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## Acquisitions

### *CST Completes Acquisition of SimLab Software GmbH*

16 April 2009

Computer Simulation Technology AG (CST), announced that SimLab Software GmbH has become a 100% subsidiary company of CST AG. The acquisition of all outstanding shares followed the successful partnership and participation agreement signed in June 2007.

Design engineers interested in PCB and cable harness simulation will profit from this acquisition through full exploitation of synergies in product development and support. This step will accelerate the incorporation of SimLab's technology into CST's design environment. Two products, based on SimLab technology, have already been integrated successfully in CST STUDIO SUITE™. CST PCB STUDIO™ (CST PCBS) and CST CABLE STUDIO™ (CST CS) are used to study signal propagation

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on PCBs and cable harnesses, with high efficiency.

## **CST PCB STUDIO**

CST PCBS is a specialist tool for the investigation of Signal and Power Integrity and the simulation of EMC and EMI effects on Printed Circuit Boards (PCB). Applications include high speed digital, analog/mixed signal, and power supply. CST PCBS integrates into various design flows, calculating parasitic crosstalk effects and simulating the electronic network in time or frequency domain. Of particular interest is the interface with CST MICROWAVE STUDIO® (CST MWS) which enables linking PCB simulations with subsequent full 3D analysis of electromagnetic emissions.

## **CST CABLE STUDIO**

CST CS is focused on the analysis of SI, EMC and EMI effects in cable harness systems. Applications include the optimization of shielding, weight and space consumption on single wires, twisted pairs, and complex cable harnesses with an unlimited number of cables. Typical analyses include voltage distributions on probes, current flow through components, scattering parameters, impedances, and emissions simulation through CST MWS.

“The aim of this acquisition was to address the growing demand for EMC and Signal Integrity analysis tools,” commented Dr. Bernhard Wagner, Managing Director, CST. “SimLab’s extensive know-how in the EMC market has proven invaluable, and complements CST’s expertise in the 3D EM simulation market. Our customers will benefit from a combination of tightly integrated technologies which is unique in this market.”

## **Availability**

CST CABLE STUDIOTM and CST PCB STUDIOTM are available as part of CST STUDIO SUITETM 2009. More information from <http://www.cst.com>.

## **About CST**

CST develops and markets high performance software for the simulation of electromagnetic fields in all frequency bands. CST’s customers operate in industries as diverse as Telecommunications, Defence, Automotive, Electronics, and Medical Equipment, and include market leaders such as IBM, Intel, Mitsubishi, Samsung, and Siemens. With 160 employees worldwide and a network of qualified distributors, over 190 people are dedicated to the development and support of its EM products in more than 30 countries.

CST’s flagship product, CST MICROWAVE STUDIO® (CST MWS) enables the fast and accurate analysis of high frequency (HF) devices such as antennas, filters, couplers, planar and multi-layer structures and SI and EMC effects. CST MWS offers considerable product to market advantages such as shorter development cycles, virtual prototyping before physical trials, and optimization instead of experimentation.

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## ***EMA Acquires DesignAdvance***

15 April 2009

EMA Design Automation™, a full-service provider of Electronic Design Automation (EDA) solutions, announced that it has acquired DesignAdvance and all of its intellectual property.

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“This acquisition builds on our EDA portfolio and strengthens our PCB solutions focus,” said Manny Marcano, president and CEO of EMA Design Automation. “This patented technology jointly developed by DesignAdvance and Carnegie Mellon University offers significant productivity enhancements for our PCB design customers.”

As part of the acquisition, EMA has hired the key people responsible for creating and enhancing the DesignAdvance products, including Chandan Aladahalli, Ph.D., lead scientist and cofounder of DesignAdvance. This will allow EMA to continue the development of the three DesignAdvance products - CircuitSpace®, CircuitProbe™, and CircuitPlan™. “With EMA’s deep penetration into the PCB design market, we’ll be able to work with a broad range of customers to help solve their real world problems using our cutting edge technology,” said Dr. Aladahalli. “EMA provides the customer interaction that allows us to tailor our aggressive roadmap and product development schedule to meet the specific needs of the marketplace.”

CircuitSpace implements a hierarchical approach to printed circuit board design through enhanced Autoclustering™ and replication technologies. CircuitSpace also expedites the design process through the use of template generation for global library usage across divisions, template usage with and without etch, automated layout reference designator propagation, and automated change report between layout designs. Because CircuitSpace is accessed through an add-on menu within the Cadence® Allegro® PCB Editor, it is very easy to integrate these capabilities into a design flow.

The acquisition also includes CircuitProbe and the recently announced CircuitPlan tool. CircuitProbe offers cross-probing between the Cadence Allegro PCB editor or viewer and a PDF schematic. CircuitPlan is a tool that provides the industry’s first solution that offers true planning, feasibility and design collaboration from concept level planning through physical design and test. CircuitPlan leverages DesignAdvance’s patented technologies such as Autoclustering, intelligent design (IP) reuse, and cross-probing with powerful floor planning and collaboration capabilities.

“This is a great opportunity for the product as well as the development team,” said Ed Pupa, president of DesignAdvance. “EMA is very focused on the PCB design flow, and their close relationship with Cadence Design Systems will allow the team to work within that flow and offer better integration.”

For more information about EMA and its products, visit <http://www.ema-eda.com> or call 800-813-7494 and sign up for a demonstration webinar.

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## ***Tekla Acquires 3-Design's Software Business in the UK***

23 April 2009

[Tekla Corporation](#) has acquired the business of 3-Design LLC, UK-based developers of structural engineering software that has been known as 3D+™\*. Until now the software has been distributed by a reseller. With this acquisition Tekla has strengthened their software solution for structural engineering especially in the UK market. Tekla will provide dedicated support for all software users as well as an opportunity to phase in with a comprehensive solution combining the best of both systems to secure the customers past investments.

Along with the acquisition, all current 3-Design's software users will be offered the opportunity to upgrade their software licences to Tekla Structures BIM (Building Information Modelling) software. The business will be passed over with as little disruption as possible to current customers and step by

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step integrated into the Tekla solution offering.

"3-Design's customers have been provided with a good level of service over the years and we aim to continue the good work that has been done and improve on it where possible," promises Andrew Bellerby, Managing Director of Tekla (UK) Ltd. "Tekla is also committed to integrating our software products together and developing them further into an exquisite solution covering a much wider scope of the structural engineering and construction management workflow than has been available before. We understand the customers have invested heavily in the software both financially and time wise and we are committed to moving them forward with improved solutions" he continues.

Tekla currently employs a number of former experts of 3-Design's software and will thus be able to offer dedicated support for completing ongoing customer projects. Their experience in switching to Tekla Structures will be invaluable in ensuring a smooth transition for the users. Tekla Structures has been a solution for noteworthy structures including Wembley Stadium, Swiss Re, Heron Tower, Emirates Stadium, Freedom Tower in New York, as well as the Bird's Nest Stadium and China Television Centre, both used for the 2008 Olympics in Beijing. Tekla Structures is already in use by industry leading companies such as Arup, Buro Happold, Ramboll, Thornton Tomasetti, and Skanska.

## 3-Design

3-Design LLC was established in December 1996 to develop a software solution for the modelling and design of structural frames, both small and large scale. 3-Design has specialized in the development of 3D solid modelling, parametric design, automated drafting and bill of materials software for applications which utilize extruded profiles, panel elements and any associated accessories or fixings. They have also offered a full consultancy service, providing bespoke software tailored to customers' needs. A CAD system for structural engineers, 3-Design's software (marketed as 3D+ TM\*) includes automated 2D and 3D structural drawings using a comprehensive modelling system. Within 3D+ TM\* a single model is created from either the extensive library of structural objects, or provided automatically from integrating design solutions. From this 3D model, 2D drawings such as floor plans, sections, details and 3D views etc. can be created automatically. 3D+ TM\* handles all forms of construction and material types. In the year 2000, 3-Design joined forces with an exclusive worldwide provider of the 3D+ TM\* product.

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## CIMdata News

***CIMdata Introduces a New PLM Certificate Program: Ensures strong understanding of PLM concepts and prepares professionals to address PLM implementation challenges***

23 April 2009

CIMdata, the leading global Product Lifecycle Management (PLM) consulting and research firm, is pleased to announce the introduction of a new [PLM Certificate Program](#), the flagship of *CIMdata PLM Leadership*—the PLM industry's most comprehensive non-biased education and training offering for today's PLM professionals. The PLM Certificate Program was developed to ensure that the individuals participating in a PLM initiative all have the same level of PLM understanding, and to prepare PLM professionals at several levels, to successfully address the challenges of their implementations.

Mr. Peter Bilello, CIMdata Vice President, explained that an enterprise's inherent need to manage its products' lifecycles in a holistic and efficient manner has grown significantly over the last several years.

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As a result, an ever-increasing number of companies, recognizing the need to define and enable a comprehensive enterprise strategy, are viewing PLM as a critical business initiative. Mr. Bilello noted, “PLM’s criticality, considerable depth and breadth, and current evolving nature have generated opportunity and stress for companies who are defining and enabling a comprehensive PLM strategy, as well as on those that support the market with technologies and services. This is due in large, to the shortage of knowledgeable PLM resources.” He added that the PLM industry acutely needs a best-practice based education and training program to provide the solid foundation necessary to successfully define, implement, and continuously improve today’s and tomorrow’s PLM environments. “It is for this reason CIMdata has continued to develop and deliver a rich set of educational and training services for individuals and companies that seek leadership in PLM.” said Mr. Bilello.

CIMdata’s internationally recognized 5-day PLM Certificate Program is an assessment-based certificate program comprised of 9 sessions that are given over a five-day period, and delivered through a series of lectures, case studies, individual as well as group exercises, and tests. Upon completion of the program, each participant will receive a **CIMdata PLM Certificate**.

To earn the **CIMdata PLM Certificate**, participants must complete all 9 sessions in one of two ways:

By attending the full program delivered over 5 consecutive days; or

By attending the prerequisite Core PLM Certificate sessions offered over 3 consecutive days and at a later time, within a 12-month period, completing the remaining sessions given over 2 consecutive days.

The PLM Certificate Program covers a number of topics, including:

- Introduction to PLM

- PLM Benefits & Potential Value

- PLM Strategy & Solution Definition

- The PLM Commercial Landscape

- PLM Solution Evaluation & Selection

- PLM Implementation, Monitoring & Continuous Improvement

- Configuration Management’s Role in PLM

- Expanding PLM Across the Value Chain

- The Expanding Reach of PLM

CIMdata has scheduled three PLM Certificate Program educational sessions to be held in Helsinki—Finland, Neumarkt—Germany, and in Ann Arbor—Michigan. For more information on each of the scheduled PLM Certificate Program educational events, including detailed course description, fees and registration information, please visit:

[Helsinki, Finland](#), May 11-19, 2009

[Neumarkt, Germany](#), May 25-29, 2009

[Ann Arbor, Michigan](#), June 8-17, 2009

About PLM

CIMdata defines PLM as a strategic business approach that applies a consistent set of business solutions in support of the collaborative creation, management, dissemination, and use of product definition

information across the extended enterprise from concept to end of life—integrating people, processes, business systems, and information. PLM forms the product information backbone for a company and its extended enterprise.

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## Company News

### ***Arena Signs manofIT as Exclusive Reseller for Israel***

23 April 2009

Arena Solutions announced it has signed manofIT as its exclusive reseller for Israel. Arena and manofIT formed this relationship to better respond to the region's growing demand for Arena products and services. manofIT will be the only reseller in Israel to market and sell Arena.

The Arena-manofIT partnership will enable more of the region's manufacturers to support their operations teams by adopting Arena to help them get their products to market in line with time, cost, regulatory and quality expectations. They will build upon the Arena customer base in Israel, including manufacturers like DVTel, a player in the creation, development and delivery of Multi-Source Intelligence Systems over IP networks, and Oree, a developer of next-generation planar LED illumination.

Arena Solutions more than doubled its international customer base over the last calendar year. Arena recently announced that Matrix Applied Computing would be its exclusive reseller in Oceania, and the company expects subsequent reseller relationships to be established in Scandinavia and Continental Europe, among other international locations.

manofIT provides high-quality consulting services and products to clients throughout Israel. The company has performed implementations and software developments and consulted on a range of business technologies since 2006. According to Boaz Meridor, co-CEO of manofIT, "The demand for software-as-a-service (SaaS) business applications has grown rapidly in Israel. Partnering with Arena Solutions enables us to satisfy manufacturers' need for a solution for collaborative bill of materials (BOM) and change management. manofIT's services will be greatly enhanced with the Arena solution included in our portfolio of offerings."

manofIT will be offering the full range of Arena software and implementation services in the region, backed by Arena Solutions in the United States. Israel-based companies can contact manofIT at <http://www.manofIT.com> or contact co-owners Boaz Meridor ([boazm@manofIT.com](mailto:boazm@manofIT.com)) or Sigi Yochay-Wise ([sigiw@manofIT.com](mailto:sigiw@manofIT.com)) at + 972-54-2331203 or + 972-54-2331812 , respectively.

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### ***Autodesk Names CAD Research North American Reseller of the Quarter***

24 April 2009

[Autodesk](#) announced that it has selected [CAD Research](#) as Reseller of the Quarter for North America for the fourth quarter of fiscal year 2009. The designation recognizes the [reseller](#) not only for its sales performance and dedication to customer service, but also for the growth of its operations and its

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investment in the business of selling Autodesk software. Autodesk selected CAD Research from more than 150 resellers throughout North America.

"CAD Research is a true leader in how they partner with customers," said Steven Blum, senior vice president, Americas Sales, Autodesk. "CAD Research makes design software training available at no cost to customers who have been recently displaced as a result of the current economic climate. We're very pleased to honor this pioneering, 17-year channel partner as our reseller of the quarter."

CAD Research has a history of providing great customer service, as more than 85 percent of its business comes from existing customers. They work closely with companies such as Baker Corporation, a professional engineering and consulting company for public and private sector clients worldwide, to provide the training and support they need to create value and provide innovative solutions for their clients in aviation, defense, environmental, facilities, geospatial IT, utilities and infrastructure.

"With CAD Research's solutions, services, and training, Baker Corporation is able to sustain a scalable CAD production environment and provide support to more than 2,400 engineering professionals, resulting in reduced costs and improved efficiencies," said Garry Grafton, Director of CADD Services at Baker Corporation. "The product training our staff has received from CAD Research translates to significant savings for Baker."

"We are honored to accept this recognition for our work with our customers and training initiatives," said Frank Lochner, president, CAD Research. "Our customers are at the heart of our business, and we strive to always go above and beyond in providing customization, system integration, networking, vertical market training and support that meet their unique needs and requirements."

CAD Research credits its strong sales performance this quarter to the 2006 retirement of some Autodesk products, and the 0% financing program offered by Autodesk. CAD Research is also helping to make connections among displaced customers' and assist them in their search for their next job.

Located in Pittsburgh, PA, CAD Research serves companies in the building, construction, infrastructure, GIS and media and entertainment markets. The reseller's customers have gravitated toward new AutoCAD Civil 3D software features as well as its interoperability with Autodesk Revit Architecture in conjunction with Autodesk Navisworks software.

CAD Research is a sponsor of local [Autodesk Civil 3D](#) and Autodesk Revit software user groups, which give the reseller the opportunity to offer insight on Autodesk solutions and share program updates with the Autodesk user base in Pennsylvania. CAD Research is truly seen as a trusted advisor in the local design community.

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## ***CENIT Lauded as IBM FileNet Partner of the Year EMEA 2008***

8 April 2009

For more than 14 years, CENIT has collaborated very closely with IBM FileNet. In many major customer projects, they have been able to demonstrate their consulting and software expertise as it applies to Enterprise Content Management (ECM). Leading international banks and insurance agencies as well as commercial enterprises have long placed their trust in CENIT's technical know-how and process insight.

In addition, CENIT has expanded the IBM FileNet's ECM product family by developing our their own

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software solutions such as the OEM product **IBM FileNet System Monitor** or the digital file **CENIT ECLISO**.

As CENIT Board Member Kurt Bengel points out, "Being awarded the title of 'Partner of the Year EMEA 2008' again is an important motivation for us and signals our customers that in CENIT, they have a competent and experienced partner at their side." CENIT focuses on combining technical expertise with a deep understanding of processes. The award and the continued trust of our many satisfied customers show that this approach and our many years of experience are paying off.

The award is awarded annually to the ValueNet partner who has achieved the highest license sales in EMEA

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## ***CGTech Appoints ImageGrafix Software FZCO as a VERICUT Authorized Reseller for the Middle East***

20 April 2009

**CGTech** announced that ImageGrafix Software FZCO. has joined the company's Reseller network to market and support VERICUT in the Middle East.

