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## Top Story

### ***Siemens PLM Software Delivers the Next Big Breakthrough in Digital Product Development With Synchronous Technology***

22 April 2008

Siemens PLM Software announced the next big breakthrough in digital product development with synchronous technology, the PLM industry's first-ever history-free, feature-based modeling technology that provides users with up to 100 times faster design experience than ever before.

Launched via a global webcast in conjunction with Hannover Fair, Siemens PLM Software's new patent-pending technology combines the best of constraint-driven techniques with direct modeling, and is being integrated into the company's next versions of NX™ and Solid Edge® software.

"Siemens recognized the huge potential of synchronous technology during the due diligence process of acquiring UGS," said Anton Huber, CEO, Siemens Industry Automation Division. "Knowing that the digital model is at the heart of our shared vision to unify the product and production lifecycles, we have worked together to accelerate this breakthrough in CAD technology. The digital model impacts every phase of the PLM process and is key to delivering innovation faster than ever before. This technology will fundamentally change the way manufacturers design products and enable them to accelerate their innovation process, ultimately driving increases in top line revenue."

"This new synchronous technology is indeed a breakthrough," said Jack Beeckman, PLM manager, Liebert Corp. "It marks a new era in modeling that allows an engineer the freedom to be an engineer. With an instantaneous modeling experience, this is going to change the way people think about using CAD. More importantly it's going to change the way CAD enables them to think about 'what' they want to model, and not 'how' they want to model."

#### **First-Ever History-Free, Feature-Based Modeling**

The technology is the first-ever design solution that simultaneously synchronizes geometry and rules through a new decision-making inference engine. It accelerates innovation in four key areas:

**Fast idea capture:** Synchronous technology captures ideas as fast as the user thinks them, with up to 100 times faster design experience. Designers can devote more time to innovation with new techniques that provide the efficiency of parametric dimension-driven modeling without the computational overhead of pre-planned dependencies. The technology defines optionally persistent dimensions, parameters and design rules at time of creation or edit, without the overhead of an ordered history.

**Fast design changes:** The technology automates the implementation of planned or unplanned design changes to seconds versus hours thorough ease of editing, regardless of design origination, with or without the presence of a history tree.

**Improved multi-CAD reuse:** The technology allows users to reuse data from other CAD systems without remodeling. Users can succeed in a multi-CAD environment with a fast, flexible system that enables them to edit other CAD system data faster than they can in the original system, regardless of the design methodology. A technique called "suggestive selection" automatically infers the function of various design elements without the need for feature or constraint definitions. This increases design reuse and OEM/supplier efficiency.

**New user experience:** The technology provides a new user interaction experience that simplifies CAD

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and makes 3D as easy to use as 2D. The interaction paradigm merges historically independent 2D and 3D environments, providing the robustness of a mature 3D modeler with the ease of 2D. New inference technology automatically infers common constraints and executes typical commands based on cursor position. This makes design tools simple to learn and use for occasional users, driving downstream use to manufacturing engineering and the shop floor.

“While there have been important advances in 3D design technology over the years, designers have not been able to create persistent features without the computational overhead needed to re-compute models from the construction history,” said Chuck Grindstaff, executive vice president of Products, Siemens PLM Software. “Traditional parametric modeling serially applies rules to geometry, helping to automate planned change but not addressing unanticipated engineering changes. History-less modeling concentrates on geometry in an unconstrained manner, but sacrifices intelligence and intent. Direct editing minimizes the need to understand a complex history but does not address features.

“Our new synchronous technology incorporates the best of constrained and unconstrained techniques to deal with change in an extremely powerful and efficient manner. Applying the right technique to the job at hand, enables dimension-driven modeling to reach its full potential, generating tremendous productivity gains over traditional methods.”

## Availability

The patent-pending technology was jointly developed between Siemens PLM Software’s NX and Solid Edge organizations. Siemens PLM Software’s synchronous technology will be implemented in the next versions of both Solid Edge and NX as a proprietary application layer built on its D-Cubed™ and Parasolid® software. The next versions are scheduled for launch on May 21 at the annual Siemens PLM Software Analyst and Media Conference in Boston.

For information on today’s announcement, join the global launch webcast at 9 a.m. CDT or view a replay at <http://www.siemens.com/plm/breakthrough>.

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## Acquisitions

### ***BlueCielo Acquires CAD & Company’s ECM Division***

23 April 2008

BlueCielo ECM Solutions announced that it has acquired CAD & Company’s ECM division and its ImandrA suite of products – a move which strengthens its market leadership position in Engineering Content Management solutions. For BlueCielo, the acquisition means a strategic expansion of its product portfolio with increased synergy in the areas of product development and internationalization. Selling its ECM division enables CAD & Company to focus completely on delivering, integrating and providing support for its design and ICT solutions for the construction and metal-processing industries.

“The ImandrA product suite and CAD & Company’s ECM team represent a strategic extension of our core operations,” states Martijn Janmaat, BlueCielo’s CEO. “Because ImandrA is based on IBM’s FileNet, we will be expanding the acquired activities internationally in collaboration with IBM and specialist partners. The acquisition represents a clear win-win situation for both parties because BlueCielo is fully specialized in developing and marketing ECM solutions internationally, and it enables CAD & Company to devote all its attention to design solutions. Of course we are also very happy with

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the large ImandrA user group, which includes well-known companies like Arcadis, BAM Groep and Gasunie.”

