inc. “We find that SAP Enterprise Support is providing our business with benefits that demonstrate its long-term business value.”

“We see the value SAP Enterprise Support offers and how our business stands to benefit from the focus on lowered TCO and business continuity,” said Peter Rathfelder, executive board member, Endress+Hauser InfoServe GmbH+Co. KG. “For us, it is clear that moving from SAP Standard Support to SAP Enterprise Support is the appropriate way for Endress+Hauser.”

## **Support Options Provide Tailored Service Globally**

Existing and new SAP customers will be able to choose the level of global IT support they receive from SAP. SAP Standard Support provides support features including updates, problem resolution,

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knowledge transfer, quality management and more to keep IT landscapes up-to-date and stable. For customers with further support needs, SAP offers supplemental support offerings, such as SAP® MaxAttention™ support or SAP® Safeguarding services.

SAP Enterprise Support, the industry-leading proactive support offering, delivers all features of SAP Standard Support and additionally focuses on business continuity, business process improvement, protection of investment and reducing total cost of operations by helping customers to increase efficiencies and to decrease system downtime. These support offerings are provided through SAP Active Global Support (AGS), an organization that empowers companies through knowledge transfer and access to standards and best practices.

“By expanding its portfolio, [SAP](#) is offering the choice that customers expect,” said Mike Stoko, chairman, SAP User Group Executive Network (SUGEN). “SAP Enterprise Support remains the top support offering on the market, as customers participating in the benchmark program are discovering, and other customers will quickly discover the value as well.”

“SAP’s new support model is a direct response to the many discussions we’ve had with our customer and user groups,” said Léo Apotheker, chief executive officer, SAP. “We have taken into consideration the feedback and suggestions from customers worldwide. As a result, we are now providing consistent, global support alternatives that address differentiated customer needs while continuing to bring the best value and full transparency to our customers with SAP Enterprise Support.”

\*\* Customers with current fees that are lower than SAP-established 2009 levels may be increased in accord with their contracts.

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## ***Synopsys Announces DesignWare Protocol Analyzer for Verification of SuperSpeed USB 3.0-based Designs***

13 January 2010

Synopsys, Inc. announced the DesignWare® USB 3.0 Protocol Analyzer, a new graphical debugger for SuperSpeed USB 3.0, the latest generation of the USB interface that delivers 10 times the speed of Hi-Speed USB 2.0. The DesignWare USB 3.0 Protocol Analyzer simplifies debug for engineers verifying SuperSpeed USB 3.0 and USB 2.0 interfaces in their systems-on-chip (SoCs) by providing a graphical view of the protocol traffic. It helps users quickly identify unexpected patterns in the design traffic and then switches to a detailed view of the packet information to determine the cause.

The DesignWare USB 3.0 Protocol Analyzer is part of the DesignWare verification IP for USB 3.0. It displays the protocol traffic generated from simulation runs using the DesignWare USB 3.0 verification IP transactors in a high-level color-coded summary view and a more detailed symbol-view of the individual packets and payloads. Debug is accelerated by allowing designers to distinguish and browse traffic types and switch between the two views. The DesignWare Verification IP for USB 3.0 supports Verilog testbenches, and constrained random methodologies as defined in the proven Verification Methodology Manual (VMM) for SystemVerilog.

"The DesignWare Protocol Analyzer allows us to browse protocol activity and makes it much faster and easier to debug protocol errors and latency issues," said Jessy Chen, executive vice president of Realtek. "As we develop and bring SuperSpeed USB 3.0 integrated products to the market, it is important that our engineers have the right tools to accelerate investigation of protocol behavior."

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"Verification engineers are faced with tremendous challenges as standard interfaces on SoC designs increase in number and complexity," said John Koeter, vice president of marketing for the Solutions Group at Synopsys. "By easing the verification effort with the new DesignWare Protocol Analyzer, Synopsys is leading the effort to help Realtek and other early providers of USB 3.0 solutions bring innovative products to market faster and with less risk."