ImageGrafix Software FZCO has been a major player in CAD/CAM/CAE systems in the Middle East since 1996, providing engineering solutions and support to manufacturing, fabrication and the assembly industries. ImageGrafix, as a long time partner of Autodesk, also carries several third party CAD/CAM/CAE applications. "We are pleased to be associated with CGTech enabling us to offer state-of-the art Software to CNC Machining companies in the Middle East", says Amir M. Heshmati, Managing Director of ImageGrafix Software FZCO. "VERICUT Software complements ImageGrafix existing solutions and services" added Heshmati, "and its availability in the Middle East is all good news for the industry".

Tony Shrewsbury, CGTech's country manager for the Middle East commented "We are delighted with the extra skills and geographical coverage that ImageGrafix Software FZCO bring to our Reseller network. We have great expectations for the market in the Middle East. "The increased investment in CNC Machinery is driving requests for CNC Verification and Optimization. VERICUT is the clear market leader, and we are delighted to be able to offer it to manufacturing companies in the Middle East..

For further information on ImageGrafix Software FZCO please visit <http://www.image-grafix.com/>

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## ***Clemson University Center and ANSYS Shift Engineering Innovation into High Gear With Preferred Partnership***

21 April 2009

ANSYS, Inc. and **Clemson University** announced an agreement under which ANSYS® software will be deployed as the preferred solution for engineering simulation at the Clemson University Computational Center for Mobility Systems (CU-CCMS). The center's charter is to foster commercial innovation in automotive and other "mobility" industries, such as aviation/aerospace and energy. CU-CCMS works with commercial and government organizations, as well as world-class academic researchers, that want

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to push the boundaries of engineering simulation.

“What makes our center unique is that we operate according to the private sector’s needs: meeting accelerated deadlines; significantly reducing overall design cycle times; focusing on complex challenges that involve entire systems, which require far greater computational resources; and performing high-fidelity analyses that bring together multiple physics in an iterative way to produce an optimal design,” said James Leylek, executive director of CU-CCMS. The center is combining its novel organizational structure with dedicated supercomputing facilities and unique computational methods to help commercial organizations take product innovation to the next level. “We searched for a proven leader in engineering simulation, one that is already highly regarded by industry and well known for outstanding service and support. Making ANSYS our key simulation software partner provides CU-CCMS with the flexible, powerful and seamlessly integrated set of tools we need to focus on innovation and R&D for industry,” Leylek continued.

CU-CCMS will use the multiphysics suite of software from ANSYS — which includes structural, fluid flow, heat transfer, electromagnetics and many other tools — to develop methodologies and demonstrate feasibility of ground-breaking simulations in key technology areas. The suite’s adaptive architecture enables software customization specific to project or industry, and its scalability on high-performance computing (HPC) systems will enable high-fidelity simulations and optimization approaches. For example, such a simulation involves the combined use of CU-CCMS’ in-house models and ANSYS software to account for unsteady, curvature, rotation and transitional boundary layer effects in the prediction of solid–fluid interactions encountered in many automotive, aviation and aerospace applications.

“Our partnership with CU-CCMS is about helping companies take the next step. The expertise and resources at the center will help commercial clients to develop engineering design solutions once thought out of reach and to increase the value of simulation for innovative product design and development,” said Jim Cashman, president and CEO at ANSYS, Inc. “We are looking forward to a research/industry collaboration that will help ANSYS and our customers achieve breakthroughs in Simulation Driven Product Development™.”

Software from ANSYS will be installed on the CU-CCMS high-performance computing facility, which includes a Linux® cluster of Sun® 6250 blades, with peak theoretical performance of 35 Teraflops on more than 3,440 processing cores and 14 TBytes of RAM. This system is carefully balanced to include servers with large RAM for pre- and post-processing, a 20 GBit/sec Infiniband® network by Voltaire, and parallel I/O software and hardware by Panasas®. The combined Sun HPC hardware and ANSYS software installation will allow CU-CCMS to address highly detailed simulations involving complex physical phenomena and explore the use of simulation for design optimization by industry.

The collaboration between CU-CCMS and [ANSYS](#) will be highlighted in further detail today at the Society of Automotive Engineers (SAE) 2009 World Congress in Detroit, Michigan at 2:30 p.m. at the Clemson University booth, #530.

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## ***Free T-FLEX CAD Student Edition is Available for Download***

23 April 2009

Top Systems released T-FLEX CAD 11 Student Edition, the no-cost variant of its professional engineering software, which empowers both students and educators with a complete parametric 2D

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drafting and 3D design technology.

This free product includes all the tools that students and educators need to create highest-quality 2D drawings and 3D CAD models. You can create drawings, surfaces and solids, build complex assemblies, analyze the behavior of models with the build-in express FEA and dynamic analysis modules, render, and perform many other 3D design functions.

"T-FLEX CAD 11 Student Edition makes it easy for students to use professional level design software both in the classroom and at home, and makes it affordable and easy for professors to teach", said Sergey Bikulov, Executive Officer, Top Systems. "We provide a wide set of opportunities for importing drawings and 3D models from other packages to ensure the sustainability of existing projects and curriculums".

T-FLEX CAD 11 Student Edition is not intended for commercial use. Files created within the Student Edition cannot be opened with commercially licensed T-FLEX CAD. There are also a few other limitations that make it unsuitable for commercial use.

## About T-FLEX CAD

T-FLEX CAD from Top Systems is a 3D modeling and 2D drafting software that enables engineering teams to develop products more quickly, at higher quality standards, providing parametric mechanisms combined with Parasolid® based solid modeling. T-FLEX is written for Microsoft® Windows® 2000, XP and Vista operating systems, and is distributed in various languages to customers around the world. Use <http://www.tflex.com/student/> to download the free T-FLEX CAD 11 Student Edition.

## About Top Systems

Founded in 1992, Top Systems (Moscow, Russia) develops and markets MCAD/CAM/CAE/PDM solutions at affordable prices. For more information about the company and its products, including free trials, see <http://www.tflex.com>, [www.topsystems.ru](http://www.topsystems.ru) or contact a reseller. To find international resellers, visit Links page.

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## *itelligence CAD Automation and Order Creation Certified by SAP*

16 April 2009

itelligence AG announces the certification of its it.cadpilot Drawing and Proposal Cockpit 2.0 solution. With this certification, SAP is confirming that, for configurable products, the SAP-Compliant it.cadpilot is integrated into both the drawing production process as well as the offer creation process.

As such, it.cadpilot is globally certified for these applications based on Enterprise Services. The certification also confirms that the fully automated CAD management integrated in it.cadpilot can be added properly as a component to the SAP Solution Manager operating tool.

In 2006, itelligence and ACATEC announced their partnership as part of their collaboration in the marketing of it.cadpilot. With it.cadpilot, the two specialists from two different "worlds" are successfully bundling their experience in the area of variant configuration in order to integrate CAD model generation and automatic Office document creation in SAP Systems efficiently and smoothly. In this project, ACATEC is showing evidence of its distinctive CAD and production configuration background and itelligence is functioning as the highly specialized PLM and ERP consultant with a high level of market penetration in international SAP projects, particularly in machinery and plant

manufacturing.

## **About ACATEC**

ACATEC Software GmbH specializes in the automation of sales and construction processes for production companies in all industries. The company's core product is the POWER CONFIGURATOR. The standard product increases the efficiency of customer acquisition and of customer development and accelerates the generation of process-chain-compatible construction and product data as part of order acquisition and order processing.

## **About itelligence**

itelligence is one of the leading international full-service providers of solutions in support of SAP solutions, employing more than 1,450 highly qualified employees in 17 countries and in five regions (America, Asia, Western Europe, Eastern Europe and Germany/Austria). As a frequently awarded SAP partner itelligence realizes complex projects in the SAP solution-based environment for over 3,000 customers worldwide. In 2006, itelligence obtained gold-level status as an SAP channel partner as part of the SAP PartnerEdge™ program in Germany, and in the U.S. in 2007. The company's services in support of SAP solutions range from consulting and licensing to outsourcing and services to proprietary industry-specific SAP. In 2008, itelligence generated total sales of EUR 216 million.

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## ***LMS and Fraunhofer LBF Announce Strategic Partnership for Tire Modeling and Simulation***

17 April 2009

[LMS](#) and the Fraunhofer Institute for Structural Durability and System Reliability, Fraunhofer LBF, have signed a strategic partnership agreement to accelerate the development of advanced tire simulation solutions. These solutions extend the functionality and applicability of the CDTire software to accurately predict road inputs for vehicle development across car, truck, motorcycle and off-road applications. Combined with LMS' 3D and 1D system modeling and simulation software, LMS Virtual.Lab and LMS Imagine.Lab respectively, CDTire users will be able to frontload realistic performance simulations of their new vehicle designs to master critical brand attributes like comfort, NVH and durability – months before the first prototypes are available.

“We are confident that our combined knowledge and experience, together with Fraunhofer's proven capability to develop fundamental technology improvements in mechanical system simulation, will allow us to further accelerate the development of tire simulation solutions and obtain even more realistic road load input data to support all stages of vehicle engineering,” commented Prof. Holger Hanselka, Managing Director of Fraunhofer LBF in Darmstadt, Germany.

“The automotive industry is looking for advanced solutions in tire modeling and simulation to frontload road input predictions into new car designs. Our partnership with Fraunhofer LBF will allow us to further expand the CDTire software. Together with our complete portfolio of functional performance simulation applications, this solution will enable the automotive industry to optimize new vehicle structures, including the optimization of controller settings in active vehicle systems,” added Dr. Jan Leuridan, CTO, LMS International.

The new solutions for tire modeling and simulation will be based on LMS' CDTire product. As part of the agreement, Fraunhofer has taken over the rights and responsibility for CDTire and will further develop and enhance this technology. This includes extensions to accurately simulate innovations in

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recent tire technology, like the introduction of run-flat tires and extremely low-aspect-ratio tires, as well as breakthrough technology for real-time tire simulation to support Hardware-in-the-Loop (HIL) engineering. Additionally, the tire modeling and simulation technology will be expanded to include motorcycle, agricultural, construction and commercial vehicle tires. Using the latest tire testing techniques as well as underlying parameterization algorithms, Fraunhofer LBF will develop new methods to increase productivity in regards to the necessary tire parameter identification and model validation. LMS International will continue to globally market and offer the next-generation CDTire solutions, embedded in its LMS Virtual.Lab and LMS Imagine.Lab product suites.

## **About Fraunhofer LBF**

Fraunhofer LBF can look back on more than 70 years of experience and tradition in structural durability as one of 56 operating institutes of the Fraunhofer Gesellschaft. Structural durability, system reliability and adaptronics are the designated core competencies. A strong 230-member team including scientists from the associated Competence Center for System Reliability and Machine Acoustics SzM at the Technical University of Darmstadt, the engineers evaluate and realize tailored solutions for all safety components – from the material to the system and from the idea to the product.

With the close interlocking of experimental and numerical methods, Fraunhofer engineers are able to create particularly reliable tools. In addition to 13,000 square meters of multifunctional, experimental test and laboratory sites, the engineers also apply virtual test environments to reduce development time. The Fraunhofer LBF test laboratory is accredited according to DIN EN ISO-IEC 17025:2005 and applies a management system certified according to DIN EN ISO 9001:2001. The service offering includes design and construction, safety strategies, reliability concepts, noise and vibration reduction and LBF® products. The results of Fraunhofer LBF research increase the product lifecycle and serviceability, and enhance operational safety. Fraunhofer customers come from a variety of industries from automobile and commercial vehicle construction, track vehicle technology, shipbuilding, aerospace, mechanical and plant engineering, energy technology as well as environmental and healthcare.

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## ***Magma Congratulates Winners of MUSIC China "Best Paper" Awards -- Prototyping, Floorplanning and Physical Implementation of Complex Chips Among Popular Topics***

21 April 2009

Magma® Design Automation Inc. announced the winners of the MUSIC China "Best Paper" awards. MUSIC (Magma Users Summit on Integrated Circuits) was held in Shanghai April 9.

The top paper award went to Lei Zhang of NVIDIA for his paper titled "Floorplanning a Complicated Partition with the Talus® Tcl Interface." The second place award went to Koki Tsurusaki of Renesas Technology for his paper titled "Prototyping a Large-Scale System-on-a-Chip with a Complex Floorplan and Massive Amount of Hard Macros." Third place went to Ding-shan You of the Institute of Computing Technologies, Chinese Academy of Sciences for his paper titled "The Physical Implementation of a Complex Switch ASIC for a High-Performance Parallel Computing System."

"Since establishing operations in China in 2002, Magma has gone from being practically unknown to being recognized as a leading EDA tool vendor in this region," said Haiwei Chen, managing director of Magma China. "To help the China IC design industry continue to mature and grow, designers must participate in forums that enable them to share expertise and gain knowledge. With an impressive

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number of attendees and a technically rich program, MUSIC China provided a forum that benefited Magma users and the design community."

Magma users who missed the conference can access the MUSIC papers and presentations via MOLTEN, Magma's online technical support. For more information, visit <http://www.magma-da.com/MUSIC>.

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## ***SimuTech Support™ - Unparalleled ANSYS FEA and CFD Technical Support***

24 April 2009

SIMUTECH GROUP announced the launch of SimuTech Support™, "technical support" for its ANSYS FEA (finite element analysis) and CFD (computational fluid dynamics) customers. In reviewing what most CAD and CAE providers consider as "technical support", SimuTech Group realized that the level of "technical support" it provides its ANSYS FEA and CFD customers far exceeds the industry standard. To distinguish this higher level, SimuTech Group has formalized its model with SimuTech Support.

SimuTech Support addresses two key issues that are often lacking in supporting FEA and CFD tools. First, most CAE vendors view "technical support" as a cost sink and encourage their staff to "close out" calls as fast as possible. The support agent is incented to give a quick answer, which does not ensure the correct resolution to the customer's core issue.

Second, to minimize costs, vendors may also use junior staff for support. They may be trained to use the software interface, but the lack of practical experience does not allow them to fully understand any associated engineering aspects. Given that technical judgment plays a key role in resolving support issues, it is imperative that the engineering aspects always be considered.

The SimuTech Support model addresses both of these issues and is a commitment to its customers in providing the best level of support possible.

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

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## ***Transcat PLM is Member of the ProSTEP iViP Association***

23 April 2009

[Transcat PLM GmbH](#), founded in 1987, joins the ProSTEP iViP Association.

Dr. Paolo Santarelli, member of the management board, is hoping for an additional industry impetus for his company, i.e. for their product portfolio on quality control in PLM processes. „We are looking forward to a vivid exchange of information and to bringing our expertise to association projects” says Dr. Santarelli.

Transcat PLM GmbH is a 100% subsidiary of Dassault Systèmes and has become an established specialist and provider of Product Lifecycle Management (PLM) solutions, based on Dassault Systèmes' solutions CATIA, ENOVIA, DELMIA, SIMULIA and 3DVIA. From the beginning however

Transcat PLM has been more than just a reseller of Dassault's product range, and rather sees itself as a solution provider. Today more than 1.500 customers worldwide use products from Transcat PLM for safeguarding product quality and/or complying with legal requirements in vehicle construction.

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The all-in solutions, that Transcat PLM offers, as well as their practical support concepts assist customers with the optimization of their processes and implementation of PLM strategies. Well-known companies from the automobile, aerospace and consumer products industries as well as from engine and plant construction are among their customers.

Contact:

Transcat PLM GmbH

A Dassault Systèmes Company

T: 07 21 / 9 70 43-0

E-Mail: [mail@transcat-plm.com](mailto:mail@transcat-plm.com)

## About the ProSTEP iViP Association

The ProSTEP iViP Association is an international branch-specific community comprising leading companies in the automotive and aerospace industries, system vendors and research institutes. The aim of the ProSTEP iViP Association is to find solutions for the challenges facing the manufacturing industry as a result of networked collaboration in a worldwide development network. The Association's five main areas of focus reflect this approach: process management, system integration, product data standardization, engineering collaboration and knowledge transfer.

The ProSTEP iViP Association is headquartered in Darmstadt, Germany, and was founded in October 1993 by 38 industrial companies and a number of system vendors as part of the German STEP initiative. Members of the ProSTEP iViP Association currently include about 200 companies and organizations from 17 nations.

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## *University of California Receives \$57 Million In-Kind Software Grant from Siemens PLM Software*

21 April 2009

[Siemens PLM Software](#) announced an in-kind software grant with a commercial value of US \$57 million to the University of California's, Center for Information Technology Research in the Interest of Society (CITRIS). The in-kind investment, provided through the [Siemens PLM Software's GO PLM™ \(Global Opportunities in Product Lifecycle Management\) program](#), includes engineering software, instructor training and academic support that will be available to students and staff throughout four of the university's campuses: Berkeley, Davis, Merced and Santa Cruz.

"This generous investment will boost our students' design skills and give them a competitive edge in the engineering work force," said S. Shankar Sastry, dean of engineering at the University of California at Berkeley. "We're especially excited to use it in design project courses, where student groups create comprehensive engineering solutions to problems in health care, transportation, manufacturing and commercial environments."