“Because delivering, integrating and providing support for design solutions involves an entirely different line of work than product development and international distribution, I have decided to sell our ECM division to an expert,” explains Rob Oud, managing director of CAD & Company. “It will allow the 10-man team to expand the ImandrA operations much more effectively from the basis of an autonomous division and respond to growing international interest. And since BlueCielo has over 20 years of experience, I am confident that both the customers and employees of our ECM division are in good hands.”

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## CIMdata News

### ***A New CIMdata Program Review of PDM Technology's BlueStar PDM/PLM for Microsoft Dynamics AX***

25 April 2008

CIMdata consulting and research firm announces the availability of a new program review of PDM Technology's BlueStar PDM/PLM for Microsoft Dynamics AX. The paper describes PDM technology's BlueStar PDM/PLM solution and the benefits that result from it being developed on top of an enterprise resource planning (ERP) solution's information technology (IT) platform. The review also provides a program and product assessment that is based on BlueStar PDM/PLM (BlueStar) version 4.0; an engineering-centric PLM solution developed on top of Microsoft Dynamics AX's ERP platform.

In addition to the review of the BlueStar program, the paper looks at the business reasons why companies in particular industries are being driven by and benefiting from the development and implementation of tight business process and IT integrations between their development environment and ERP system(s). According to Peter A. Bilello, CIMdata' Director of Consulting Services, “PDM technology has delivered a hybrid PLM solution that tightly integrates the advantages commonly found in an engineering-centric PLM solution with a manufacturing-centric ERP solution's robust enterprise platform capabilities.” Mr. Bilello goes on to say that “companies who have implemented or are thinking about implementing Microsoft Dynamics AX should consider BlueStar for its PLM capabilities.”

For more information please contact CIMdata at +1(734) 668-9922. Copies of the BlueStar PDM/PLM for Microsoft Dynamics AX Program Review are available at no cost through the CIMdata [website](#).

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### ***CIMdata Highlight: Siemens PLM Software's Synchronous Technology Announcement***

22 April 2008

Siemens PLM Solutions announced today a major technology that significantly enhances their CAD users' capabilities to work in multi-CAD environments. This technology, called Synchronous Technology, allows NX and Solid Edge users to import and modify design data developed in many different CAD systems. Significantly, this technology expands the ease with which users can work with the imported data by allowing them to work on CAD models without having to know how the model

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was originally created; that is the historical context of the creation process and the feature and parametric constructs used to create the design. In other words, they do not have to follow any historical procedures and they do not have to be concerned with the order in which the original designer created features and parameters that comprise the model.

Synchronous Technology can automatically recognize certain types of features, can create a feature from a collection of user selected geometry, and infers parametric controls such as parallelism from user actions (selections) that subsequently can be used to modify the model. They can directly copy features from one model to another. A capability that we believe is unique to Synchronous Technology is that users maintain complete control over which parameters and features are stored with their imported, then saved models. This will allow users to return to the design later and continue working on saved features or making additional modifications freely without regard to any saved features.

Importantly, while some of the techniques available in Synchronous Technology have been demonstrated in other CAD systems, this is the first time a CAD provider has provided such an extensive capability within a major CAD solution. Synchronous Technology allows designers great flexibility in creating and modifying designs created in other CAD solutions. While the actual performance of these new techniques will need to be determined through actual use, they appear to be very fast and easy to use when compared to history-based solutions. Synchronous Technology is a major addition to the capabilities found in NX and Solid Edge and has potential application well beyond design. It should provide direct benefits to the multitude of organizations that use NX or Solid Edge and have to work with data from multiple CAD solutions.

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## Company News

### ***Aras Brings Enterprise Open Source on Microsoft to the PLM Market in EMEA***

24 April 2008

Aras® announced expanded operations throughout Europe, Middle East, and Africa [EMEA] and opened an EMEA headquarters office in Solothurn Switzerland to meet the growing demand for the Aras Innovator enterprise software solutions. As part of the expansion, Aras plans to add sales and support operations and extend the partner network across the region to provide local geographical representation.

Aras provides the Aras Innovator suite of solutions for enterprise Product Lifecycle Management, New Product Development & Introduction, and Advanced Product Quality Planning enabling companies to collaborate and innovate more effectively.

“Companies of all sizes around the world increasingly recognize the strategic importance of an enterprise-wide PLM strategy that helps them achieve better collaboration and innovative to drive profitability,” said Ed Miller, President of CIMdata. “Aras’ open source model provides a new value proposition for the PLM market that a number of companies will find attractive, with the elimination of software license expenses companies no longer need up-front capital.”

Aras Innovator provides complete access for unlimited users at no cost. Because there is no charge for the enterprise production-ready software, Aras removes the need for up-front capital and eliminates expensive software licensing requirements for users, modules, and servers.

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“Businesses are demanding a new approach that delivers results. Microsoft enterprise open source provides more innovation and better value than conventional systems can ever achieve,” said Martin Allemann, Vice President EMEA for Aras. “Our expansion brings a proven alternative to companies throughout the region that offers both significant business benefits and the most advanced enterprise solutions available for PLM business processes.”

Available exclusively on the Microsoft .NET platform, Aras Innovator’s open enterprise service-oriented architecture [SOA] delivers flexibility enabling companies to deploy and adapt while maintaining upgradeability.