## Availability

The DesignWare USB 3.0 Protocol Analyzer and DesignWare USB 3.0 Verification IP are both available now with VCS® support to select customers. For more information, please visit:

<http://www.synopsys.com/usb3>

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## ***Synopsys Introduces Industry's First SystemC TLM-2.0 SuperSpeed USB 3.0 Models***

12 January 2010

[Synopsys, Inc.](#) announced the availability of SuperSpeed USB 3.0 transaction-level models (TLM) supporting the Open SystemC™ Initiative (OSCI) TLM-2.0 API specification. The models are TLM representations of the Synopsys DesignWare® SuperSpeed USB 3.0 Device and xHCI Host Controller IP. The SuperSpeed USB 3.0 models enable pre-RTL and pre-silicon software development, verification and architecture exploration. They are part of the DesignWare System-Level Library which features more than 100 TLM models, including models of the DesignWare Interface IP portfolio.

With the integration of SuperSpeed USB 3.0 into advanced SoCs and the increasing complexity of software stacks, the need to develop the associated embedded software as early as possible increases. The availability of ready-to-use SuperSpeed USB 3.0 TLM models, which are cross-verified with the corresponding DesignWare SuperSpeed USB 3.0 Interface IP and the associated Linux drivers, enables rapid development of virtual platforms for designs integrating the SuperSpeed USB 3.0 Interface.

Virtual platforms enable the concurrent development and debug of hardware and embedded software using an executable model of the hardware long before RTL and first silicon are available. Like all models in the DesignWare System-Level Library, the SuperSpeed USB 3.0 TLM models work in any IEEE1666-compliant SystemC simulator, including Synopsys' Innovator for virtual platforms and VCS for functional verification. Adhering to the TLM-2.0 specification allows for easy integration, with models coming from different sources, regardless of the simulation environment.

"A virtual platform software development environment, as provided by Synopsys, is critical to reducing our time to market and overall product cost when delivering our USB 2.0 and SuperSpeed USB 3.0 software stacks," said Terry Moore, CEO of MCCI. "The Synopsys USB virtual platforms developed with Innovator and DesignWare System-Level Library have proven themselves invaluable to MCCI and to our customers many times over. Our USB stack is ported and available for the customer's platform much earlier in their product development than without using virtual platforms. This saves us and our customers critical time."

The DesignWare System-Level Library is part of Synopsys' Software-to-Silicon Verification Solution that offers a comprehensive suite of proven embedded software development, system validation, functional verification and circuit simulation software, hardware, intellectual property (IP), methodologies and services for complex system-on-chip (SoC) development. The solution includes the Confirma rapid prototyping products, the VCS® high-performance simulator, DesignWare IP,

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DesignWare System-Level Library and Innovator, enabling hybrid virtual/physical prototyping environment for embedded software development and verification.

## **Availability**

The DesignWare System-Level Library featuring the TLM-2.0 models for SuperSpeed USB 3.0 is available immediately; existing licensees receive it as a regular maintenance update.

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## ***Synopsys Speeds Timing Signoff by 2X With Latest Multicore Technology***

11 January 2010

[Synopsys, Inc.](#) announced the immediate availability of PrimeTime™ 2009.12, delivering up to 2X speed up of timing signoff through the addition of threaded multicore processing. With this latest addition, Synopsys' PrimeTime tool provides a new level of flexibility - enabling design teams to achieve optimal runtime performance across their heterogeneous multicore compute environments by utilizing distributed and threaded multicore processing in tandem.

"At Synopsys we recognize that IC designers are being asked to develop bigger, more complex chips on the same schedules as previous generations, putting more pressure on timing signoff turnaround time," said Ahsan Bootehsaz, vice president of engineering for design analysis and signoff at Synopsys. "IC designers are working with diverse compute environments that are comprised of multiple classes of multicore compute servers. PrimeTime 2009.12 completes our vision of delivering a comprehensive solution that enables a broad set of designers to take full advantage of multicore performance."