"Siemens PLM Software's [NX™ software](#) is a leading finite element analysis, meshing and visualization solution for a wide variety of modeling in all fields of engineering, architecture, and applied math and physics, including geophysics," said Paul Wright, director of CITRIS and a professor in the Mechanical Engineering Department at the University of California at Berkeley. "We are extremely grateful to Siemens PLM Software for their generous gift. More than one thousand students, research staff and

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professors across the four-campus Institute of CITRIS are expected to use this extraordinary facility."

"Siemens PLM Software strives to develop and nurture partnerships that provide significant value for academic institutions as well as youth and displaced worker development programs throughout our global communities," said Helmuth Ludwig, president, Siemens PLM Software. "We look forward to continuing to work closely with CITRIS to build on the technical stature of engineering education and impact the University of California's ability to develop top-notch engineers and technologists."

Siemens Corporate Research President and CEO Paul Camuti, whose team was instrumental in the Siemens/University of California at Berkeley relationship, said the new research and training facilities validate the success of Siemens' overall strategy of open innovation. "This is an example of what two leading entities can achieve when they explore, create, and innovate together," said Camuti. "And, I can say that we are very pleased with the prospect of a relationship like this one that opens up a wide range of collaborative opportunities."

## **GO PLM Program**

GO PLM provides PLM technology to more than 1,000,000 students yearly at nearly 10,200 global institutions, where it is used at every academic level – from middle schools to graduate engineering research programs. For more information on GO PLM and the partners and programs it supports visit [www.siemens.com/partners/goplms](http://www.siemens.com/partners/goplms).

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## Events News

### ***Delcam Supports Broad Range of Machine Tools at Ontario Open House***

24 April 2009

Delcam will support the four leading Machine Tool Distributors in Ontario – Elliott Matsuura, Ferro Technique, SST and EMEC – at their annual Open House event in Mississauga, Ontario, on May 13th and 14th. With over 50 CNC machines on display, this two day Open House event will give visitors a chance to compare the latest and greatest in CNC technology by many of the world's premier builders; GF Agie Charmilles, Tornos, Makino, Mikron, Okuma, Doosan, Matsuura, Muratec, Metris, Toyoda, Brother, Tsugami, Chiron, roku-roku, Agma, sister and Nakamura-Tome.

With its broad range of CAM software, Delcam will be able to showcase solutions for all of these advanced machine tools. The Delcam family comprises PowerMILL for high-speed and five-axis machining, FeatureCAM for feature-based programming, and PartMaker for Swiss-type lathes and turn-mill equipment. This broad coverage is one of the reasons why Delcam is consistently ranked as a leading global specialist supplier of NC software and services by US analysts CIMdata.

It is also an important factor for machine tool companies looking for a CAM partner, according to Mark Cadogan, Delcam's Vice President for Sales in Canada. "These companies know that Delcam can provide CAM software to cut any part in any material on virtually any CNC machine," he claimed. "It is much easier for them to deal with a single supplier like Delcam, rather than having to use different CAM partners across their ranges of equipment."

"They also know that Delcam has the largest CAM development team in the industry," he added. "This means that we can develop extra functionality for any new machines faster than other suppliers."

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“Another benefit of working with Delcam is the extensive support that is provided to both customers and machine tool suppliers,” he said. “Furthermore, we have the financial resources to ensure that this high level of support can be maintained during the current downturn.”

The strength of Delcam’s development team will be demonstrated during the Open House in the latest versions of the company’s CAM range. The new release of PowerMILL offers a more complete solution for complex machining operations, together with more control for experienced machinists that know exactly how they wish to machine a particular part. The program also includes a range of enhancements to existing functionality to enable both faster programming and faster machining.

FeatureCAM 2009 also incorporates enhancements across its complete range of functionality. An important focus has been increased options for more complex machines, such as mill-turn equipment, and four- and five-axis mills. This will allow users to tackle more sophisticated parts than could be programmed before. Developments have also continued increase the efficiency of the more fundamental machining operations, including turning and three-axis milling.

Major highlights of the new release of PartMaker include a revamped and more productive user-interface, improved capabilities for programming directly on solid models and more realistic machine simulation for the increasingly-complex machine architectures of today’s multi-axis turn-mill centres and Swiss-type lathes. The enhanced user interface will make PartMaker users even more productive in programming their CNC equipment, while offering new users an even easier to learn, more capable CNC programming platform.

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## ***Delcam to Support UK launch of DMG’s ECOline***

22 April 2009

Delcam will support the UK launch of DMG’s new ECOline of machine tools by providing CAM programs for this latest addition to the DMG range. The launch event will take place at the Luton base of DMG (UK) on 29th April.

“In recent years, we have focussed on the strengths of DMG machines for five-axis and other more complex operations, and given less promotion to our broader range of equipment,” admitted Managing Director Richard Watkins. “The ECOline range reinforces DMG’s commitment to also provide high-technology and high-productivity manufacturing centres at affordable prices for more conventional production.”

Delcam Marketing Manager, Peter Dickin, said that a similar emphasis had been seen in recent releases of the company’s PowerMILL software. “The latest developments in five-axis machining always receive the most attention in any new version,” he commented. “Enhancements to more routine three-axis strategies often don’t get the promotion they deserve, even though they are no less important to many users.”

For example, the latest version, PowerMILL 9, included new strategies for face milling, chamfer milling, and 2D pocketing and profiling. New methods were added to generate three-axis toolpaths based on any 3D curve, making it easier both to create the required 3D curve and to drive the cutter along it. In addition, 2D cutter compensation was improved for both full radius operation and when using wear compensation.

The launch event will also feature direct access to Finance for Industry’s knowledge of the latest

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financing opportunities for the manufacturing and engineering sector. This will cover potential cost savings, wise investment planning and flexible finance options, all geared to securing future productivity in tough economic times.

For further information on the launch event and to register, please contact Dianne Taylor on 01582 570661 or email [dianne.taylor@gildemeister.com](mailto:dianne.taylor@gildemeister.com).

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## ***ESPRIT 2009, by DP Technology, to be Exhibited at the Northwest Machine Tool Expo, Portland, Ore., May 5-7***

21 April 2009

ESPRIT® 2009 will be on display at the Northwest Machine Tool Expo, to take place at the Oregon Convention Center in Portland, Ore., May 5-7.

Touted as the “premier regional event for the machine tool, industrial and manufacturing industries,” the expo, currently in its 16th year, is both an exhibition of cutting-edge machining processes and a conference featuring seminars that highlight the newest technologies and applications.

Located at booth No. 838, ESPRIT will be one of the solutions on display. Visitors to the booth will have access to firsthand knowledge from ESPRIT representatives, who will be available for questions about the newest functionality in the software and who will be conducting one-on-one demonstrations.

[ESPRIT](#) 2009 places a heavy emphasis on integrated machining, the use of milling and, or turning in any combination on any type of machine tool — Swiss-turn, mill-turn, B-axis machines, etc. Therefore, most improvements to the software are to the benefit of all programmers.

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## ***Leading Machine-Tool Company Mori Seiki Co., Ltd. to Sponsor ESPRIT World Conference 2009***

16 April 2009

[DP Technology](#), creator of ESPRIT®, announced that [Mori Seiki USA](#), a leading machine tool manufacturer, will be a primary sponsor of the ESPRIT World Conference (EWC) 2009, slated to take place May 12-15 in San Diego, Calif.

Hosted each year by DP Technology for its ESPRIT community, the ESPRIT World Conference offers a comprehensive suite of product training courses, enlightening and motivational business presentations, exposure to the direction of future product developments, and networking opportunities via hosted events throughout the week-long event. EWC 2009 will mark the public introduction of ESPRIT 2010, ESPRIT Mold v11, and ESPRIT SMINNC v2.

EWC is attended annually by more than 325 members of the ESPRIT community, including resellers, end-users and business partners, and attracts participants from around the world. The conference grants attendees the important role of providing vital guidance and feedback that is used to shape future product developments.

The latest versions of ESPRIT software are the result of a balanced effort focusing on both the shorter terms needs of existing customers and the longer term direction of the metal-working community. A significant number of innovative technologies in the areas of 3- and 5-axis milling, feature recognition

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and user interface have been introduced with the new versions, as well as a long list of productivity enhancing features for milling, turning and wire EDM part programming. ESPRIT is designed to run on both the Microsoft Windows XP and Microsoft Vista operating systems.

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## ***SAP Customers and Partners Convene at SAPPHIRE® 2009 to Share “Strategies for Success in the New Reality”***

20 April 2009

SAP customers, partners and industry experts worldwide will gather May 11-14 in Orlando, Florida for [SAPPHIRE® 2009 Orlando](#) a customer conference hosted by [SAP AG](#). Under an event theme of "See Your Way Clear: Strategies for Success in the New Reality," SAPPHIRE will explore how companies can achieve transparency and efficiency in every area of their operations to be best-run businesses in today's challenging economic environment. Attendees at the annual event will learn how to harness the power of SAP® solutions and SAP® BusinessObjects™ software to attain the insight needed to run lean operations, capture greater market share and gain transparency in their operations. SAP and the Americas' SAP Users' Group (ASUG) are co-locating their events in Orlando, where the 2009 ASUG Annual Conference also takes place May 11-14.

The SAPPHIRE event will feature more than 660 presentations and training sessions, along with more than 135 interactive demo stations arranged by solution and industry area and 200 exhibiting partners on the conference floors. SAP customers delivering presentations at SAPPHIRE include [Caterpillar](#), [Haworth](#), [Joerns Healthcare, Inc.](#), [Securit](#) and [Wolverine World Wide](#).

The event will feature three keynote presentations, from Léo Apotheker, co-CEO of SAP AG; from Jim Hagemann Snabe, member of the SAP Executive Board leading the Business Solutions & Technology organization, and Bill McDermott, member of the SAP Executive Board leading Global Field Operations; and from Hasso Plattner, co-founder and chairman of the Supervisory Board, SAP. Keynotes will focus on how technology enables companies to derive increased insights, visibility and value-both of their own operations and those of their partner networks, ultimately allowing them to capitalize on strategic opportunities to increase profitability.

### **SAP Users and Customers Unite in Orlando**

ASUG, the America's SAP Users' Group, will be holding its ASUG Annual Conference from May 11-14, 2009, also at the Orange County Conference Center in Orlando, to coincide with SAPPHIRE. As in previous years, the co-location of these two ecosystem events gives corporate executives and technology professionals the opportunity to share best practices with other customers, gain new insights on maximizing existing SAP software investments, and explore ways in which a new SAP application or service can help companies transform their organizations. The events are expected to bring together more than 10,000 current and prospective SAP customers, partners, users and employees to the Orlando area.

"This year's SAPPHIRE event brings together SAP customers and partners seeking to maximize IT investments with best practices that can directly impact their businesses," said Marty Homlish, chief marketing officer and corporate officer, SAP. "The need for organizations to gain clarity in all aspects of their operations is heightened in today's business environment. The focus this year on 'Strategies for Success in the New Reality' provides attendees the opportunity to address the ways SAP software can facilitate becoming and remaining a best-run business in a challenging economic climate."

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Further SAPPHIRE 2009 program information can be found at <http://www.sap.com/about/events/sapphire>. To register for SAPPHIRE 2009 Orlando, please visit <http://www.sapsapphire.com/usa2009>. Additional ASUG conference information is available at <http://www.asugannualconference.com>. To register, please visit <https://www.sapandasug.com/ASUG/AnnualConference2009>. This year, join the SAPPHIRE conversation via Twitter at #sapphire09.

## About ASUG®

The Americas' SAP Users' Group (ASUG®) is an independent, volunteer-run organization that delivers benefits to members of the SAP ecosystem by being the preferred source for experience-driven education, peer networking, and the most valued voice for SAP customer influence. Drawing on the real experiences of its members to deliver real advantage from both a business and technical perspective, ASUG maintains its unique position by serving the needs of the entire SAP ecosystem. (<http://www.asug.com>)

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## ***Siemens PLM Software Executive to Moderate MRO Transformation Panel at MRO Military Symposium 2009***

20 April 2009

[Siemens PLM Software](#) announced that Timothy Nichols, managing director of [Aerospace and Defense Global Marketing](#) for Siemens PLM Software, will moderate a panel session entitled “Next Generation Performance-Based Contracting” at this week’s [AVIATION WEEK MRO Military Symposium 2009](#).

The panel session, focused on transforming the business model and processes behind sustaining new weapon system acquisitions, will take place on April 22 at 3 p.m. at the Gaylord Texan Resort and Convention Center in Grapevine, Texas.

“The issue of military logistics transformation is critical to an organization’s future success,” said Nichols. “Military original equipment manufacturers (OEM) as well as government fleet-support enterprises are increasingly recognizing the need to transform their [maintenance, repair and overhaul \(MRO\)](#) operations from a disparate, manual process to a more disciplined, automated approach that involves a single digital platform across the total support enterprise to meet performance-based operational commitments, boost workforce productivity and manage total cost of ownership.”

The 2009 MRO Military Symposium brings together senior military leaders responsible for support of the Department of Defense’s (DoD) weapon systems to join in strategic planning sessions and share best practices, lessons learned and emerging ideas or technologies in the field of MRO. For more information about the 2009 MRO Military Symposium, visit:

<http://www.aviationweek.com/events/current/mil/index.htm>.

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## Financial News

### ***AVEVA Group plc Period End Trading Update***

16 April 2009

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AVEVA Group plc ("AVEVA" or the "Company") announced a trading update following the end of the financial year to 31st March 2009.

## **Outcome of 2008/09 financial year**

Overall the Company made excellent progress during the year. As a result, the Board expects that results will be in line with current market forecasts, which anticipate significant growth over the prior year and another record performance. Recurring revenue will represent approximately 55% of total revenue and the balance sheet remains strong with expected net cash of over £120 million at the year end, an increase of 45% over the prior year.

## **Outlook for 2009/10 financial year**

The outcome for 2008/09 has been achieved despite increasing turbulence across the Company's end markets in recent months. Funding constraints have been causing the delay of major new projects and there has been closer scrutiny of capital expenditure budgets for the 2009/10 financial year.

The Board has conducted a review of its major end markets to assess the impact of these trends:-

**Plant:** The fundamental growth drivers remain in place, although continuing oil price uncertainty is expected to lead to the deferral of some capital expenditure commitments until greater price stability returns;

**Power:** Whilst there has been some deferral of new projects primarily reflecting funding constraints, the pipeline for new build power stations remains robust and the demand for nuclear reactors continues to accelerate;

**Marine:** The dramatic decline in new build ship orders and concerns over levels of funding available within the existing ship order backlog means that new licence sales in the marine sector are likely to be significantly down on prior years.

The regional impact of these trends is variable. There is a good pipeline of capital projects in CIS and Latin America. However we expect this to be out-weighted by reductions in other regions.

As a result of these factors, we currently anticipate that revenue from initial licence fees will decline in 2009/10 by between 30% and 40% accompanied by a marginal decline in rental fees and a smaller than expected increase in annual fees. Recurring income from annual and rental fees as a proportion of total revenue will therefore increase materially in 2009/10.

The impact of this revenue decline will only be partly mitigated by increasing revenue from AVEVA NET, where purchases tend to be funded from maintenance expenditure.

## **Restructuring**

Given the outlook for 2009/10, the Company is implementing a restructuring programme. This will ensure AVEVA is better equipped to address the difficult trading environment whilst also selectively investing to exploit growth opportunities. The key elements of this are:-

Combining the two European based reporting structures of Central, Eastern and Southern Europe (CES) and Western Europe, Middle East and Africa (WEMEA) under one Europe, Middle East and Africa (EMEA) structure; and,

Reducing headcount across the Company by approximately 10%.

These initiatives will be implemented to ensure resources remain focussed on customers' needs together

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with increased emphasis and investment in the AVEVA NET operations. The Company will also continue to invest in growth markets, particularly in South America and CIS.

These initiatives will result in annualised cost savings of approximately £5 million. The exceptional costs of implementing these initiatives will be around £3.5 million, which will all be incurred in the first half of 2009/10.

The Company's technology, industry knowledge, geographical presence, understanding of its customers' developing requirements and strong net cash position provide a sound operating and financial platform for it to continue to deliver its strategy in more uncertain trading conditions.

### **AVEVA NET**

AVEVA NET has a good pipeline of potential contracts reflecting increasing demand for Project Lifecycle Management ("PLM") as operators focus on maintenance efficiency. The Company has a market leading offering in its end markets in this high growth market. In order to fully exploit these opportunities, resources will be increased to support enhanced sales capabilities and customer service. It is anticipated that AVEVA NET will achieve significant growth in 2009/10.

Commenting on the announcement Richard Longdon, Chief Executive, said: "AVEVA is a highly profitable and cash generative business and is continuing to execute well. 2008/09 has been a record year for the Company despite increasingly difficult trading conditions. The re-shaping of the business is designed to ensure that we have an appropriate structure for more difficult market conditions whilst continuing to invest for the future."

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### ***EMC Reports First-Quarter 2009 Financial Results***

23 April 2009

EMC Corporation reported first-quarter 2009 revenue of \$3.15 billion, reflecting solid revenue results in a challenging global economic environment. Through its continued emphasis on operational efficiency, in the first quarter EMC generated operating cash flow of \$864 million and free cash flow of \$681 million, all contributing to record cash and investments of \$9.8 billion.