“Freudenberg Dichtungs- u. Schwingungstechnik’s [FDS] multi-national rollout for advanced product quality planning [APQP] using the Aras enterprise PLM solution is the first time a company-wide standard system has been implemented this quickly and easily,” said Axel Vondermuehl, Manager of PLM and Collaboration at Freudenberg FDS. “As the global corporate standard, Aras will be used at 20 sites across 6 countries. The added control of the open model combined with Aras Innovator’s advanced enterprise SOA on Microsoft enables us to increase efficiency through business processes standardization while providing us with greater flexibility than previously possible with conventional systems.”

Contact the new Aras EMEA Headquarters at [infoEMEA@aras.com](mailto:infoEMEA@aras.com)

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## ***Capvidia Expands North American Operations***

21 April 2008

Capvidia welcomes Bruce Stein as the Regional Sales Manager for the Great Lakes Region. Stein will be responsible for sales of Capvidia’s data translation product 3DTransVidia, CompareVidia for comparing 3D models, and FlowVision for complex CFD simulations.

Bruce began his CAD career in 70’s. He worked for Dana Corporation, Computervision, SDRC, Aero Detroit and others pioneering CAD and PLM solutions in automotive industry. He has worked with every major automotive company and Tier 1 suppliers in the Detroit area. He brings to Capvidia a deep understanding of the industry needs and process, acquired through various technical and commercial positions at the leading engineering software companies.

Capvidia’s 3DTransVidia is a CAD Translation/Healing/Repair tool that enables CAD Users including CATIA, UG-NX, I-DEAS, Pro/E, AutoCAD, Solidworks, SolidEdge and Autodesk Inventor to open “native” or “neutral” CAD files without having a CAD license. These CAD users can then use a variety of included capabilities to translate, repair and heal CAD models and make them suitable for their Engineering or Manufacturing process. Users can also Validate CAD models against each other to understand if they are different or the same in scenarios including native vs. native, native vs. neutral and neutral vs. neutral, without having any CAD licenses.

Capvidia is also well known in the SolidWorks community with its products FormatWorks for data translation, and FaceWorks for Mold Design. In January the company announced new FormatWorks offerings for SolidWorks Users.

- [FormatWorks2008 Ultimate](#) (New) - is designed for companies with limited budget and need to improve existing SolidWorks translation capabilities and get access to unsupported CAD formats like native CATIA V4/V5 data. We offer unlimited translations from/to all Capvidia data formats.

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- [FormatWorks2008 Professional](#) (New) - Suited for customers importing large native CAD models and complex assemblies to SolidWorks. Selective translation allows to get into SW only parts of the model you are interested in resulting in light and workable models in SW. Batch translation enables automatic translation of multiple data sets automatically.
- [FormatWorks2008 Server](#) (New) – For customers requiring multiple data translation seats, large corporations working in multi-CAD environment, floating and multiple user solution.

For more information contact: [info@capvidia.be](mailto:info@capvidia.be)

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## ***Gerber Technology Inaugurates First Advanced Technology Center (ATC) in SouthEast Asia***

9 April 2008

[Gerber Technology](#), a business unit of Gerber Scientific, Inc. of USA, officially opened its Advanced Technology Center (ATC) in Ho Chi Minh City, Vietnam on Tuesday, April 8, 2008, with a celebration that included over 150 guests, including representatives of media, government and customers, as well as local and overseas partners. Mr. Bui Xuan Khu, Permanent Vice Minister of Industry and Trade, was chief guest at the opening ceremony together with Mr Kenneth Fairfax, US Consul General, and Marc Giles, president and CEO of Gerber Scientific, Inc.

Currently in Vietnam there are about 200 domestic and foreign-invested companies using more than 500 Gerber systems. These companies include Vinatex, Viet Tien, Thanh Cong Garment, Protrade, 10 Garment, Thang Long, Duc Giang, Nam Dinh Garment, Nam Dinh Textile, Hai Phong 2, Triumph, Adidas, Mascot and Urban Sofa. These companies are not only an important factor in Vietnam's continuing growth and export strategy, but also in increasing employment for the country.

Gerber's ATC in Ho Chi Minh City is a 750m<sup>2</sup> (8,000ft<sup>2</sup>) facility which was developed to provide product demonstration, training, and to showcase the company's systems; Gerber has invested \$1 million on the building, offices and systems. Customers will be able to visit and see demonstrations of state-of-the-art automated spreading systems, multi-ply cutting systems, new-generation plotting, digitizing and computer-aided design applications. The center offers product testing and training for customers, engineers, designers, and industry students nationwide. It is the first center of its kind in SouthEast Asia, and will also serve the needs of apparel and related industries in the neighboring countries, including Cambodia, Laos, Thailand, Malaysia, Singapore and Indonesia.

"In recent years, Vietnam has emerged as an attractive market, providing opportunities for businesses, service providers, and manufacturers around the world. Local industry is enjoying significant growth in apparel manufacturing activities, and Gerber is highly involved with this growth. The company established a Wholly-Foreign-Owned Enterprise (WFOE), with headquarters in Hanoi, in May, 2007. In addition to the Hanoi office and the new Advanced Technology Center in Ho Chi Minh City, a service location will open in Danang in the near future," said James Arthurs, President Asia-Pacific, Gerber Scientific, Inc.

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## ***Mentor Graphics Names New Vice President***

24 April 2008

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[Mentor Graphics Corporation](#) announced the promotion of Simon Bloch to vice president and general manager of the Design and Synthesis Division. Bloch is responsible for Mentor Graphics' field programmable gate array (FPGA) and Electronic System Level (ESL) design and synthesis products. He is based in Mentor's San Jose, California offices and reports to the company's president Gregory K. Hinckley and chief executive officer Walden C. Rhines.