"The threaded multicore capabilities in PrimeTime 2009.12 reduced our runtime on a 48 million gate design by over 40%, significantly reducing our signoff time-to-results," said Michael Trocino, IC Design Manager at Coherent Logix. "It gives us the flexibility with PrimeTime's distributed multicore capability to utilize our existing compute resources more efficiently and to take advantage of new hardware as our farm grows."

Synopsys' gold standard PrimeTime static timing and signal integrity (SI) analysis tool, a key signoff component of the Galaxy™ Implementation Platform, includes three key technologies that collectively make it one of the most flexible and comprehensive multicore static timing solutions today. First, PrimeTime's threaded multicore capability boosts runtime efficiency on a multicore compute server, delivering up to a 2X speed up utilizing just 4 cores. Second, PrimeTime' distributed multicore capability can divide very large designs across a compute farm enabling the use of more readily available smaller compute servers. Synopsys' engineers have solved the challenge of handling the large highly-coupled parasitic netlists used in SI analysis with minimum overhead and partition-to-partition communication while maintaining golden accuracy and runtime performance. And third, PrimeTime pioneered distributed multi-scenario analysis (DMSA), which allows designers to perform timing analysis and ECO fixing simultaneously across multiple scenarios on multiple compute servers, thereby significantly reducing design iterations and overall turnaround time.

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## ***Theorem Solutions Announces CADverter for 3DVIA Composer***

12 January 2010

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Theorem Solutions announced the immediate availability of CADverter JT for 3DVIA Composer. Working within the 3DVIA architecture CADverter JT provides interactive, batch and command line interfaces to open JT files, enabling maximum flexibility and maximum benefit to 3DVIA Composer users.

Interactive 3DVIA Composer users can now simply open JT data, including geometry, assemblies, product structure, meta data and PMI. All that is required is a selection from a pull down menu for quick and easy use of JT files for the creation of assembly and disassembly procedures, technical illustrations, interactive 3D product experiences, training materials, marketing materials, sales tools and more.

Working within the Dassault Systèmes' 3DVIA Composer architecture Theorem's CADverter provides two additional ways for the 3DVIA user to incorporate JT data. The need to work with multiple JT files in a batch is met by using the 3DVIA Sync interface and a command line interface enables integration with PLM applications through 3DVIA Enterprise Sync.

The integration of CADverter and 3DVIA Composer is more than a technical innovation. This new CADverter enables 3DVIA Composer users in enterprises of all sizes to work with JT files to meet and overcome longstanding business challenges of reducing costs, improving quality and reducing timescales.

Theorem's Product Manager Trevor Leeson comments “There is a fast growing trend for the re-use of 3D design data across business enterprises. Wider use of 3D data brings tangible business benefits and we are delighted that Theorem technology is being applied from within 3DVIA to make this happen”

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## ***Transoft Solutions Launches GuidSIGN 5.1***

12 January 2010

Transoft Solutions, developers of industry leading software for the engineering and architectural communities worldwide, announces the launch of the latest version of the sign design software, GuidSIGN version 5.1. Compatibility, usability, new fonts, and improved features are key highlights in this newest version of the successful sign design software.

GuidSIGN, a CAD-based WYDIWYG (what you design is what you get) software, gives users the ability to create cutter-ready highway and roadway signs, designed to national, state / provincial, regional, or custom standards in minutes. As a comprehensive design tool GuidSIGN automates the design process with intelligent object dimensioning and innovative sign template creation tools.

For the newest version of GuidSIGN, platform and operating system compatibility are primary improvements. The updated version supports both AutoCAD 2010 and MicroStation V8i environments in addition to being fully compatible with Microsoft Windows 64 bit operating systems, including Windows 7. Users can be confident of a smooth transition as they upgrade to the most recent CAD platform and/or Operating Systems. Moreover, updated compatibility of GuidSIGN also gives users of Transoft Solutions' SIGMA a productivity enhancement.