First-quarter consolidated revenue of \$3.15 billion declined 9.2% compared with the year-ago period, or 5.7%, adjusting for the impact from currency. First-quarter 2009 GAAP net income attributable to EMC was \$194.1 million or \$0.10 per diluted share, compared with \$251.6 million or \$0.12 per diluted share for the first quarter of 2008. First-quarter 2009 non-GAAP(1) net income attributable to EMC was \$323.7 million or \$0.16 per diluted share, compared with \$460.1 million or \$0.22 per diluted share for the first quarter of 2008.(2)

Joe Tucci, EMC Chairman, President and Chief Executive Officer, said, "Within a very tough economy, EMC executed soundly in the first quarter, leveraging the unique power of our highly complementary information infrastructure and virtual infrastructure strategies. As we look to the balance of 2009, we believe the global IT spending environment has reached or is very near the bottom. We expect IT spending to improve in the second half of 2009 as customers will have better budget visibility, be further through their own restructuring programs and broader stimulus packages should be underway."

Tucci continued, "Looking ahead, EMC will advance our place among our customers' most strategic IT providers as they take advantage of trends shaping the future of IT such as the virtual data center and

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cloud computing. As a technology-driven company, we will continue to use our financial strength to remain aggressive with R&D, extend our technology leadership, forge even tighter and deeper strategic alliances and deliver customers even more advanced solutions and services for their most strategic IT initiatives."

David Goulden, EMC Executive Vice President and Chief Financial Officer, said, "EMC's first-quarter results reflect the resiliency of our business in a very challenging global economy. We executed well on our cost reduction plans during the quarter and maintained disciplined expense control, which resulted in decent profitability and excellent free cash flow, while continuing investments to further enhance our product and services offerings and expand our customer reach."

Goulden continued, "We are taking additional near-term cost reduction actions that will save EMC an additional \$100 million in 2009. We now expect to reduce EMC's 2009 Information Infrastructure costs by approximately \$450 million from our 2008 spend, increasing to approximately \$500 million in 2010. We believe these near- and longer-term actions to improve our effectiveness and efficiency will help EMC ride out this period of economic uncertainty and put us in a position of even greater strength when conditions improve."

EMC's best estimate is that 2009 global IT spending will decline as a percentage in the very-high-single-digit to very-low-double-digit range compared with 2008. EMC also expects second-quarter 2009 global IT spending will probably be flat compared with the first quarter of 2009, and the second half of 2009 will be stronger than the first half of the year.

## **First-Quarter Highlights**

EMC's Information Infrastructure business revenue for the first quarter - comprising Information Storage, RSA Security, and Content Management & Archiving - was \$2.7 billion.

VMware, which is majority-owned by EMC, contributed first-quarter revenue of \$470.4 million, an increase of 7.4% compared with the year-ago quarter.

EMC consolidated first-quarter revenue from the United States was \$1.64 billion and represented 52% of total first-quarter revenue. Revenue from EMC's operations outside of the United States was \$1.51 billion and represented 48% of total first-quarter revenue.

## **Certain Items Impacting 2009**

The following statements are based on current expectations. These statements are forward-looking, and actual results may differ materially. These statements do not give effect to the potential impact of mergers, acquisitions, divestitures or business combinations that may be announced or closed after the date hereof. The items set forth under "Certain Items Impacting 2009" in EMC's news release dated January 27, 2009 still represent EMC's current expectations unless specifically superseded by these statements.

All dollar amounts and percentages set forth below should be considered to be approximations.

The following items are expected to impact EMC's 2009 results:

-- In 2009, savings from cost reduction actions are expected to reduce the company's 2008 cost base by \$450 million, up \$100 million from the company's previous estimate of \$350 million. The savings are expected to be weighted toward the latter half of 2009.

-- Due to pressure on IT spending, EMC anticipates lower gross and operating margins for 2009 compared with 2008.

## CIMdata PLM Industry Summary

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-- Operating profitability should show signs of improvement from first-quarter 2009 levels in the second half of 2009.

-- VMware's contributions to consolidated diluted earnings per share are expected to be \$0.02 lower in the second quarter of 2009 compared with the first quarter of 2009.

Due to the current macro-economic conditions and limited visibility, EMC is not offering revenue, EPS or other financial outlook at this time.

-- EMC will host its 2009 first-quarter earnings conference call today at 8:30 a.m. ET, which will be available on EMC's web site at <http://www.emc.com/about/investor-relations/index.htm>

-- Additional information regarding EMC's financials, as well as a webcast of the conference call, will be available at 8:30 a.m. ET at <http://www.emc.com/about/investor-relations/index.htm>

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### ***IBM Reports 2009 First-Quarter Results***

21 April 2009

- Diluted earnings of \$1.70 per share, up 4 percent;
- Reiterates full-year 2009 earnings of at least \$9.20 per share;
- Free cash flow of \$1 billion, up \$450 million;
- Gross profit margin of 43.4 percent, up 1.9 points;
- Net income of \$2.3 billion, down 1 percent; net margin up 1.1 points;
- Revenue of \$21.7 billion, impacted by strong U.S. dollar, down 11 percent, down 4 percent adjusting for currency;
- Software pre-tax margin up 2.9 points; income up 5 percent;
- Global Services pre-tax margin up 1.6 points; income up 4 percent;
- Total services signings up 10 percent, longer-term signings up 27 percent, both adjusting for currency;
- 16 services deals greater than \$100 million;
- Growth markets revenue up 4 percent adjusting for currency;
- Returned nearly \$2.5 billion to shareholders in dividends and share repurchases.

IBM (nounced first-quarter 2009 diluted earnings of \$1.70 per share compared with diluted earnings of \$1.64 per share in the first quarter of 2008, an increase of 4 percent as reported. First-quarter net income was \$2.30 billion compared with \$2.32 billion in the first quarter of 2008, a decrease of 1 percent. Total revenues for the first quarter of 2009 of \$21.7 billion decreased 11 percent (4 percent, adjusting for currency) from the first quarter of 2008.

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"IBM continued to perform well in a very difficult economic environment. This was due to our long-term strategic focus: shifting into software and services, divesting of commodity businesses, and creating solutions that help clients reduce cost and conserve capital. At the same time we have a disciplined approach to cost and expense management giving us a strong financial position," said Samuel J. Palmisano, IBM chairman, president and chief executive officer.

"We are well-positioned to continue to move aggressively and leverage our strong cash performance to make the most of the opportunities that arise, including smarter planet initiatives and other strategic options. We remain ahead of pace for our 2010 roadmap of \$10 to \$11 per share."

IBM said that it expects full-year 2009 earnings of at least \$9.20 per share.

From a geographic perspective, the Americas' first-quarter revenues were \$9.3 billion, a decrease of 7 percent (3 percent, adjusting for currency) from the 2008 period. Revenues from Europe/Middle East/Africa were \$7.2 billion, down 18 percent (3 percent, adjusting for currency). Asia-Pacific revenues decreased 6 percent (3 percent, adjusting for currency) to \$4.8 billion. OEM revenues were \$461 million, down 34 percent compared with the 2008 first quarter. Revenues from the company's growth markets organization decreased 12 percent (up 4 percent, adjusting for currency) and represented 17 percent of geographic revenues.

Total Global Services revenues decreased 10 percent (2 percent, adjusting for currency). Global Technology Services segment revenues decreased 10 percent (1 percent, adjusting for currency) to \$8.8 billion. Global Business Services segment revenues decreased 10 percent (4 percent, adjusting for currency) to \$4.4 billion. IBM signed services contracts totaling \$12.5 billion, at actual rates, a decrease of 1 percent (up 10 percent, adjusting for currency), including 16 contracts greater than \$100 million. Shorter-term signings were \$5.5 billion, a decrease of 14 percent (5 percent, adjusting for currency). Longer-term signings increased 14 percent (27 percent, adjusting for currency) to \$7.0 billion. The estimated services backlog at March 31 was \$126 billion at actual rates compared with \$130 billion at year-end 2008.

Revenues from the Software segment were \$4.5 billion, a decrease of 6 percent (up 2 percent, adjusting for currency) compared with the first quarter of 2008; pre-tax income increased 5 percent. Revenues from IBM's middleware products, which primarily include WebSphere, Information Management, Tivoli, Lotus and Rational products, were \$3.6 billion, a decrease of 5 percent (up 4 percent, adjusting for currency) versus the first quarter of 2008. Operating systems revenues of \$492 million decreased 7 percent (flat, adjusting for currency) compared with the prior-year quarter.

For the WebSphere family of software products, which facilitate customers' ability to manage a wide variety of business processes using open standards to interconnect applications, data and operating systems, revenues increased 5 percent year over year. Revenues from Information Management software, which enables clients to leverage information on demand, decreased 8 percent. Revenues from Tivoli software, infrastructure software that enables clients to centrally manage networks including security and storage capability, decreased 1 percent, and revenues from Lotus software, which allows collaborating and messaging by clients in real-time communication and knowledge management, decreased 12 percent. Revenues from Rational software, integrated tools to improve the processes of software development, increased 9 percent.

Revenues from the Systems and Technology segment totaled \$3.2 billion for the quarter, down 23 percent (18 percent, adjusting for currency). Systems revenues decreased 22 percent (15 percent, adjusting for currency). Revenues from the converged System p products decreased 2 percent compared with the 2008 period. Revenues from System z mainframe server products decreased 19 percent

# CIMdata PLM Industry Summary

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compared with the year-ago period. Total delivery of System z computing power, which is measured in MIPS (millions of instructions per second), increased 18 percent. Revenues from the System x servers decreased 27 percent. Revenues from System Storage decreased 20 percent, and revenues from Retail Store Solutions decreased 38 percent. Revenues from Microelectronics OEM decreased 36 percent.

Global Financing segment revenues decreased 9 percent (flat, adjusting for currency) in the first quarter to \$578 million.

The company's total gross profit margin was 43.4 percent in the 2009 first quarter compared with 41.5 percent in the 2008 first-quarter period, led by improving margins in services and software.

Total expense and other income decreased 9 percent to \$6.3 billion compared with the prior-year period. SG&A expense decreased 6 percent to \$5.3 billion including workforce rebalancing charges of approximately \$265 million. RD&E expense of \$1.5 billion decreased 6 percent compared with the year-ago period. Intellectual property and custom development income decreased to \$268 million compared with \$274 million a year ago. Other (income) and expense was income of \$304 million including a net gain of \$298 million relating to the sale of certain elements of the company's logistics process, compared with income of \$125 million from a year ago. Interest expense decreased to \$136 million compared with \$178 million in the prior year.

IBM's tax rate in the first-quarter 2009 was 26.5 percent compared with 27.5 percent in the first quarter of 2008, a decline of 1.0 point.

The weighted-average number of diluted common shares outstanding in the first-quarter 2009 was 1.35 billion compared with 1.41 billion shares in the same period of 2008. As of March 31, 2009, there were 1.32 billion basic common shares outstanding.

Debt, including Global Financing, totaled \$31.0 billion, compared with \$33.9 billion at year-end 2008. From a management segment view, Global Financing debt decreased \$1.0 billion from year-end 2008 to a total of \$23.4 billion at March 31, 2009, resulting in a debt-to-equity ratio of 7.0 to 1. Non-global financing debt totaled \$7.6 billion, a decrease of \$1.9 billion since year-end 2008, resulting in a debt-to-capitalization ratio of 42.4 percent from 48.7 percent, which reflects the adoption of SFAS No. 160 referenced in the Consolidated Statement of Financial Position.

IBM ended the first quarter of 2009 with \$12.3 billion of cash on hand and generated free cash flow of \$1.0 billion, up \$450 million year over year, excluding Global Financing receivables. The company returned nearly \$2.5 billion to shareholders through \$675 million in dividends and \$1.8 billion of share repurchases. The balance sheet remains strong, and the company is well positioned to take advantage of opportunities.

## **Presentation of Information in this Press Release**

In an effort to provide investors with additional information regarding the company's results as determined by generally accepted accounting principles (GAAP), the company has also disclosed in this press release the following non-GAAP information which management believes provides useful information to investors:

IBM Results –

showing non-Global Financing debt-to-capitalization ratio;

adjusting for free cash flow;

adjusting for currency (i.e., at constant currency).

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The rationale for management's use of non-GAAP measures is included as part of the supplementary materials presented within the first-quarter earnings materials. These materials are available on the IBM investor relations Web site at <http://www.ibm.com/investor> and are being included in Attachment II ("Non-GAAP Supplementary Materials") to the Form 8-K that includes this press release and is being submitted today to the SEC.

## Conference Call and Webcast

IBM's regular quarterly earnings conference call is scheduled to begin at 4:30 p.m. EDT, today. Investors may participate by viewing the Webcast at <http://www.ibm.com/investor/1q09>. Presentation charts will be available on the Web site prior to the Webcast.

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## *Open Text to Report Third Quarter Fiscal Year 2009 Financial Results on Wednesday, May 6, 2009*

20 April 2009

Open Text™ Corporation announced that financial results for its third quarter of fiscal 2009 will be released on Wednesday, May 6, 2009 at approximately 4:00 p.m. ET.

### Teleconference Call

Open Text will host a conference call on May 6, 2009 at 5:00 p.m. ET to discuss the final financial results of its third quarter.

**Date:** Wednesday, May 6, 2009  
**Time:** 5:00 p.m. ET/2:00 p.m. PT  
**Length:** 60 minutes  
**Where:** 416-644-3415  
800-733-7571 (Toll Free)

Please dial-in approximately 10 minutes before the teleconference is scheduled to begin. A replay of the call will be available beginning May 6, 2009 at 7:00 p.m. ET through 11:59 p.m. on May 20, 2009 and can be accessed by dialing 416-640-1917 and using passcode 21302245 followed by the number sign.

For more information or to listen to the call via Web cast, please use the following link:

<http://www.opentext.com/2/investors/ir-events.htm>.

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## *SofTech Announces Improved Profitability for Third Quarter FY 2009*

22 April 2009

SofTech, Inc. announced financial results for the third quarter of Fiscal Year 2009 (quarter ended February 28, 2009). Revenue was approximately \$2.2 million for Q3 2009, as compared to \$2.4 million for Q3 2008 (quarter ended February 29, 2008).

The Company's profitability improved substantially, with net income increasing by approximately \$338,000, from a loss of \$133,000 (\$.01 per share) in Q3 2008, to net income of approximately

## CIMdata PLM Industry Summary

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\$205,000 (\$.02 per share) in Q3 2009. For the nine months ended February 28, 2009, the Company's net income increased by approximately \$1.3 million, from a loss of \$350,000 (\$.03 per share) in the comparable prior period to net income of approximately \$972,000 (\$.08 per share).

Net cash flows from operating activities also improved considerably during the first nine months of FY 2009, increasing approximately \$1.2 million from negative \$61,000 during the first nine months of FY 2008 to positive net operating cash flows of \$1.1 million in the first nine months of FY 2009. The Consolidated Statement of Cash Flows for the nine months ended February 28, 2009 and February 29, 2008 is included in the attached Financial Summary.

Earnings before Interest, Taxes, Depreciation and Amortization ("EBITDA"), a non-GAAP financial measure, decreased \$60,000, from \$560,000 in Q3 2008 to \$500,000 in Q3 2009, (an 11% decrease). For the first nine months of FY 2009, EBITDA increased \$200,000, from \$1.8 million in the comparable prior period to \$2 million (a 9% increase). A reconciliation of EBITDA to Net Income (Loss) is provided on the attached Financial Summary.

The Company's revenue is derived almost entirely from technology acquisitions completed between 1997 and 2002, and the Company's operations are not capital intensive. As of February 28, 2009, approximately 2.8% of the Company's assets represent amortizable intangible assets related to these historical acquisitions. The Company does not anticipate making further acquisitions in the foreseeable future. For the quarter ended February 28, 2009, amortization expense (a non-cash expense) related to these intangible assets were approximately 5% of total expenses, 4.5% of total revenue and 49% of net income. Further, the periods over which these intangible costs are expensed are highly judgmental.

The Company believes that EBITDA is useful supplemental information for investors, when considered along with net income and other income statement data. The Company believes that EBITDA is useful because it provides investors with information concerning the potential longer term profitability of the Company's technology assets (subsequent to full amortization of costs), as amortization of acquisition costs has been added back to net income in arriving at EBITDA. Further, management believes that EBITDA provides a useful financial metric by which the Company can be compared with other companies that have different capital structures (interest (a cost of capital) has been added back to net income in arriving at EBITDA). It is also management's belief that this non-GAAP measure of performance continues to be used in the investment community as a financial metric for business valuation purposes.

However, the Company believes that EBITDA is not a substitute for cash flow from operating activities, which is disclosed above and in the Company's financial statements. Investors should carefully review the financial statements of the Company in their entirety in order to obtain a complete understanding of the Company's financial condition and results of operations.