Bloch joined the company in 2002. Prior to Mentor he was founder and CEO of Aristo Technology and held senior management positions at Compass Design, VLSI Technology and Daisy Systems working on integrated circuit (IC) design technologies in the front end and physical design flows. Before he entered the electronic design automation industry, he designed application specific ICs (ASICs) and hardware/software systems in telecommunication applications at Tadiran Electronics. Bloch earned a bachelor's degree in electrical engineering majoring in microelectronics, computers, and medical equipment from Tel Aviv University.

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## **New Dedicated Website for WorkPLAN Enterprise from Sescoi**

23 April 2008

To support its new generation ERP system, WorkPLAN Enterprise, Sescoi has gone live with a dedicated website [www.workplan-enterprise.com](http://www.workplan-enterprise.com) which provides in depth information about the capabilities and benefits of the new software.

WorkPLAN Enterprise is a comprehensive management system developed for custom manufacturers such as mold and die makers, and companies producing special machines, prototypes and patterns. It gives extensive control and up to the minute information without the complexity normally associated with ERP

The website explains in detail how the software covers all aspects of the business including quotations, sales, planning and 'what if' simulation, purchasing, time management, quality compliance and key performance reporting. The site also helps companies to understand how ERP can help a business to flourish by increasing the accuracy of quotations, costing, and performance information, which will in turn have a direct impact on the levels of profitable business won, and margins achieved. White papers on the site provide an in depth look at different aspects of ERP, and factors such as specialized knowledge, modularity and maintenance which need to be considered when choosing a system for a particular industry.

The WorkPLAN Enterprise system has been designed with ease of use in mind and the site explains how this has been achieved and its importance for a rapid and successful implementation. WorkPLAN Enterprise has industry best practice built in. Visitors to the site will be able to look at what this entails and use the return on investment pages to assess areas of a company's business such as administration, stock levels and planning, that can be made more efficient through the introduction the system.

According to Sescoi, savings can be between \$45,000-120,000 (£25,000- £60,000) per year.

Coming soon on [www.workplan-enterprise.com](http://www.workplan-enterprise.com) will be video demonstrations of the software, detailed customer case studies, as well as numerous white papers, making the site a valuable source of information for manufacturing companies. Interested parties can already sign up for an online personalized demonstration of the software at their convenience. There will be 8 dedicated country sites in 6 languages by the end of the year, with further languages to follow in 2009.

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## Events News

### **Avatech Solutions Presents Autodesk 2009 Technology for Building Design and Engineering Professionals**

22 April 2008

Avatech Solutions, Inc. announced their free 2009 Autodesk Rollout series of events for architects and building systems engineers. The new 2009 series of products from Autodesk allows architects and engineers explore ideas and experience designs before they're real by evaluating "what if" scenarios before anything is built. Avatech Solutions' design, mechanical, electrical and plumbing engineering experts will take attendees on a tour through the latest features that will impact the way they work, and open a world of innovation. Attendees can get answers from certified Autodesk experts and learn how to increase productivity, reduce errors, and save valuable time.

#### **ARCHITECTURE TRACK**

##### **AutoCAD 2009**

AutoCAD 2009 has a new user interface, Action Recorder and improved Layer Properties Manager. XREF clipping will also be highlighted. Subscription clients also receive the latest version of Autodesk Impression, a software tools that allows you to create compelling presentation graphics with a hand-drawn look from DWG and DWF files.

##### **AutoCAD Architecture 2009**

Draw more efficiently with tools that automate many of the most common drafting and documentation tasks. Annotate designs faster with streamlined tools that eliminate repetition. Collaborate with members of an extended project team.

##### **Revit Architecture 2009**

New tools help you navigate, visualize, create, and share complex 3D designs. New enhancements offer greater control and flexibility, which enable designers to create, produce, and deliver projects that adhere to the styles and standards. Higher performance and better integration with third-party applications make Revit Architecture more efficient.

##### **Revit Structure 2009**

Revit Structure 2009 provides enhanced structural modelling capabilities and improves automation of many drafting tasks. Improved navigation and visualization of designs improves efficiency and reduces error.

##### **3ds Max Design 2009**

New lighting simulation and analysis technology including numerous new rendering capabilities, along with improved compatibility that enhances continuity with Revit and AutoCAD product families. Exposure lighting analysis technology assists in evaluating light intensity for LEED 8.1 certification.

#### **MECHANICAL ELECTRICAL PLUMBING TRACK**

##### **AutoCAD 2009**

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AutoCAD 2009 has a new user interface, Action Recorder and improved Layer Properties Manager. XREF clipping will also be highlighted. Subscription clients also receive the latest version of Autodesk Impression.

## AutoCAD MEP 2009

Increase efficiency with improved drafting productivity. Move seamlessly from traditional drafting processes and produce accurate construction documentation in less time.

## Revit MEP 2009

Mechanical comes with new spaces and zones, improved layout tools, and more mechanical settings. Electrical provides more electrical settings, circuit creation flexibility, export lighting data to IES<VE>. New modeling capabilities, navigation improvements, enhanced Max linking, and extended API make this version more versatile

## 3ds Max Design 2009

New lighting simulation and analysis technology including numerous new rendering capabilities, along with improved compatibility that enhances continuity with Revit and AutoCAD product families. Exposure lighting analysis technology assists in evaluating light intensity for LEED 8.1 certification.