Newly included in GuidSIGN 5.1 are the F series library, NY shields, NYSDOT drawing sheets, as well as NYSDOT reports.

Complemented with updates to panel styles, exit panels, arrows, and templates. Further information about GuidSIGN 5.1, including a full list of new features and functions, a downloadable brochure,

signup for an evaluation copy, product videos, and GuidSIGN training solutions can be found at <http://www.transoftsolutions.com/GuidSIGN>.

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## **ZWSOFT Announces its Fastest ZWCAD™ Ever - ZWCAD 2010**

12 January 2010

ZWCAD Software Co., Ltd. announced the release of ZWCAD 2010, along with its second annual design contest – ZWCAD Design Contest 2010.

Now available in 14 languages\* and highly compatible with Windows® 7, ZWCAD 2010 assures users of faster speed through memory optimization, improved features (In-Place MTEXT Editor & Splinedit) and enhanced application programming interfaces.

\*ZWCAD 2010 is available in 14 multilingual versions, including Chinese (Simplified and Traditional), Czech, English, French, German, Italian, Japanese, Hungarian, Korean, Polish, Russian, Spanish and Turkish.

### **Experience Major Advances in CAD Optimization With ZWCAD 2010**

#### **Memory Optimization**

Viewing operations like zoom, pan, and redraw operate more smoothly, and the user work faster and more efficiently because their Memory Optimization improves the efficiency of commonly-used commands, resulting in greater speed and stability, especially when working with large drawings.

#### **More Efficient Drafting Features**

ZWCAD 2010 provides improved drawing features like:

**MTEXT Editor.** ZWCAD 2010's newly-developed In-Place MTEXT Editor will help the user focus on design and make his/her work experience more efficient with new and improved functions such as a new text formatting toolbar, a new dialog box for formatting paragraphs, and a new display options menu. Now the user can create and edit text objects freely as in other professional word processing software.

**Splinedit** for changing the shape of Spline objects. The user can edit fit data, adjust refinements, change directions and move vertices, which enables his/her to work more accurately with Spline.

#### **Powerful Application Programming Interfaces with new functions**

SDS (similar to ADS).

LISP (similar to AutoLISP) now with a series of new functions added to the LISP Vlax and Vlr series.

VBA with new functions such as AppendOuterLoop and AppendInnerLoop.

ZRX (ZWCAD Runtime Extension, similar to ARX) is one of the most powerful APIs in ZWCAD. ZRX enables developers to directly access DWG database, customize entities and migrate their former ARX applications to ZWCAD quickly.

### **Showcase Your Talent at ZWCAD Design Contest 2010**

With the release of ZWCAD 2010, ZWSOFT is having its second annual design contest to showcase and reward the imaginations and talents of CAD users everywhere. They want you to show us what the future has in store by joining them in submitting a design for something we might see in 2015. A widget,

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a gadget, a new medical device, a spacecraft, maybe, or a magnificent new performing arts center; you decide, you design.

Whatever field it is in – architecture, engineering, construction or manufacturing – all that matters is that you create the design with ZWCAD, and you're in the competition for the top prize, and there are over \$15,000 USD in prizes. You can learn all the contest details and join at <http://www.zwcad.org/DC2010/>, and you can download ZWCAD 2010 from: <http://www.zwcad.org/>

## **About ZWSOFT**

ZWSOFT is headquartered in Guangzhou, China, with branches in Beijing, Shanghai, and Wuhan. As a leading supplier of CAD software solution, the company employs about 360 staff and is supported by an international network of highly skilled strategic partners, distributors, and resellers.

ZWCAD is ZWSOFT's flagship product. It meets the needs of a broad base of target groups in 2D/3D design industries with 180,000 users throughout the world. ZWCAD is the leading brand in China's CAD industry, and it competes successfully in over 80 other countries.

## **ZWCAD Software Co., Ltd.**

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