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## Implementation Investments

***Argonne National Laboratory Accelerates Simulations Using Mathworks Parallel Computing Tools***

22 April 2009

[The MathWorks](#) announced that [Argonne National Laboratory](#) significantly reduced the simulation time of models built with the Powertrain System Analysis Toolkit (PSAT) by using [Parallel Computing](#)

# CIMdata PLM Industry Summary

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[Toolbox](#) and [MATLAB Distributed Computing Server](#) from The MathWorks.

PSAT is an industry-standard model that enables automotive engineers to assess design tradeoffs by simulating a large number of advanced powertrain configurations. Using two other MathWorks products, [Simulink](#) and [Stateflow](#), Argonne, funded by the US Department of Energy, developed PSAT in conjunction with leading automotive manufacturers to help automotive engineers evaluate fuel economy and performance of advanced vehicle designs, including hybrid electric vehicles (HEVs) and plug-in HEVs. Argonne used Parallel Computing Toolbox with PSAT to execute simulations on a 16-node cluster—reducing the overall run time from two weeks to one day. Using MATLAB Distributed Computing Server also enabled Argonne to move its simulations with ease from a desktop computer to a cluster in one hour.

“Hybrid and fuel-cell vehicles are much more complex than vehicles with conventional powertrains. The U.S. Department of Energy and automotive OEMs needed an efficient and reliable way to evaluate the effect that each component has on vehicle fuel economy and performance,” explained Sylvain Pagerit, research engineer at Argonne National Laboratory. “Without parallel computing capabilities, we would not have been able to run the necessary simulations in the time allotted and, consequently, would have been unable to support our customers. The combination of PSAT and Parallel Computing Toolbox save countless hours in development by providing an efficient simulation-based environment for design tradeoff studies.”

“Traditionally, automotive engineers use prototypes to decide on system design tradeoffs. However, with the large number of advanced powertrain options, much of the hardware is being developed in parallel with the vehicle system development,” said Jon Friedman, automotive industry marketing manager at The MathWorks. “Model-Based Design and tools such as PSAT allow automotive engineers to make critical design decisions early in the process. And by taking advantage of our parallel computing capabilities, the Argonne team cut a time-intensive simulation process down to one day, speeding up design evaluation and bringing significant time and cost savings to the automotive industry.”

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## ***Autodesk Presents BIM Experience Award to HNTB Federal***

23 April 2009

[Autodesk](#), Inc. has announced that [HNTB Federal](#), a business unit of HNTB Corporation, has been selected to receive an [Autodesk BIM Experience Award](#). The employee-owned engineering, architectural, planning and construction management firm is being recognized for its use of Autodesk [building information modeling](#) (BIM) software for the design and documentation of large-scale government projects, such as the 883,000-square-foot Fort Knox and 773,000-square-foot Fort Lee projects for the U.S. Army. This award is the first in the new Autodesk BIM Experience Award program, formerly called the "Revit BIM Experience Award," which has been expanded beyond the Autodesk Revit platform.

"Autodesk BIM software has been at the center of our close collaboration with builders for many of our large-scale government design-build projects," said Bradley Schulz, AIA, architecture market vice president at HNTB Federal. "A BIM process leveraging the Revit platform, Navisworks and 3ds Max Design software allows us and our construction partners to collaborate early in the process, share schedule and cost information, and make more informed design decisions. For the Fort Lee project, the

# CIMdata PLM Industry Summary

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BIM process and Revit models helped make it possible for us to move from project-award to start-of-construction phase in just six months."

HNTB Federal uses many parts of the Autodesk software portfolio in its BIM process, including [Autodesk Revit Architecture](#), [Autodesk Revit MEP](#), [Autodesk Revit Structure](#), [Autodesk Navisworks](#) and [Autodesk 3ds Max Design](#) software.

"Presenting HNTB Federal with the first BIM Experience award of 2009 demonstrates the growing adoption of Autodesk BIM software solutions within the community of engineering, architectural, planning and construction management firms that serve government clients," said Bill Goodson, vice president of government sales for Autodesk. "HNTB Federal's Fort Knox project was 100 percent based on the Revit platform, making it one of the largest Revit platform projects in the world. By employing a shared BIM design platform, HNTB Federal was also able to realize efficiency gains throughout the design cycle, helping them to develop a design for the Fort Knox project in just 60 days."

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## ***Catalog Data Solutions Parametric Catalog and CAD Downloads selected by Brother International Corporation***

21 April 2009

[Catalog Data Solutions](#) (CDS) announced that [Brother International Corporation](#) has selected its CDS Catalog product for parametric product search and its CDS ModelServer product for CAD Downloads. The CDS Catalog will frontend the CDS CAD ModelServer CAD download solution and both will be integrated into the Brother website.

The products to be promoted through the CDS solutions are Brother's Mini, Water Resistant Mini, Mid and F3 Series Gearmotors and Reducers were designed in response to the industrial demand for smaller, lighter, more reliable, and energy efficient power transmission. "Our customers frequently request CAD models of our products for incorporation within their CAD designs. We evaluated possible solutions and selected CDS as the best choice to build our models, provide CAD downloads in multiple formats and provide a parametric catalog to make our products much easier to find and select online", said Garrett Dorman, National Operations Manager, Brother.

"We are delighted to have been chosen by Brother for our CDS Catalog and CDS ModelServer products," said John Major, CEO Catalog Data Solutions, "Studies show that over 90% of designers and engineers now use the Internet to locate components for their new designs. Parametric and attribute based catalogs are vital sales and marketing tools for all industrial manufacturers and distributors to ensure their products are easy to find and select online. Once a product is selected, offering 3D CAD model downloads often 'locks' products into a design so suppliers later benefit from the sales success of that design."

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## ***Chico's FAS, Inc Selects Gerber Technology's webView Product to Improve Global Collaboration, Workflow and Tracking***

22 April 2009

[Chico's FAS, Inc.](#) together with its subsidiaries, a specialty retailer of private branded, sophisticated,

# CIMdata PLM Industry Summary

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casual-to-dressy clothing, intimates, complementary accessories, and other non-clothing gift items under the Chico's FAS, White House | Black Market ("WH | BM") and Soma Intimates ("Soma") brand names has decided to implement [Gerber Technology's webView](#) application and upgrade to the browser enabled version of Gerber's [webPDM](#) to efficiently and effectively manage their product data.

Chico's FAS will use [webView](#) in conjunction with Gerber Technology's [webPDM](#) solution to enhance collaboration between vendors by providing a single source of data. Centralizing data will allow for accurate information to be gathered more quickly while reducing input redundancy and improving communications between all parties. Collaboration and productivity will be further enhanced through [webView](#)'s fully integrated calendaring and task management capabilities resulting in a highly effective solution designed to provide maximum user visibility for the entire Chico's FAS team.

"We have been very happy with the existing Gerber products already in use at Chico's FAS and believe the addition of [webView](#) along with the upgrade to the new version of [webPDM](#) will enhance our productivity, collaboration and visibility capabilities. All of our data will be in one central repository, eliminating silos of information that typically reside in emails and Excel spreadsheets." said Kevin McIntosh, Director of Application Development and Delivery, Chico's FAS.

Launched in October of 2008, [webView](#) is a component of [Gerber Technology's PLM Software Suite](#) for the fashion industry. During implementation, [webView](#) will be mapped to Chico's FAS business processes, while taking into account best practices in order to help them improve workflow, track fit samples, request quotes, calculate costing and gain heightened visibility through dashboards utilizing specific KPIs.

For more information on [webView](#), [webPDM](#) and Gerber Technology's PLM Software suite, visit <http://www.gerbertechnology.com/plmsoftwaresuite.htm>

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## ***D-Cubed 2D DCM From Siemens PLM Software Released in IMSI/DESIGN'S DoubleCAD XT PRO***

21 April 2009

[Siemens PLM Software](#) and IMSI/Design LLC, a leading provider of retail CAD products, announced that the [D-Cubed™ 2D Dimensional Constraint Manager \(2D DCM\)](#) software, has been integrated and released in IMSI/Design's DoubleCAD™ XT Pro application.

DoubleCAD XT PRO is IMSI/Design's recently released application for mechanical and architectural drafting and detailing. The D-Cubed 2D DCM provides users with the ability to control their drawings using driving dimensions – i.e. dimensions with values that can be changed to drive modifications in a sketch or assembly – and other geometric constraints. This enables drawings to be produced quicker and more accurately with changes easily propagated across different elements of a drawing.

The D-Cubed 2D DCM is a widely adopted geometric constraint solver among developers of CAD applications, and the most commonly employed by end-users. Backed by its large developer and user community, and under continuous development for almost 20 years, the D-Cubed 2D DCM has a record for product and service quality. The result is a platform for enhancing a wide variety of CAD, CAM, CAE and PLM applications.

"With DoubleCAD XT PRO we have combined a comprehensive range of drafting and detailing functionality with the powerful capabilities of the industry's number one constraint solver," said Bob Mayer, Chief Operating Officer at IMSI/Design. "IMSI/Design is focused on delivering value and

# CIMdata PLM Industry Summary

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enhanced workflow productivity to our customers and we believe the inclusion of the 2D DCM technology in DoubleCAD clearly solidifies this position. DoubleCAD XT PRO is the third IMSI/Design application into which we've integrated the D-Cubed 2D DCM, demonstrating our confidence not only in the technological superiority of this high quality component, but also in the excellent service offered by Siemens PLM Software."

"We welcome the release of this latest D-Cubed 2D DCM based application and the continued commitment shown by IMSI/Design to our component technology," said Joan Hirsch, vice president of Product Design Solutions, Siemens PLM Software. "In today's challenging economic environment, we are proud that our [PLM Components](#) solutions are able to help our customers boost their software development productivity."

## About IMSI/Design

With over 15 million products sold since 1988, IMSI/Design products include TurboCAD®, TurboFLOORPLAN®, DesignCAD™, and IDX Renditioner™ families of precision design applications. For more information visit <http://www.imsidesign.com> and <http://www.doublecad.com>.

## About PLM Components: Parasolid and D-Cubed

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

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## ***First Pass Success -- Silicon Creations Successfully Tapes Out Complex RF Chip Using Simucad's Complete RF Tool Flow***

22 April 2009

[Silicon Creations](#) has successfully taped out their fourth high performance chipset using an all-Simucad tool flow.

The IC chip was manufactured, measured, and met or exceeded all design specifications on the first pass.

Simucad Design Automation is a leading provider of Analog, Mixed-Signal and RF Electronic Design Automation (EDA) software.

The Silicon Creations 1.9-3.8GHz LC based fractional-N PLL synthesizer IC was designed, simulated and laid out using ST Micro's 90nm RF process. The Simucad Analog Mixed-Signal design flow included SmartSpiceRF and the Custom IC CAD design suite.

Jeff Galloway, Co-Founder of Silicon Creations, described the IC, "The IC is a multiband LC fractional-N synthesizer. The chip contains a 4 VCO core, low noise PLL, and a third order Delta-Sigma modulator. The IC can be used for RF local oscillator synthesis or clock generation for SONET or

# CIMdata PLM Industry Summary

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Ethernet applications. The spot noise is better than -130dBc/Hz at 1MHz offset and the integrated jitter is roughly 250fs RMS. The output range is 1.9 to 3.8 GHz."

Galloway further described the toolset used, "We used Gateway for schematic entry, SmartSpice for analog simulation, Harmony for mixed-signal simulation, SILOS-X for digital verification and system modeling, Expert for layout editing, Guardian DRC/LVS/NET for physical verification, and HIPEX for hierarchical and parasitic extraction. We used a 16 machine cluster to run SmartSpice for thorough analog verification. We relied on SmartSpiceRF for our RF simulations, and were impressed how closely the simulations matched the measurements from the final silicon."

"It is always great to work with dedicated professionals like the designers at Silicon Creations," said Mr. Will Klein, Senior Application Engineer at Simucad. "We are pleased that our tools can help them save time and money by accurately predicting their product's performance."

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## ***German Long-Distance Water Supplier Chooses Intergraph(R)***

21 April 2009

Zweckverband Wasserversorgung Nordostwürttemberg ([NOW](#)), a long-distance water supplier in Germany, has chosen Intergraph(R) to fully replace its existing geographic information system (GIS) and improve the efficiency of its water distribution operations. NOW is the third long-distance water supplier in the Baden-Württemberg area of Germany to choose Intergraph for its infrastructure management needs.

"The new system from Intergraph is very open and powerful and can run on our existing Oracle database," said Ernst Rommel, CEO of NOW. "We expect this to significantly improve the way we store and leverage data across our utility, leading to faster, more efficient processes and improved service to 100 cities and municipalities and 600,000 inhabitants."

The Intergraph solution will be used to document NOW's complete long-distance water supply network, along with all of its technical assets. The solution will provide consistent support for the company's planning, construction and operational processes, as well as for infrastructure service and maintenance.

Intergraph infrastructure management technology is open and can import, process and export data from external systems such as computer-aided design (CAD) applications, allowing NOW to take full advantage of its enterprise data. Users will also be able to access all of the asset data via a simple Web browser from any workstation in the company for maximum speed and efficiency.

"The increasing adoption of our solutions by discerning German water utilities and our displacement of a well-known existing solution at NOW prove that water providers trust Intergraph to deliver more powerful geospatial systems to manage their critical infrastructure assets," said Maximilian Weber, Utilities & Communications manager for Intergraph.

[Intergraph](#) infrastructure management solutions will be on display at Booth 211 during GITA's Geospatial Infrastructure Solutions Conference & Exhibition in Tampa, FL, from April 20-22, 2009.

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# CIMdata PLM Industry Summary

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## *Leading North American Energy Company Upgrades to aspenONE® V7*

20 April 2009

Aspen Technology, Inc. announced that [EPCO, Inc.](#), has upgraded to aspenONE V7.

- EPCO, a leading North American provider of midstream energy services to producers and consumers of natural gas, crude oil, natural gas liquids and petrochemicals, is adopting the aspenONE V7 Engineering suite to better align engineering and operations processes in support of its operational excellence objectives.
- EPCO, Inc. chose aspenONE V7 to support the company's growth strategy, lower operating costs, improve efficiency and productivity, and decrease energy consumption.
- EPCO was drawn to several new innovations in aspenONE V7, including advanced cost estimation, which enables engineers to determine the feasibility of capital projects and business opportunities during conceptual design.
- EPCO will also use the Aspen Simulation Workbook within aspenONE V7, which brings the benefits of aspenONE to a wider range of users throughout the company via a user-friendly Microsoft Excel interface.
- AspenTech's token-based licensing model helps EPCO better meet their changing business needs by providing the flexibility to use the right software at the right time.

### **Supporting Quotes:**

Kevin Bodenhamer, Vice President of Engineering, EPCO, Inc.

“With our commitment to growing the partnership's comprehensive network of midstream assets, we are always looking for new ways to manage our increased capacity, new greenfield opportunities, and current debottlenecking challenges. AspenTech's solutions have played an important role in modeling, optimization, and new projects within our engineering organization for the past few years. We're excited to implement aspenONE V7 and look forward to utilizing its many new engineering and usability innovations, as well as the unique token-based licensing model. The new system will improve our ability to successfully navigate the turbulent economy by rapidly addressing changing business demands from using the right software at the right time, while optimizing the value of our IT investments.”

Blair Wheeler, Senior Vice President, Marketing, AspenTech

“EPCO is a great example of how leading energy companies are taking advantage of AspenTech process optimization across both engineering and operations. Using aspenONE V7, EPCO can implement engineering best practices to lower their costs, increase productivity, and improve visibility into operations.”

### **Supporting Resources:**

Links to more information:

- [About aspenONE Engineering solutions](#)
- [About aspenONE V7](#)
- [What the Industry is Saying about aspenONE V7](#)

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## ***Lockheed Martin Uses Mathworks Tools To Develop Configurable, Space-Qualified Digital Channelizer***

23 April 2009

[The MathWorks](#) announced that [Lockheed Martin Space Systems](#), a leader in space science and the design and production of space launch vehicles, successfully adopted [Model-Based Design](#) using tools from The MathWorks to develop a dual-stage, satellite-based channelizer. Also known as a bent-pipe transponder, the channelizer lets Lockheed Martin move bandwidth on-demand between users and location, optimizing the capacity of fixed-band satellite communications systems.

Using Model-Based Design, Lockheed Martin engineers were able to implement and verify design changes driven by evolving requirements. Overall, they reduced VHDL verification time by 90 percent and field-programmable gate array (FPGA) development time from 12 months to 4 months. Additionally, the algorithms developed can be reused, saving a projected 50 percent of design effort on subsequent projects.

“[Simulink](#) and Model-Based Design allowed us to visualize and simulate the operation of the system as it was running, and the model served as a golden reference for the hardware,” said Bradford Watson, staff engineer, Advanced Algorithm Development Group at Lockheed Martin Space Systems. “With Simulink and [EDA Simulator Link MQ](#) for Mentor Graphics ModelSim, system simulation and hardware verification are performed in one environment. As a result, we can test the design from end to end, improving quality and ensuring design accuracy and validity.”