## Locations, Dates and Times

Rollout events are held from 8:00 a.m. to noon and include a free continental breakfast.

Baltimore, MD Thursday, May 8

Cedar Rapids, IA Tuesday, May 20

Chicago, IL Tuesday May 14

Cleveland, OH Wednesday May 6

Des Moines, IA Wednesday, May 8

Indianapolis, IN Thursday May 15

Omaha, NE Wednesday May 7

Raleigh, NC Wednesday May 14

Richmond, VA Tuesday May 13

Tampa, FL Tuesday, May 6

Virginia Beach, VA Wednesday

To Register

Register online at [www.avatech.com/web/2009](http://www.avatech.com/web/2009) or call 1-800-520-8000 to attend these free events. Participants are urged to register now to secure their space.

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## Bentley Best Practices for Sustaining Infrastructure

April 2008

BE Conference 2008 is offering a lineup of best practice sessions. But in addition, the agenda will

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include technology update sessions on many Bentley products.

A special **two hour product session dedicated to OpenPlant**, the set of products completely built on the ISO 15926 data model, will keynote these technology sessions. Other product and technology sessions of particular interest to those of us in the plant engineering and construction industry include:

- Front-End Engineering & Design** – showing how [AXSYS.Process](#), [PlantWise](#), and [OpenPlant Power PID](#) address the management of process data and the creation of P&ID's to [ISO 15926](#) standards.
- **Instrumentation & Electrical** – covering Bentley's products for [instrumentation](#) design, [electrical engineering](#), intelligent schematic and panel layout using [promis\\*e](#)
- **Plant Engineering** – detailed design of Oil & Gas facilities plus engineering solutions for [Pipe Stress Analysis](#), flow analysis, stress analysis of equipment nozzles etc.
- **Plant Data Management** – managing and navigating engineering data with [ProjectWise](#), [PW Lifecycle Server](#), and [PW Navigator](#)
- **Project Team Collaboration using MicroStation and ProjectWise** – new engineering productivity enhancements for modeling and design
- **AutoPIPE Nuclear Powered by ADLPipe** – enhanced application for nuclear ASME III class 1,2, and 3 safety related pipe stress design
- **Water and Wastewater Treatment Plant Design** - how PlantSpace can be used for functional and 3D physical design of treatment plants
- **Structural Engineering** – modeling, analysis and detailing with updates on [STAAD](#), [Bentley Structural](#), [Pro-Steel](#), Pro-Concrete, and [RAM](#)
- **Survey, Site and Resource management** - using Bentley [Geospatial](#) and [Civil](#) products

Product and technology updates, user best practice presentations, BE Award project recognition and the opportunity to network with industry colleagues within your solution community provide a compelling reason to attend ***BE Conference 2008, May 28-30 in Baltimore Maryland.***

For more information on all the product and technology sessions, see the complete conference agenda and to register click [here](#).

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## **CGTech to Show VERICUT 6.2 at IMTS**

18 April 2008

[CGTech](#) will exhibit the latest version of VERICUT CNC machine simulation and optimization software at the [IMTS](#) show in booth D-3035

VERICUT 6.2 features several enhancements that increase the ability of manufacturing engineers to develop, analyze, inspect and document the CNC programming and machining process.

“VERICUT sits in a unique position in the process chain, in between the creation of the NC program and its physical application on the shop floor,” said Bill Hasenjaeger, Product Marketing Manager.

“VERICUT software development is driven by the evolutionary changes in manufacturing technology: new CAD/CAM software features, new machines and tooling, new machining techniques and processes, and our customers’ needs to implement and improve on these changes. VERICUT 6.2 includes several new innovations to simplify validating even the most complex configurations in order to produce better results and reduce the time spent in the programming and machining cycle.”

### **VERICUT Product/Function Overview:**

VERICUT is CNC machine simulation, verification and optimization software that enables users to eliminate the process of manually proving-out NC programs. It reduces scrap loss and rework. The program also optimizes NC programs in order to both save time and produce higher quality surface finish. VERICUT simulates all types of CNC machine tools, including those from leading manufacturers such as Mazak, Makino, Matsuura, Hermle, DMG, DIXI, Mori Seiki and Chiron. VERICUT runs standalone, but can also be integrated with leading CAM systems such as Catia V5, Unigraphics, Pro/E, MasterCAM, EdgeCAM and GibbsCAM.

### **NC Program Review Enhancements**

A new “NC Program Preview” offers an option to process an NC program in VERICUT without actually simulating material being removed. This “quick check” is very fast and uses much less memory. When in preview mode, VERICUT displays a tool trace of the NC program over the design model. Preview checks for collisions, gouges, minimum excess and instances where axis limits are exceeded. At the end of the preview VERICUT enters NC Program Review mode.

Several new utilities have been added to the NC Program Review window. These include: a calculator, user-configurable text coloring, syntax checking and block renumbering options. The syntax check enables users to check the NC program for syntax errors based on a user defined set of criteria. This feature is also accessible from the NC Program Review editor. Users can turn On/Off VERICUT defined syntax checking rules (error conditions) and define custom syntax checking error conditions. Users who manually create and edit NC programs can now transfer NC blocks from the MDI window directly into the NC Program.

### **New Tool Setup Wizards**

Complimenting the milling tool setup wizard introduced in VERICUT 6.0, a Turret Setup wizard has been added. The new Turret Setup enables users to easily load, change tools, or change tool positions in a turret. Users can also easily create a swept model of a turret.

The Tool Manager has also been enhanced to enable users to describe the shape, position, and

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orientation of a waterjet cutter or a tap in a tap tool assembly.

## Simulate Tapping

VERICUT now supports simulation and analysis of tapping operations. Tapped holes are visually differentiated from other drilled/bored/reamed holes. VERICUT checks for correct feed rate and direction when using a tap tool, and also detects if the tap hole is pre-drilled too small.

## More Powerful X-Caliper

X-Caliper allows users to measure thickness, volume, depth, gaps, distances, angles, hole diameters, corner radii, scallop heights, etc. VERICUT 6.2 can now directly measure the depth of blind holes as well as the top and bottom radius of a countersink. Picking a hole returns the center point.

X-Caliper can also be used to measure the distance between the tool and the stock, and shows the thread features of a tapped hole (e.g. pitch threads/inch (or mm), etc.), like it does for turned threads.

## Create Setup Plans with Dimensions

A new Setup Plan window is added enabling users to add dimensions or notes to create a drawing of a setup lay-out or setup plan. The setup plan is stored in the VERICUT session and can be output in a VERICUT report.

## AUTO-DIFF™ Precision

AUTO-DIFF enables users to automatically detect differences between a CAD design model to a VERICUT simulated cut part. The AUTO-DIFF Surface Range tables now include a value to represent surface cuts exactly matching (i.e. with no deviation from) the design model. A separate color can be designated for these features.

Additionally, the design model now moves with the cut stock as it transitions between setups. It also moves with the cut stock when the cut stock is manually moved via the Modeling window.

## CAM Interface Updates

The CATIA V5-to-VERICUT Interface (CATV5) has been updated to:

- enable selecting CATIA sub-programs.
- retrieve cutting tool descriptions from CATIA Resources.
- set the VERICUT working directory to the location specified in CATV5.
- create no table entries, when desired.

The NX-to-VERICUT Interface (NXV) (formerly the Unigraphics-to-VERICUT Interface (UGV)) has been updated to:

- support merging the tools in the current NXV session with those in the setup template.
- remove Program Groups that a user does not want to export to VERICUT. Removed program groups are still saved with the NX part.
- query the Geometry in NX to identify the CSYS names and add them to a pull down list for the "Program Zero To CSYS" on the Options menu.
- no longer require specifying Model Location CSYS prior to selecting the operation's geometry (Part, Stock/Blank and Fixture/Check).

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- support TLDATA/GROOVE, LEFT/RIGHT, OUTSIDE/INSIDE, w, r1, r2, d, a1, a2, hh, hw in an NX CLS file.

## Group Travel Limits

Travel Limits in both the G-Code Settings window and the Machine Settings window is enhanced to include soft limits, step limits and grouping. You can put conditions on travel limits and activate different groups of limits using Macros.

## Additional Enhancements

VERICUT is enhanced to support milling on turning stock and is considered a valid cutting operation for any tool/stock orientation (on-center, or off-center). Full VERICUT support for such motions is implemented (X-Caliper, .vcs files, Model Export etc.).

Support is added for multi-axis water jet cutting operations.

VERICUT now supports pocket cycles in the XY, YZ, and ZX motion planes.

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## **ECS GmbH at SAPPHIRE 08 from 19/5 to 21/5/2008 in Berlin**

24 April 2008

As a SAP Software partner ECS GmbH offers once again their certified integrations for external PLM systems to the SAP eco system at SAPPHIRE, the largest European SAP event of the year. All solutions are based on the future-oriented SOA technology, either SAP NetWeaver XI/PI or the RIA platform eCenter. ECS will offer a live demo showing the latest Teamcenter Release 2007.1 (Unified Architecture) with SAP ERP 2005 (ECC 6.0). The following solutions will be presented live:

- eCenter 6.0 in a combined system scenario (PDM and ERP) on platform of the SAP NetWeaver Application Server as well as combined with icm2 (material data base)
- Business Package for PLM Objects for the enhancement of SAP NetWeaver Portal solutions in respect to external EDM/PDM functionality and PLM data
- PLM Integrator 2.1 for a seamless backend integration of EDM/PDM/PLM systems into the Exchange Infrastructure (XI/PI) of SAP NetWeaver (so called XI Adapter)
- ERPxPDM 1.1 for a quick setup of customer specific exchange scenarios for product defining data on platform of the SAP NetWeaver XI/PI

Visit us at SAPPHIRE 08 from 19/5 to 21/5/2008 in Berlin at booth DI 2.4 in hall 3.2 within the “Village for Discrete Industries”.

To learn more about this important European SAP Customer event please take a look at the specific SAP homepage for this event: <http://www.sapsapphire.com/emea2008>.

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## **Dassault Systèmes Showcases V6 Platform and PLM 2.0 Strategy at Next-Generation PLM Seminar**

22 April 2008

Dassault Systèmes (DS) announced that its Next Generation PLM customer day in Beijing, China,

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brought together more than 200 of China's leading executives from companies across multiple industries including industrial equipment, semiconductor and high-tech to showcase V6 which is Dassault Systems' next generation platform for PLM 2.0.