“The work completed by Lockheed Martin engineers on this complex project shows the value of a unifying platform to improve the design process and increase quality and accuracy,” said Paul Barnard, design automation marketing director at The MathWorks. “By implementing Model-Based Design using The MathWorks products, Lockheed Martin was able to use the same set of tools for behavioral and implementation testing. This allowed for early testing and improved the overall design and verification process.”

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## ***Sophia University Leverages PTC Pro/ENGINEER to Capture Consecutive National Titles for Its Formula SAE Race Car Designs***

22 April 2009

[PTC](#) announced that “Sophia Racing,” the Sophia University Japan formula SAE racing team, has standardized on Pro/ENGINEER® for the design of all its formula racing vehicles. Sophia Racing began using Pro/ENGINEER in 2005 and achieved prominence, becoming the first team in the history of the Formula SAE Competition of Japan to win three championships in a row, in 2006, 2007, and 2008. Sophia Racing’s success continued with a third place victory at the world championship competition in 2008, a first for a team from Asia.

Formula SAE is a racing vehicle design competition for automotive technology students hosted by the Society of Automotive Engineers (SAE). Its events have been held around the world since the first one took place in the U.S. in 1981. The Formula SAE competitions are judged on dynamic and static criteria, requiring a very advanced level of overall vehicle quality. The dynamic criteria include an evaluation of the vehicle’s movement and turning capacities. The static criteria, on the other hand, include a per-vehicle production cost analysis of the various costs that go into production process, an evaluation of the

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innovation in the vehicle's overall design, and, finally, a judging on presentation of the development of the vehicle. One of the required elements in the competition is to demonstrate the ability to produce four vehicles a day, spending no more than \$25,000 per vehicle.

Sophia Racing has demonstrated its prominent technical capabilities in developing top-class racing vehicles using Pro/ENGINEER for all the processes needed for the vehicle development, from the sketching of clay models to detailed and mold design, to the manufacture of the power train, chassis and aero-dynamic components. Using a "back-to-the-basics" principle, Sophia has made full use of Pro/ENGINEER's strengths to address challenges in lowering the vehicle's center of gravity and enhancing its engine power, as well as for conducting stress and aerodynamic analyses.

In order to improve the aerodynamics and to lower the center of gravity of its vehicle, the team was able to modify the model parametrically and perform stress analyses on the model using Pro/ENGINEER MECHANICA®. The challenge of maintaining the stiffness in the chassis design was overcome through the use of this Pro/ENGINEER simulation module to perform FEM analyses for all parts as well as fatigue analyses where necessary. The surfacing and reflection analysis capabilities of Pro/ENGINEER were also fully leveraged for the cowling design.

"At the Department of Mechanical Engineering, Faculty of Science and Technology, we use Pro/ENGINEER in a required course for sophomores and above in order to develop engineering resources through practical engineering education," says Takashi Suzuki, Supervisor of Sophia Racing and Associate Professor, Department of Mechanical Engineering, Faculty of Science and Technology, Sophia University. "Pro/ENGINEER is the best tool for us because of its rich functionality and the ease-of-use for students who are learning best-practices product development. The top-down design approach increased the efficiency of our work, and has become one of the key strengths of Sophia Racing's machine development."

Pro/ENGINEER was introduced to Sophia University through Rikei Corporation, a PTC Platinum Partner and Authorized Reseller.

Sophia University: [http://www.sophia.ac.jp/E/E\\_toppage.nsf/](http://www.sophia.ac.jp/E/E_toppage.nsf/)

Sophia Racing: [http://www.sophia-racing.com/index\\_e.html](http://www.sophia-racing.com/index_e.html)

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## ***TechnoMAP Strengthens its Manufacturing Harness with E<sup>3</sup>.redliner***

16 April 2009

Zuken announces that TechnoMAP, cables and harnesses manufacturer, specialist in the automotive sector, has opted to use E<sup>3</sup>.redliner. With this tool, TechnoMAP will extend its activities for E<sup>3</sup>.series users, broadening its scope of business into multiple sectors.

E<sup>3</sup>.redliner uses the graphical interface of E<sup>3</sup>.series and can work between the design and control operations, a prerequisite to work with customer designs teams. In addition to the traditional functionalities of a viewer, its back-annotation feature allows control and advice in all the phases of the project, while ensuring information traceability. "In a difficult economical situation, E<sup>3</sup>.redliner reinforces our business services policy, to customers whose needs for cable harness become increasingly important. During the manufacturing process phase, last minute changes are essential but we must be able to ensure their traceability. Zuken has naturally proposed the right solution, allowing a rapid exchange of data and consistent with customers' design tools." Commented Mr Eric Wallet, Electrical

R&D Manager.

Zuken confidently expects this approach to the E<sup>3</sup>.series will be the starting point of a long-term partnership with TechnoMAP as they are demonstrating their willingness to invest other modules such as E<sup>3</sup>.cable.

For more information on E<sup>3</sup>.series, please visit <http://www.zuken.com/products/e3-series.aspx>

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## ***Transoft Solutions Secures Significant Sale with Genivar***

15 April 2009

Transoft Solutions has recently secured a significant sale with Genivar, a major Canadian based engineering company. With more than 45 years of experience, 3,500 employees in 85 offices, and projects in over 35 countries, Genivar is a leader in providing consulting engineering services. With the fast growth of the company and expansion into multiple areas of engineering, Genivar has acquired a substantial amount of licenses for AutoTURN, GuidSIGN, ParkCAD, and TORUS to consolidate and offer proper network deployment across all of their offices.

Throughout the years, Genivar has been experiencing substantial growth through the purchase of many organizations across Canada and the Caribbean. These organizations focus on different areas of engineering, therefore incorporating varying Transoft Solutions product licenses. To consolidate each license and set up proper networking systems across all offices, Genivar turned to Transoft Solutions.

With an extensive audit to determine transportation engineering software needs, Genivar had purchased licenses for AutoTURN, GuidSIGN, ParkCAD, and TORUS, all of which are fully compatible with AutoCAD® 2004 - 2009 and MicroStation® V8.1 – XM. Using advanced vehicle swept path and turn simulations, and loaded with numerous features, AutoTURN will allow Genivar to evaluate and analyze complex vehicle maneuvers for future projects. Using the AutoTURN engine, TORUS will allow them to generate single and multilane roundabout geometry using vehicle swept paths in real-time. ParkCAD will eliminate the task of calculating and drafting; automatically creating parking sites using a real time display. GuidSIGN, now updated with Canadian MUTCDC, will provide Genivar with the tools to create cutter ready highway signs.

Working together since 1999, Genivar has become one of Transoft Solutions major Canadian client using both French and English versions of AutoTURN and ParkCAD software. Renée Dow, Sales Associate for the Quebec region said of the purchase, “the sale was made possible due to the ongoing efforts put forth from our sales team since 2006 and from the participation of Genivar’s Information Technology Manager, Réjean Lessard.”

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

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## ***VA Tech Wabag Goes Live on IFS Applications***

22 April 2009

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VA Tech Wabag, India selected IFS Applications to streamline its business processes in October 2007. The company has now successfully gone live on IFS Applications components for distribution, financials, engineering, operational HR, sales & service, and maintenance in addition to a number of cross-functional components.

IFS Solutions India Pvt. Limited won the bid because it offered industry-specific enterprise applications from IFS that were easy to implement. The project-centric applications offered by IFS matched the requirements of VA Tech Wabag, which is an engineering, procurement and construction (EPC) company.

“IFS stood out as having the best functional fit for our business and has a solution that supports our project-oriented business, both today and in the future. Moreover, the IFS representatives have proven themselves to be skillful and competent when it comes to understanding our business, which is crucial to the long-term relationship we are now embarking on with IFS. The superior technology of the IFS solution, its ease of use, short implementation period and low total cost of ownership were the key reasons we selected IFS Applications,” said Mr. Varadarajan, CFO, VA Tech Wabag.

Dr Chandan Chowdhury, managing director of IFS India, said “IFS’ offering to the project-centric industry provides complete control of a business at a low cost of ownership. IFS has strong, component-based functionality, and its track record in project-centric industries makes it a leader in the EPC segment”.

VA Tech Wabag required a solution that would increase project management efficiency and to better manage time, budget, and costs. The company also needed to manage more efficiently project-related sub-contracts. Moreover, it needed to be able to consolidate various project details in international projects to enable head office to enhance planning. The ability to maintain project profitability and efficiently allocate resources were two other key requirements.

IFS Applications has given VA Tech Wabag easy access to critical business information throughout the enterprise and dedicated project-centric functionality that improves project overview, planning and control, and facilitates follow-up. It now has much better connections between project activities, settings & material, and enhanced cost control. Now, the profitability of a project is easier to monitor. The project-centric software from IFS gives VA Tech Wabag complete control of its project lifecycles.

## **About VA Tech Wabag**

VA Tech Wabag is a global corporation, with market leadership in India and on its way to establishing a significant position in many overseas markets such as Asia, Europe, and Africa, both in engineering, procurement and construction ( EPC ) and in the service sector of the water business. Started in 1996, VA Tech Wabag is the fastest growing company in India in the field of environmental engineering. Within ten years, it has achieved a turnover of Rs. 3 billion and a backlog of Rs. 7 billion.

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## **Product News**

***All-New FACTON Software Module Tracks Vendor Tooling Costs***

15 April 2009

All-New FACTON Software Module Tracks Vendor Tooling Costs

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- Latest feature for comprehensive cost-solutions system
- Greater cost-reduction opportunities
- No reduction in product quality or content

The Tooling Module is the latest upgrade for FACTON total-cost management systems, providing real-time cost transparency to help companies track and lower their costs over the lifecycle of projects and products.

"This new feature allows our customers to view and manage vendor tooling costs very accurately and in real time," said Edward Mabley, President and CEO of FACTON Inc. "This gives you the ability to generate much more accurate should costs, and to track the tooling costs over single and or multiple programs over the entire value chain."

The FACTON system gives companies the ability to accurately track and predict costs. The system is configurable to match each client's specific needs, and provides an easy way to view and follow actual costs via management dashboards, as well as compare multiple cost scenarios.

The data is updated in real time for all users around the globe within your company. Additional, FACTON provides quarterly-updated global sourcing costs of hundreds of manufacturing commodities, as well as labor costs broken down by regions within world markets.

"The new Tooling Module information is visible with the FACTON dashboard with all of the other cost data in the system," said Alexander Redlich, Senior Consultant for FACTON. "This makes it is easy for authorized finance, purchasing and product development teams to input, access and analyze data. This enables informed decision making to keep costs down without sacrificing product features or quality, and it improves program development speed."

FACTON is a cost solutions company that delivers systems and services to accurately predict, track and control costs on specific projects as well as over entire product lifecycles. Services include should-cost estimates, actual program-cost management, make/buy evaluations and global benchmark costs. The FACTON system provides complete program-cost transparency to allow clients to accurately track costs in real time from multiple points throughout a global organization. The company has proven experience at more than 25 leading manufacturing companies around the world.

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## ***Alvanon's Body Form Accuracy Now Represented in OptiTex's 3D Avatars***

20 April 2009

OptiTex announced its cooperation with Alvanon, the expert on global size and fit avatars. This alliance enables OptiTex to provide mutual clients with a 3D version of their Alvanon physical avatar.

OptiTex's goal to offer comprehensive textile solutions to save time and money extends its reach by enabling clients to obtain 3D models with their Alvanon physical body form. By providing software protected 3D models alongside Alvanon's avatars, customers have the ability to increase their ROI by receiving a product that is easily implemented into their production line to provide a more accurate fitting process, which is critical to the Apparel Industry.

"We are very excited to provide OptiTex and Alvanon's customers with an added benefit for their integrated fit solutions. Such a benefit addresses a long time need for the apparel industry to have a

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replica of a real body form in a 3D environment.” says Yoram Burg, President of OptiTex USA. “OptiTex solutions provide customers and the apparel industry, with the promise of achieving the most accurate fits, which increases customer satisfaction, brand loyalty and customer retention levels—building a sustainable competitive-advantage for their product.”

Both Alvanon and OptiTex will be participating at the upcoming IMB 2009 Show, in Köln, Germany, April 21-24, 2009. To set a meeting with an OptiTex representative, please contact them or visit them at Hall 08.1, booth C021. Guests are welcome to attend a talk titled “OptiTex goes online” given by OptiTex CTO, Mr. Sagi Shani's, at the Speaker's Corner area, on April 23, 2009, at 10:00 am

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## ***ANSYS Releases Simplorer 8.0 Software***

20 April 2009

[ANSYS, Inc.](#) announced the latest release of Simplorer® software. Part of the Ansoft family of electronic design automation (EDA) products, Simplorer is used for the design of mechatronic and other multi-domain systems, which are commonly found in the automotive, aerospace/defense and industrial automation industries. The new release introduces a next-generation user interface, advanced modeling capabilities including dynamic links to other Ansoft software, enhanced integration with third-party simulation software, and computational performance enhancements.

Simplorer software greatly reduces engineering time and prototype iterations while improving design performance of electrical, mechatronic, power-electronic and electromechanical systems, such as hybrid-electric drive and anti-lock braking in automobiles, robotics used in industrial automation, and power electronic equipment used to control and convert electric power. Simplorer technology enables engineers to model, simulate, analyze and optimize such complex systems. Using the software's modeling features and communication backplane technology, engineers are able to construct virtual prototypes of all aspects of a system including the electronics, sensors/actuators, motors, generators, power converters, controls and embedded software. This enables engineers to investigate system functionality and performance and to verify overall design. The result is a dramatic reduction in development time and cost, increased system reliability and performance optimization.

“In today's market, there is a huge demand for more automated, functional and higher-performing products. In order to satisfy this demand, engineers must now address the convergence of electronics, mechanics and control engineering when designing a product — whereas in the past they could concentrate solely on a single discipline. The new release of Simplorer technology addresses this trend,” said Dr. Marius Rosu, product manager for Ansoft electromechanical products. “The state-of-the-art user interface and electromagnetic coupling technologies introduced in Simplorer 8.0 will enable users to create a highly accurate, customized design flow for rapidly emerging applications that involve multiple engineering domains. It is an important step to integrating the ANSYS multiphysics capabilities into future releases.”

The new state-of-the-art user interface in Simplorer software allows engineers to concurrently utilize multiple modeling techniques including circuits, block diagrams, state machines, equation level, and modeling techniques such as the IEEE open standard VHDL-AMS, SML (Simplorer Modeling Language) and C/C++. Using the product's communication backplane technologies, these standard modeling techniques and modeling languages can be used concurrently within the same schematic, allowing users to create analog, digital and mixed-signal multi-domain designs, to manage modeling

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data, and to execute simulations. The user interface supports multi-page designs and multiple levels of hierarchy, provides maximum flexibility, and eliminates the need for error-prone mathematical transformations and model analogies employed by single-domain simulation tools.

## New and Enhanced Features

- Insulated gate bipolar transistor (IGBT) device characterization tool, allowing users to accurately create average and dynamic models of power semiconductor devices
- Power Module Characterization tool, which aids in building DC-to-DC converter models by entering data directly from the manufacturers' specifications
- Online model database that includes more than 1,200 SPICE models of common components offered by suppliers; includes a model library of ultra-capacitors from Maxwell Technologies
- Direct support for SPICE and PSPICE model text
- Co-simulation links to complementary simulation software, including Simulink®, ModelSim® and QuestaSim®, allowing users to easily incorporate control programs and digital designs for field-programmable gate array (FPGA) semiconductor devices and application-specific integrated circuits (ASICs)
- Co-simulation links with Verilog for design, verification and implementation of digital logic chips
- New function handling techniques and solver methodologies to optimize simulation performance
- Integration of the Society of Automotive Engineers (SAE) VHDL-AMS statistical package, which is useful in defining the statistical variation of parameters of electrical, electronic, and mechatronic components and sub-systems
- Distributed solve capability that allows users to distribute parametric variations across a network of computers, enabling the exploration of more design possibilities in less time

The unique advantage of Simplorer software is its ability to integrate multiple modeling technologies. Many components in nonlinear dynamic systems cannot be modeled with the required precision by using existing system modeling techniques or modeling languages. To accurately represent the physics of critical system components such as sensors, actuators and electrical machines, finite element analysis must be employed. Simplorer provides a direct link to Ansoft's Maxwell®, Q3D Extractor®, RMxpert™ and PExpert™ software. These links will be expanded to include ANSYS® Multiphysics™ in a future release. The coupling technology and model reduction techniques of Simplorer provide users with the capability to transform detailed and full-accuracy physics-based models produced by finite element software packages to high-level system simulation.

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## ***Apache Design Solutions Introduces Totem, the Industry's First Power and Noise Integrity Platform for Analog and Mixed-Signal Designs***

21 April 2009

[Apache Design Solutions](#) announced Totem, the industry's first integrated power and noise integrity platform that addresses the challenges associated with global couplings of power/ground noise, substrate noise, and package / PCB capacitive and inductive noise, for analog, mixed-signal, memory, and high-speed I/O designs. Totem is a comprehensive platform that incorporates transistor-level noise injection,

parasitics extraction, package modeling, dynamic analysis, and design debug in a single-flow environment.