As one of the key presenters, Mr. Andy Kalambi, vice president and general manager, ENOVIA Asia, Dassault Systèmes, will focus on how Dassault Systèmes' V6 strategy is helping to shape PLM 2.0. The concept of PLM 2.0 is designed to support innovation by creating an online 3D environment which will enable everyone, from creators to collaborators to consumers, to share ideas, create intellectual property and bring products to life. Rob Shinno, global director, Hi-Tech Strategy & Solutions, ENOVIA R&D, Dassault Systèmes, will present "PLM 2.0: V6 - Next-Generation PLM Collaboration" and "Profitable Innovation for Hi-Tech and Semiconductor Companies."

"China's rapid economic growth and its emergence as one of the world's key manufacturing centers represent a huge opportunity for long term success and innovation. The introduction of the V6 platform and the concept of PLM 2.0 provides the tools and business processes required to drive innovation and return on investment by fostering global, multi-functional collaboration and helping to capture an organization's collective intelligence," said Mr. Andy Kalambi, vice president and general manager, ENOVIA Asia, Dassault Systèmes.

Dassault Systèmes' V6 PLM strategy, unveiled in January 2008 and scheduled for general availability in May, delivers a single PLM platform for all PLM business processes, available to anybody anywhere, spanning engineering groups, business and end users. V6 also gives intelligent access to all IP no matter the data source location, with ENOVIA MatrixOne technology built into the foundation.

"With a strong regional presence and deep local expertise, we believe that Dassault Systèmes is well positioned to be the catalyst for thought leadership in the development of PLM best practices for the Chinese market," said Mr. Zhao Heng, Vice President, Greater China Value Channel , Systèmes. "The launch of V6 demonstrates our commitment to long term success while also providing our customers, including industry leading companies such as Yan Tai Raffles Shipyard, Chengdu Aircraft Industrial Group, National Erzhong Group Company and Dong Feng Electric Machinery, with a clear technology migration path."

ENOVIA's collaborative PLM environment addresses customers' requirements across all product and business processes, from small-scale teams to extended enterprises with many thousands of users. In Asia Pacific, ENOVIA works with customers in markets including automotive, high tech, industrial equipment and semiconductor.

For more information please visit <http://www.3ds.com/cn>

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***Dassault Systèmes to Showcase Next Generation PLM Solutions at ENOVIA Americas Customer Conference, May 6-9, 2008***

22 April 2008

Dassault Systèmes (DS) released further details about its upcoming ENOVIA Americas Customer Conference (EACC) which will be held at the Orlando World Center Marriott in Orlando, Florida from May 6-9, 2008. Themed "Learn. Network. Share. Succeed," the event will provide an excellent opportunity for hundreds of executives from a broad array of industries, to learn more about Dassault Systèmes' V6 PLM platform and the newest ENOVIA solutions.

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EACC will allow ENOVIA customers to understand the concept of “PLM 2.0” and experience Dassault Systèmes’ V6 PLM platform through education, training, demonstrations and customer presentations. The V6 platform, unveiled in January and scheduled for general availability in May, delivers a single platform for all PLM business processes, available to anybody anywhere, spanning engineering groups, business and end users. V6 also gives intelligent access to all IP no matter the data source location, with ENOVIA MatrixOne technology built into the foundation.

“The EACC is an important element in creating an open, ongoing dialogue with our customers where we get the chance to really explore the common challenges and opportunities. It creates a great environment to share the latest technological developments and discuss the evolution of PLM,” said Mike Segal, senior vice president of global sales operations, ENOVIA, Dassault Systèmes.

EACC highlights include:

- In-depth presentations and breakout sessions on PLM 2.0 and the V6 PLM platform.
- Customer keynotes from companies such as Under Armour, Parker Hannifin, Motorola, Gulfstream and GUESS;
- Industry keynotes by Bruce Richardson and Robert Tucker, author of “Driving Growth Through Innovation” and President, Innovation Resource
- An Alliance Partner Pavilion showcasing new solutions from Microsoft, IBM, TGS, Processia, Integware, Coastal Logic and many more;
- Industry-specific breakout tracks featuring customers such as GE in the industrial manufacturing track; Abbott in the life sciences track; and Texas Instruments in the high-tech track; in addition to sessions on PLM strategies and solutions for companies from the mid-market to complex global enterprises
- The ENOVIA Product Strategy Forum (PSF), a half day workshop held between ENOVIA customers and the ENOVIA research and development (R&D) team for a deeper dive into ENOVIA product vision and plans.

ENOVIA will be hosting similar customer conferences in Munich in June, and Tokyo in September. For more information or to register, go to <http://www.3ds.com/enovia/eacc>

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## ***Delcam’s Complete CAD/CAM System for Footwear in China***

21 April 2008

Delcam will demonstrate a CAD/CAM system for the design and manufacture of footwear at the Shoe and Leather exhibition to be held in Guangzhou, China, from 28th to 31st May. This will be the first footwear exhibition for Delcam in China since its acquisition of the Crispin software business.

Following the exhibition, Delcam will be hosting two seminars in Dong Guan on 3rd and 4th June, where it will present its latest advances in software for footwear design and manufacture. Invitations to these events will be available from the exhibition stand.

The acquisition of the Crispin range of software for upper design and manufacture made Delcam the only software developer able to supply a system for the complete footwear development process. With the Crispin software, designs of upper components can be created simply by sketching onto the surface of the last. The components can be defined in any colour and in a variety of textures representing

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different materials. Buckles, laces and other accessories can be added to complete the design.