Totem's key technology is based on the concurrent analysis of noise propagation through the power delivery network, substrate network, and package/PCB parasitics. It accurately analyzes noise coupling effects at every time-point using a single-kernel solver. This advanced technology enables designers to account for all global noise impacts on their designs, a critical challenge for post submicron mixed-signal SoCs.

Totem is a full-chip layout-driven analysis solution integrated with existing analog environments. It provides cross-probing of analysis results with industry standard circuit design tools for efficient debugging, fixing, and optimization. Designers can use Totem for early stage prototyping to guide their power network and package design. In addition, Totem can be used for chip sign-off and post-silicon debug.

## **Accurate Power/Ground Noise Analysis with Full-chip Capacity**

The accuracy of power noise analysis is critical for functionality, timing, and reliability of analog designs. Totem incorporates transistor-level power model with voltage de-rated switching current technique, and SPICE-accurate decoupling capacitance extraction. In addition, impact of package and board effects is included through the support of broadband S-parameter package and PCB models.

Totem delivers the capacity required for standalone DRAM, Flash, and CMOS image sensors, as well as embedded memory macros. It leverages RedHawk-NX's mesh pattern recognition (MPR) extraction technology and multi-core simulation engine to handle hundreds of millions of transistor designs overnight.

Totem also offers simulation-based electro-migration (EM) validation for power and signal nets. It supports both Root Mean Square (RMS) and Peak current EM checks, which are critical for advanced process nodes, in addition to conventional average current-based methods.

"The ability to verify power, noise, and reliability of our full-chip DRAM design within a reasonable time is critical to our tape-out success," said Seong-Kwan Hong, Ph.D., vice president of R&D from Hynix. "Apache's Totem enabled us to perform dynamic analysis within a day and produced results that closely correlated to our SPICE simulation. We are very impressed with Totem's product quality and how easily it integrated into our production flow."

## **Substrate Noise Coupling (SE)**

Increasing power density and higher speed of digital components creates significant noise injection into the substrate. Furthermore, limited die real estate is impacting the effectiveness of the guard-ring structure for analog macros. Accurate substrate noise analysis is critical to high performance mixed-signal and Radio Frequency (RF) designs.

Totem's Substrate Noise (SE) technology includes extraction of the substrate network for advanced process technologies such as triple wells and various guard-ring structures. SE also provides concurrent time-domain simulation of the substrate network, power/ground mesh, and package parasitics. SE accounts for full-chip SoC substrate noise effect by directly interfacing with RedHawk to obtain accurate substrate injection signature of all digital components.

Substrate impact on analog circuitries can be analyzed using SPICE simulation with SE's back-annotated circuit netlist including the noise waveform. This allows analog and RF designers to

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accurately determine the magnitude of substrate coupling effects.

“At smaller process nodes, analog circuitries become highly susceptible to power induced noise failures, a critical challenge for mixed-signal designs, especially with high performance digital blocks such as embedded processors. To ensure silicon success, we need robust circuit design techniques to mitigate substrate noise coupling,” said K. Tsuboi, senior manager from STARC. “We used Totem with SE technology to correlate its simulation results with the on-chip substrate noise measurement data. Totem is a critical part of the mixed-signal design flow to analyze the effectiveness of the noise prevention techniques.”

## **RedHawk, Sentinel, and Totem Eco-Platform**

Apache’s power and noise integrity eco-platform for chip-package-system convergence includes RedHawk SoC, Sentinel package/PCB, and Totem analog and mixed signal platforms. After the validation of analog IPs, Totem can generate accurate and efficient Component Macro Model (CMM) for RedHawk top-level SoC analysis. CMM provides various levels of IP protection schemes, and can be used as a hand-off model for IP vendors to their customers.

For chip-package co-design, Totem also generates the widely adopted Chip Power Model (CPM) for standalone memory and analog components. CPM can be used directly in the Sentinel platform to perform package- and board-level power and signal integrity analyses with consideration of accurate on-die noise.

“The introduction of Totem noise integrity platform is an important milestone for Apache as the industry recognizes the challenges of global power and noise for chip, package, and system. The analog and mixed-signal contents in SoC and system designs are rapidly increasing and increasing the risk of noise induced failures across the system,” said Andrew Yang, CEO of Apache. “Apache’s dedicated focus to deliver the ‘best-in-class’ analysis solutions enables our customers to address their relentless demand for cost reduction and risk mitigation as their design complexity and process technology continue to scale.”

## **Pricing and Availability**

Totem is available now with the list price starting at \$250,000 USD.

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## ***aPriori v6.5 Expands Market Coverage with Support for Oracle and Additional CAD System Support***

20 April 2009

[aPriori](#) announced the availability of aPriori v6.5, the newest version of its Product Cost Management software platform. With innovative capabilities that provide real-time, predictive and precise product cost assessments, aPriori v6.5 empowers manufacturing organizations to reduce product costs by identifying quantifiable savings in material, tooling, labor and overhead while evaluating alternative designs, processes and sources.

“aPriori is designed to provide all people across an enterprise with instant visibility into how their everyday decisions affect cost – including engineering, design, sourcing and manufacturing organizations,” said Jeremy Rishel, Chief Technology Officer at aPriori. “Companies that have grown through acquisition, or companies within industries that have extended supply chains often utilize two or more CAD tools. With support for an additional database and new 3D CAD formats aPriori v6.5 can be leveraged by a larger population of individuals within our customer organizations to achieve their

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product cost targets and spend reduction goals.”

Shown below is a summary of the new features and applications available with aPriori’s newest release of software:

- **Oracle** – In aPriori 6.5, database support is extended to Oracle in addition to MySQL. Customers now have a choice of deploying aPriori on either MySQL or on Oracle 11g.
- Expanded CAD Cost Connector Support - aPriori 6.5 supported 3D CAD file formats now include:
  - **Solidworks® Support** – Parts and assemblies created in SolidWorks 2008 or 2007 releases can now be opened and cost in aPriori directly from a file, without accessing the CAD application.
  - **Autodesk® Inventor® Support** – Parts and assemblies created in Inventor 2009 or 2008 releases can now be opened and cost in aPriori directly from a file, without accessing the CAD application.
  - **STEP Import** – Parts exported as STEP files can now be opened and cost in aPriori directly from a file, without accessing the CAD application
  - **Deep Bill-of-Materials Support** – aPriori now supports display and navigation of the fully indented bill of material (BOM). For an assembly, there are now two user selectable views, an indented BOM view and a component list view.
- VPE Creator Application - Complementing the enhanced Virtual Production Environment (VPE) Maintenance Tool in 6.5, aPriori is offering a new VPE Creator Application. The aPriori VPE Creator allows customers to easily create copies of their own VPEs or aPriori Baseline VPEs and model different variations in labor rates, material rates or machine configurations.

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## *Autodesk Announces Availability of AutoCAD P&ID 2010 Software*

23 April 2009

**WHAT:** AutoCAD P&ID 2010: Autodesk announced that it is shipping AutoCAD P&ID 2010 software, the new release of its software application built specifically for creating, modifying, and managing piping and instrumentation diagrams. Built on the AutoCAD 2010 platform, AutoCAD P&ID allows design and engineering teams to start working with minimal training. Common tasks are more streamlined and automated to help boost productivity, while designers have easier access to more accurate component and line information. AutoCAD P&ID 2010 provides the following new features to further enhance ease of use; help increase designer productivity; and support information accuracy:

**Project setup restricted access** - The project administrator or lead can restrict user access to Project Setup using Microsoft Windows File Permissions.

**Project specific tool palettes setup** - Tool palette groups may be associated with a specific project so that all users access the standard set of symbols for the project. As each project may require specific sets of symbols, AutoCAD may be used to create custom tool palettes and groups.

**Curved schematic lines** - Polylines with arcs, filleted polylines, and splines can be converted to form curved SLINES. This feature is useful for showing tubing and flexible hose piping.

**Inline equipment** - ISO and DIN Equipment such as pumps, compressors, blowers, and filters can be inserted into pipelines. Equipment will break the pipeline into two with different line numbers and be

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correctly oriented along the proper flow direction.

**End connections for inline instruments** - End connections - flanged, welded, socket welded, and threaded, among others - can be applied on control valves and inline instruments

**Japanese Industrial Standard instrumentation symbols** - A Japan (metric) project template is available that includes ISO and JIS Z 8204, the Japanese Industrial Standard instrumentations symbols.

In addition to these productivity enhancements, AutoCAD P&ID 2010 includes all the functionality of the new AutoCAD 2010 platform and will integrate with the forthcoming AutoCAD Plant 3D product.

## **Includes all functionality of new AutoCAD 2010 Platform**

AutoCAD P&ID 2010 includes the intuitive interface and all of the functionality of the new AutoCAD 2010 platform. AutoCAD 2010 enables designers to create innovative designs with the addition of new free-form design tools and offers new PDF Import and Underlay and other enhanced publishing features; new parametric drawing tools; and 3D printing.

Integrated AutoCAD P&ID and AutoCAD Plant 3D environment AutoCAD P&ID and the forthcoming AutoCAD Plant 3D can share a single integrated project, making data exchange smoother and more seamless. Piping designers can review AutoCAD P&ID data and process designers can review AutoCAD Plant 3D data. Both share a common user interface and components -- such as Project Manager and Data Manager -- making learning and using easier.

**CUSTOMER REFERENCE:** Wastech Controls & Engineering, Inc. "As long-time users of AutoCAD, we have been able to maximize the added value of AutoCAD P&ID very quickly," said Kevin Holm, vice president of operations at Wastech, a leading process system integrator specializing in the design and manufacture of industrial wastewater treatment and chemical delivery systems for solar, pharmaceutical and semiconductor facilities. "The new features in AutoCAD P&ID 2010 will help us to continue to increase our productivity and profitability by helping to expedite our work with P&IDs. As our customers strive to achieve zero- discharge in their industrial manufacturing processes, our innovative technologies are increasingly essential and our P&IDs are the roadmaps that help us achieve efficient delivery of our systems."

**WEBSEMINAR** On May 28, 2009 from 10:00 AM to 10:45 AM Pacific, Autodesk Reseller KETIV Technologies will host a webcast, "Wastech Controls Accelerates Design Process with Autodesk Plant Solutions." Register at <http://www.ketivtech.com/events>.

**MORE INFORMATION:** For free product trials or to learn more about AutoCAD P&ID 2010, please visit <http://www.autodesk.com/autocadpid>.

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## ***Cadence and TSMC Introduce Mixed-Signal/RF Reference Design Kit in 65nm Process Technology***

21 April 2009

Cadence Design Systems, Inc. and TSMC announced the introduction of an industry-first Mixed-Signal/Radio Frequency Reference Design Kit (MS/RF RDK). Developed with Cadence® Virtuoso® mixed-signal technology, the kit provides silicon-characterized behavioral models and a complete validated tutorial demonstrating an efficient MS/RF IC reference design flow that can help speed time to market. New technology includes a phase locked loop (PLL) noise-sensitive reference design example that can predict phase noise efficiently and accurately. Cadence technologies deployed include the

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Virtuoso custom design platform with SKILL-based Pcells, QRC Extraction, and Virtuoso Multi-Mode Simulation, which includes Spectre® Circuit Simulator, Spectre RF and AMS Designer.

The complete MS/RF RDK—with documentation, PLL circuit example, and validated flow tutorial—will be available on TSMC Online at [online.tsmc.com](http://online.tsmc.com) in Q2 2009 to selected TSMC 65-nanometer customers worldwide, giving designers an opportunity to learn about the integrated solution. Both Cadence and TSMC plan to demonstrate aspects of the flow at the TSMC Technology Symposium in San Jose, Calif., in April, the CDNLive! EMEA user conference in Munich, Germany, in May, and the Design Automation Conference (DAC) in San Francisco in July.

"This MS/RF Reference Design Kit is a perfect example of how TSMC and Cadence continue to collaborate to help our mutual customers get to market faster," said ST Juang, senior director of Design Infrastructure Marketing at TSMC. "With the challenges associated with today's complex RF mixed-signal designs, I'm sure this reference flow and all the supporting materials and examples can be of great aid to many of our customers."

"[Cadence](#) Virtuoso technology is a hub within the greater ecosystem of custom and mixed-signal design," said Bill Heiser, group director for Solutions Marketing at Cadence. "Our commitment of working closely with foundry partners like TSMC strengthens that ecosystem to the benefit of our joint customers tackling the toughest mixed-signal challenges."

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## ***Going Nuts Over Recalls...How do you handle a supplier recall?***

April 2009

Earlier in the year it was the Peanut Corporation of America, now it is pistachios that are currently under investigation. Products including and made by these nuts are under close scrutiny. This makes a significant impact not only on American consumers directly, but also on other corporations.

How many companies does this impact?

Several corporations use pistachios in their products, while a significant more use the Peanut Corporation of America as a supplier for peanut paste to make cookies, candies, institutional peanut butter, and more.

Which brings us to ask-- how do you handle your suppliers in the event of a recall or a major supplier change? How do you track and control all of your formulas and recipes to ensure that they still comply when new ingredients are added and the others are removed?

DevEX, Selerant's Product Lifecycle Management software, enables formula-based manufacturers to collaborate more effectively with their suppliers. This collaboration allows you to view every detail of every material, down to the material specifications.

It also allows your developers to search for a specific ingredient from a supplier in formulas to make a global change.

So in the event of a massive recall (such as the peanuts), you could search for all formulas and make a global change with an ingredient from another supplier.

If the change to be made is smaller, you can optimize the formula with the Formula Optimizer tool to find the alternate ingredients that would still meet compliance with the least amount of impact on the

current product formulation.

Once changes have been made, team members can run batch regulatory analysis reports, ensuring compliance for all of the changes made. The regulatory analysis will be run against the proprietary compliance issues stored for the selected regions where the products will be manufactured or distributed. These batch reports can be easily selected and then scheduled to run as well as automatically distributed upon completion.

This level of control and visibility is not reserved solely for emergencies. The definitive tools enable corporations to continuously track suppliers, vendors, and ensure higher levels of quality, cost, and time control.

Need more information? Selerant can walk you through each detail in a more personalized demonstration at your convenience. To schedule your demonstration, send a request to [email@selerant.com](mailto:email@selerant.com).

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## ***Mentor Graphics Strengthens Its Automotive Solutions with New Integrated AUTOSAR Design Environment***

20 April 2009

[Mentor Graphics Corporation](#) announced technology that makes possible an AUTOSAR-based vehicle system design flow from architectural exploration to implementation. The new product, Volcano™ Vehicle Systems Architect (VSA), enables AUTOSAR-based system and embedded software design with support for FlexRay, CAN & LIN network design. VSA improves quality, reliability, time to market, and cost advantages by facilitating the use of standard interfaces and components based on AUTOSAR.

VSA, the first member of Mentor's AUTOSAR product family to be announced, focuses on the model-driven design process, incorporating the AUTOSAR standard. This approach allows customers to reduce their reliance on downstream validation and physical prototyping. Automotive companies can achieve substantial cost savings in the development process by moving significant decisions and verification tasks to the front end of the design cycle.

AUTOSAR (AUTomotive Open System ARchitecture) is a worldwide development partnership of car manufacturers, suppliers and other companies from the electronics, semiconductor and software industry. Since 2003 the AUTOSAR Consortium has worked on the development and introduction of open, standardized software architecture for the automotive industries.

AUTOSAR impact is worldwide. In Japan, JasPar (Japan Automotive Software Platform and Architecture) has been working on the evaluation and testing of AUTOSAR results. Tools such as VSA, which facilitate the adoption of AUTOSAR and related technologies, are regarded as having important implications for the Japanese automotive market. JasPar is using the experience of the consortium members and standards such as AUTOSAR and FlexRay to create future automobile design standards for Japan. Mentor Graphics is a premium member of both AUTOSAR and JasPar.

With VSA, engineers can design, explore and compare electronic and software architectures. VSA further allows users to take advantage of "correct-by-construction" design methodology reducing reliance on test-oriented validation approaches. VSA supports multi-partner, distributed iterative development enabling greater interaction between OEMs and Tier1 suppliers. The product is based on

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the open-source, plug and play, Eclipse Integrated Development Environment, making VSA easily extensible by the customers as well as other tool suppliers.

"The number of AUTOSAR ECUs [Electronic Control Units] is increasing significantly in the automobile industry within the next car generations. In order to design those systems, the industry is looking for an open tool-framework supporting the full AUTOSAR metamodel for authoring, consistency check and validation; an example of this would be Eclipse. We don't need a short-term solution but instead a solution which supports the future AUTOSAR process even in a more long-term perspective," said Dr. Guenter Reichart, one of the founders of AUTOSAR. "Mentor Graphics has taken this challenge, and Mentor's VSA tool is now ready and fully supporting the needs."

"The AUTOSAR standard does a great job of standardizing, but it doesn't necessarily simplify the design process. To design AUTOSAR-based systems, you need tools that take the complexity out of the design process and allow development teams to focus on their real jobs of delivering application software, ECUs or the networking system. This is what we are providing today," said Serge Leef, general manager, System-level Engineering Division, Mentor Graphics.

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## ***New CSC Solution Accelerates Global Collaborative Product Design and Development***

20 April 2009

CSC introduced CATRack, a new product lifecycle management (PLM) business solution for engineering and manufacturing companies that design and build complex aerospace, automotive and other heavy equipment or high-technology products. CATRack is a pre-built, scalable system that provides high-speed access to product model data within an organization and among design partners.

The offering helps design teams meet the challenges of global collaboration by storing, sharing and synchronizing product model data across all design partners. Until now, this process required significant manual intervention and monitoring on behalf of each design partner. CATRack eliminates this necessity, freeing engineers to focus on core project work and reducing both overall design cycle time, as well as data recovery in the event of user or system errors.

[CSC](#) developed the solution in collaboration with IBM(R) and Dassault Systemes. CATRack is powered by IBM rack-mounted BladeCenter(R) high-performance servers and Dassault Systemes' CATIA and ENOVIA applications. CSC provides systems integration, engineering and remote support services to offer clients a complete end-to-end managed service.

"The stakes couldn't be higher when it comes to mastering the demands of bringing new products to market," said Eileen Sweeney, president of CSC's Global Manufacturing Services Sector. "Engineering and manufacturing companies rely on borderless, secure collaboration to accelerate innovation in new product design and development. CATRack can be up and running in a secure CATIA/ENOVIA environment quickly with real-time access to engineering models around the globe."

The system can be deployed as a turnkey solution or configured and installed to specific PLM processes and data requirements. More information is available at [www.csc.com/CATRack](http://www.csc.com/CATRack).

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## ***New Siemens PLM software solution ensures product compatibility across U.S. Department of***

## *Defense*

23 April 2009

[Siemens PLM Software](#), a business unit of the Siemens Industry Automation Division announced a new capability in its [Teamcenter](#)® software portfolio that will help ensure compatibility across all products supplied to any branch of the U.S. Department of Defense (DoD). Developed in conjunction with Siemens Government Services (SGS) the new functionality supports the DoD Architecture Framework (DoDAF), an architectural standard which mandates that all products delivered to the DoD include common architecture documentation for evaluation as part of the product development process.

“Today’s announcement will enable the U.S. military and its contractors to efficiently incorporate a common architecture into their products at the earliest phase of the development process,” said Steve Bashada, vice president of Teamcenter Applications, Siemens PLM Software. “Using an intelligent diagramming environment, Teamcenter provides modeling tools that understand connections between elements. As a result, a common product architecture is built-in and documented throughout the development process, and product compatibility among all branches of the military is ensured.”

### **Providing an “intelligent” link to product design**

Due to a number of interoperability problems among various branches of the military services, congress passed the Clinger-Cohen Act which requires product architecture be considered and reviewed as a part of defense acquisitions. Subsequently, the DoDAF was established and includes a number of standard deliverables that describe the operations, system and data architecture of a product.

Initially this demand was filled by a variety of 2D diagramming tools which create good visual images but without an “intelligent” link to the product design. The DoDAF template for Teamcenter integrates a state-of-the-art diagramming environment with an intelligent database that supports not only the capture and delivery of DoDAF information but also the intelligence of the relationships – creating a multi-user decision support system for use by the services.

This new Teamcenter functionality is available immediately.

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## ***New SmartCAM V16.0 Released***

22 April 2009

[SmartCAMcnc](#) has announced the release to field test of SmartCAM® V16.0. SmartCAM Version 16.0 delivers a variety of new enhancements and capabilities to the SmartCAM suite of computer-aided manufacturing (CAM) system software, including automated toolpath generation directly from a solid model, additional solid model translation, and visualization, verification and usability improvements. SmartCAMcnc plans the standard release of version 16.0 for early June.

The SmartCAM product family consists of applications for Computer-Numerical Control (CNC) milling, turning, fabrication and wire EDM. Version 16.0 continues the Solids-Machining theme found in the past four major SmartCAM releases, with key improvements to both solid data handling and machining directly from a solid.

Version 16 adds new toolpath generation routines for roughing and finishing prismatic pocket and profile features directly from the solid to the mid-level SmartCAM Advanced Milling and SmartCAM Advanced Turning products, as well as the company’s premier milling application, SmartCAM

## FreeForm Machining.

Another major component of the SmartCAM V16 release is a new integrated data translator that now allows both import and export of solid or wireframe models in the STEP format. Additionally, fully integrated, native-file format translators for Autodesk Inventor and SolidWorks are optionally available with SmartCAM V16.0.

“SmartCAM Version 16 is another milestone release for us.” said Doug Oliver, Senior Product Manager at SmartCAMcnc. “Soon after we resumed development of SmartCAM, we added solid model support to all our products, which was a significant advantage for SmartCAM users. Of course this led to our customer’s anticipation of being able to machine directly from those solids. The addition of solids-based roughing and finishing for prismatic parts is a significant advancement in this area.”

“These new toolpath generation capabilities save significant time by eliminating many of steps required with previous versions,” continued Oliver. “They also support full 3D tool offsetting, which allow the fillets, corner rounds and drafted walls that are found on many prismatic parts to now be machined directly from the solid feature. Customers can now accurately cut those features using standard flat, ball, and bull end mills, instead of expensive, custom form tools.”

“When you combine that with the new integrated STEP translator, and the optional native CAD translators, this SmartCAM V16 delivers substantial advances in Machining from Solids.”

Ongoing improvements to the visualization/verification, user interface and usability areas found in several of the most recent SmartCAM releases include:

### **Showpath Tool Motion Verification**

#### ▪ **Persistent Tool Display**

Verification improvements now allow preservation of the tool display while dynamic viewing during toolpath verification, allowing the user to confirm complete machining in a single session.

#### ▪ **Optional Display of Rapids**

In cases where the toolpath contains many rapids, turning off the display of rapids makes it much easier to view the cutting toolpath.

### **ShowCut Material Removal Verification**

#### ▪ **View Change While Paused**

It is now possible to pause the material removal animation, reorient the model display to zoom, pan or rotate, and then continue the animation from the paused point.

#### ▪ **Stock Defined with Voids (holes, slots, etc.)**

Voids in the verification stock model can now be specified by a set of profiles. The void profiles are then extruded (or revolved in the case of a turned part) to form volumes which when subtracted from the stock model allows cast-in features and near-net stocks to be easily modeled.

### **User Interface and Usability Improvements**

- UI optimization for widescreen and dual monitor configurations.
- Reduced mouse movement for faster, more accurate interaction with the CAD and toolpath models.

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## About SmartCAM & SmartCAMcnc

The SmartCAM family of computer-aided manufacturing software provides toolpath modeling and CNC programming for prismatic production work to complex molds, dies, and prototypes. SmartCAMcnc provides affordable maintenance contracts, updates, upgrades and technical support for all SmartCAM users, regardless of version. All SmartCAM products include updated data translators and market-leading NC editing software from Predator Software, Inc ([www.predator-software.com](http://www.predator-software.com)).

SmartCAMcnc is a Springfield, Oregon-based company that was established in December 2003 to develop, sell and support SmartCAM for the benefit of its worldwide customer base of over 12,000 companies in 63 countries. The company has successfully delivered at least two major releases of the software each year since then.

To monitor further developments please visit <http://www.SmartCAMcnc.com>

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## ***Oracle Extends Product Master Data Management Capabilities Through OEM Agreement with Silver Creek Systems®***

21 April 2009

### **News Facts**

Oracle today unveiled Oracle Product Data Quality Cleansing and Matching Server, a new offering based on the DataLens™ System from [Silver Creek Systems®](#), a member in the Oracle PartnerNetwork.

Oracle Product Data Quality Cleansing and Matching Server has capabilities to standardize, match, enrich and correct product data from different sources and systems, using patented semantic-based technology to recognize highly variable product data.

By extending [Oracle Product Hub](#) with data quality capabilities, Oracle enables customers to improve the accuracy, completeness and integrity of their master product data. As a result, customers are equipped to optimize business functions like procurement, new product introductions, channel penetration, reporting, analytics and IT maintenance costs.

As inaccuracies and incompleteness of product information continues to create ongoing challenges in procurement and sales processes, companies are turning to Oracle to effectively harness and manage enterprise product, part and service data.

Industry leading enterprises including Hanjin Shipping, Korean Air, LG Telecom and Pfizer recognize the need for a robust product master data management solution and have invested in Oracle Product Hub.

### **Oracle Extends Beyond Traditional Data Quality Offerings**

Oracle Product Data Quality Cleansing and Matching Server provides capabilities that are not available in traditional customer data quality offerings including:

**Semantic-based Product Data Quality** – Silver Creek Systems' patented DataLens™ technology is based on semantic recognition techniques that can work with even highly variable data across many product categories. This allows recognition, standardization, validation and matching of almost any incoming product information so that only high-quality, standardized data is loaded into the Oracle Product Hub.

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**Auto-learning Product Data Quality** – In order to handle the specifics of product data from a wide range of product categories and in ever-evolving variations, Silver Creek Systems’ DataLens System can infer new rules from previously unseen data and allow the semantic knowledge base to grow through use.

**Applicable Across Industries** – Oracle Product Data Quality Cleansing and Matching Server can work across any industry and can easily adapt to industry-specific product data such as clinical supplies in healthcare, consumer goods in retail distribution, component data in manufacturing, indirect office supplies in public sector or services in telecommunications.

## Supporting Quotes

“Product data quality issues create direct cost and revenue impacts in procurement, operations, new product introductions and customer service,” said Oracle Vice President, PIM and PLM Product Strategy, Hardeep Gulati. “This partnership between Oracle and Silver Creek Systems, is unique in the industry and provides a significant differentiation for Oracle.”

“This relationship brings significant value to customers as the automation of product data quality can reduce the time, costs and risk to implement and operate a product information management system,” said Silver Creek Systems President and CEO, Barbara Mowry. “We look forward to helping Oracle’s current and future customers achieve their operational and ROI goals even faster and with even better results.”

## General Availability

Oracle Product Data Quality Cleansing and Matching Server is available today. Current and prospective customers can add the Oracle Product Data Quality Cleansing and Matching Server to their Oracle Product Hub configuration in order to extend the value of their investment and reduce implementation and operational costs. Terms, conditions and restrictions apply.

## Supporting Resources

[Oracle Product Hub](#)

[Oracle Product Information Management Data Hub](#)

[Oracle Master Data Management](#)

[Oracle PartnerNetwork](#)

[Silver Creek Systems](#)

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## ***ProSTEP iViP Recommendation ECAD/MCAD Collaboration Version 1.2 is now Available***

23 April 2009

The project group ECAD/MCAD Collaboration released the ProSTEP iViP Recommendation PSI 5 in Version 1.2.

The update of the recommendation from version 1.0 to version 1.2 includes the following ameliorations:

- The system- process integration got extended by integrating the ECAD/MCAD collaboration processes into existing PDM/PLM-environments. For this purpose additional use cases and tasks were

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specified and requirements explicitly for PDM systems were formulated.

- Also, the ECAD/MCAD collaboration schema was extended. Thus, mechanisms for the history and traceability on who started the collaboration are e.g. now available, as well as a concept for self-contained messages and possibilities for the transmittance of PC board layouts.
- In addition, new, harmonized namespaces are now being used.

The ProSTEP iViP Recommendation ECAD/MCAD Collaboration (PSI 5 V1.2) as well as the documentation of the schema in HTML are available for download to anyone interested at the Internet site [www.prostep.org](http://www.prostep.org) free-of-charge.

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## ***Siemens PLM Software Significantly Enhances Technical Documentation with S1000D Support in Teamcenter***

22 April 2009

[Siemens PLM Software](#) announced support for the independent S1000D technical publication standard within the integrated [content management solution](#) of its [Teamcenter](#)® software suite. Already adopted throughout the aerospace and defense (A&D) industry, S1000D is being embraced due to its designed intent to reduce the time and costs associated with publishing, exchanging and maintaining technical information.

“Because we deliver a comprehensive PLM portfolio with an integrated content management solution Teamcenter users already had the ability to fully synchronize product documentation activities with product engineering activities,” said Steve Bashada, vice president of Teamcenter Applications, Siemens PLM Software. “With today’s announcement we can now enable all of our customers producing and exchanging technical publications to experience the efficiency provided by the S1000D standard while maintaining the unique advantages of the Teamcenter content management offering.”

### **Better technical documentation**

In today’s global manufacturing environment, most products – especially in the A&D industry – are the result of collaboration among many suppliers with one principle integrator. The technical information about systems, subsystems and components comes from all parts of the global supply chain. S1000D takes a completely data-centric approach to the storage and publication of technical information. Content is broken down into re-usable "data modules" which are managed in Teamcenter as a standard compliant Common Source Database (CSDB). The modules are then retrieved and assembled to meet pre-defined business and structural requirements.

"S1000D is having a major impact on publications in the A&D space," said Rick Schochler, COO of Crowell Solutions, a Dallas, Texas based consultancy specializing in business intelligence, content management/S1000D and application development. “One of the major topics that groups are dealing with is how best to handle parts information within an S1000D environment. The ability to reuse product data straight from the engineering source is a huge advantage to writers who need to insure part information is accurate with respect to product configuration. Teamcenter content management provides the ability to do this by pulling publications staff into the engineering repository and sharing that info."

Using Teamcenter with S1000D support, customers can change, control and configure technical information in a collaborative environment that ensures documentation will be synchronized with the

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product and conform to the standard. The result provides customers with the opportunity to produce more sophisticated documentation in less time and at a significantly reduced cost. In addition, consumers of the information get documentation in a format that is understandable and predictable, and therefore easier to use.

## **Proven solution for content management**

The content management capability in [Teamcenter](#) is a dynamic publishing solution integral to the overall PLM process, enabling companies to automate the assembly and publishing of product or service information in multiple languages and formats. The offering builds on the state-of-the-art data management and collaboration technology of Teamcenter, to deliver a content management solution that treats product-related documentation as an intrinsic part of the product itself. The result is a proven solution that eliminates the manual, repetitive, error-prone steps typically associated with the development of technical publications. Using this content management solution, companies can develop richer, more interactive and accurate documentation that is synchronized with the underlying product data and can be generated in less time and with less resources. Teamcenter also makes it easy to localize documentation with multiple language support, compile content to reflect product variants, or adapt to match a customized product and deliver that content by appropriate means.

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## ***Spatial PMI with CAD Translation Key Component of INUS Technology's Software Solution***

21 April 2009

Spatial Corp. delivers product manufacturing information (PMI) for INUS Technology's newest point-cloud inspection software release, Rapidform® XO2/Verifier™2. Rapidform XO2 utilizes Spatial's 3D InterOp with Manufacturing Option to deliver 3D PMI-ready professional metrology-level inspection for its manufacturing customers. The product provides high-quality CAD and PMI translation from CATIA V5, Pro/Engineer Wildfire, and Siemens NX.

Ongoing pricing pressure, reduced delivery schedules and higher quality standards are driving the need for change in inspection processing. Spatial is working closely with its industry partners to identify solutions to address these challenges. Spatial's CAD translation and semantic PMI support provide the foundation for development partners to bring differentiated solutions to market.

The ability to work with native PMI data and CAD files improves accuracy and eliminates the need for redundant data entry delivering up to a 20% reduction in man-hours in the inspection planning process. By automating this part of the inspection process manufacturing suppliers can better compete with improved product quality, reduced delivery times and reduced costs.

“Rapidform XO2's ability to import native GD&T annotations (PMI) is a major advancement for inspection planning and part validation. Spatial's high-quality CAD translation components have been used in our products for many years,” stated Calvin Hur, Senior Vice President, Marketing & Global Sales for INUS Technology. “When we planned native PMI translation, Spatial was the natural choice. Their 3D InterOp with Manufacturing Option provides all the information our customers need.”

“Spatial continues to deliver components that help companies like INUS Technology maximize their competitive advantage through efficient development and end-user productivity,” notes Jerry Walters, Spatial's Vice President of Marketing, Sales and Field Services. “By providing our customers with high-quality component products and support we make it possible for partners to grow their business and be

more competitive.”

### **About INUS Technology, Inc.**

INUS Technology develops advanced 3D scan data processing software. The company’s software solutions are popular products for reverse engineering and inspection of 3D scan data worldwide. Rapidform makes 3D scanning a powerful tool for a variety of applications and is used in manufacturing, R&D, quality inspection, medical research and civil engineering. Leading companies including Audi, Ford, Hyundai, Toyota, Rolls Royce, Volkswagen, Hitachi, Panasonic, Oakley, Samsung, Sony, Lufthansa, Alcoa, and Benteler, use Rapidform’s advanced technology to innovate throughout their research, design, manufacturing and quality control processes. For more information and on-demand product demonstrations, visit <http://www.rapidform.com>.

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