Once the virtual 3D design has been approved, the upper components are flattened and engineered in 2D to produce sample or graded manufacturing patterns. Other programs in the Crispin suite can then be used to provide costings for upper materials and components, pallet and stitch path layouts, and for cutting 2D patterns or uppers from the chosen materials using knife, laser or water-jet cutting tools.

The strengths of the Crispin software provide the perfect partner to Delcam's established software for sole design. The company's PowerSHAPE CAD system offers a wide range of options for the design of complex soles, such as those found in sports footwear. Morphing options within the software make modification of complex designs much easier and quicker, making it possible to create a greater selection of alternatives when presenting proposals for new designs. The software also allows logos, textures and other decorations to be incorporated into footwear designs more readily to help reinforce branding of products.

Once the design has been completed, powerful grading options allow the complete range of sizes to be developed quickly and efficiently. Then Delcam's PowerMILL CAM system can be used to generate machining data for either models or moulds. A wide range of strategies is supported to enable quick, efficient machining and so give the fastest possible move into mass production. Finally, the PowerINSPECT inspection module allows prototypes, tooling and samples to be checked against the computer model to ensure that the designer's intent has been captured faithfully in the end product.

Using Delcam's software to automate routine procedures increases consistency and reduces the possibility of mistakes throughout the development process. In particular, accurate grading of last, sole, tread pattern and heel gives perfectly matched components, thus easing assembly and finishing operations, and reducing failures in use.



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## ***FIT and Yunique Launch New Packaged PLM Solution for SMB Fashion Businesses***

20 April 2008

The Fashion Institute of Technology (FIT) and product lifecycle management (PLM) software developer Yunique Solutions Inc. are announcing the first in a series of industry events designed to introduce their jointly-developed PLM software and training solution. This innovative industry initiative, aimed at facilitating the use of PLM in small and medium fashion companies, will be rolled-out through a series of special evening seminars beginning on Thursday, April 24 at 5:30 PM at FIT. The seminar will also run on Wednesday, May 7, with additional sessions and dates under consideration.

According to Holly Henderson, assistant adjunct professor and fashion industry consultant, "Small and medium size fashion companies often don't have the resources and funding of larger companies but face many of the same operational challenges and functional requirements. This new packaged technology and training solution puts the benefits of PLM within the reach of any size company."

"The fashion industry is looking to speed time to market, improve product quality, and reduce costs", added Darioush Nikpour, vice president of business development at Yunique. "Putting PLM technology comfortably within the reach of these companies will make a significant impact in their ability to meet fast-changing consumer demand. Thanks to this packaged solution approach, any size company will now be able to more effectively manage and collaborate around product design and development information, thereby providing a level of customer service that was once possible only for large

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companies.”

For the new SMB initiative, FIT and Yunique Solutions partnered to package PLM software licenses, a pre-configured network server, and professional training services that will significantly reduce the time and cost traditionally associated with implementing PLM. Users of the packaged PLM solution will accelerate their time-to-value by gaining access to the full range of standard plmOn functionality while minimizing IT requirements, system configuration, and professional services.

The companies expect the new industry initiative to initially benefit more than 1000 apparel and fashion companies in New York State. The seminar events are open to the industry with advance registration by phoning FIT at (212) 217-7250 or emailing [enterprise@fitnyc.edu](mailto:enterprise@fitnyc.edu).

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## ***Flomerics Publishes White Paper and Sponsors Webcast on the Latest Meshing Techniques for Flow Simulation***

April 2008

Flomerics has published a comprehensive technical white paper on mesh generation techniques for fluid flow simulation. Written for mechanical engineers, the paper explains the need for a computational mesh and the pros and cons of different mesh types. It also explains the factors affecting the choice of grid system such as cell shape, geometry representation, mesh structure and grid generation. “Engineers new to the world of fluid and thermal analysis often find the basic jargon quite daunting” said Dr. John Parry, research manager at Flomerics. “Therefore, we have created a no-nonsense reference document for engineers focusing on meshing techniques. Our intention is to answer typical user questions, and so we have made the white paper freely available to anyone visiting our website.”

Interested readers are encouraged to download the white paper at

[http://www.flomerics.com/files/casestudies/1286/EFD\\_Meshing\\_Technology\\_White\\_Paper\\_Jan08.pdf](http://www.flomerics.com/files/casestudies/1286/EFD_Meshing_Technology_White_Paper_Jan08.pdf)

Alternatively, readers can attend a free webcast that further explores this topic. To register for the webcast which will be held on May 1st 2008 at 11 AM EST (16:00 UK), please follow this link  
[http://www.flomerics.com/events/events\\_details.php?id=3197](http://www.flomerics.com/events/events_details.php?id=3197)

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## ***LMS Announces Dates for its Annual Test & Simulation Conference – May 28 & 29, 2008***

18 April 2008

LMS has announced open enrollment for its annual Test & Simulation Conference on May 28 & 29 at its North American headquarters in Troy, Michigan. LMS’s annual Test & Simulation conference is a gathering focused specifically on the topics of test and simulation in the areas of: noise, vibration, durability, and kinematics. Industry experts and practicing engineers alike gather each year to learn more about these topics and how they relate to real world engineering issues.

This year’s conference will be a mix of keynote presentations, real world customer presentations, technical workshops, and future trends session. An exhibit hall will also be open to the public throughout the conference for people to get hands on experience with new products and innovations for test and simulation from LMS and its partner companies. The two day event is targeted at engineers, managers, and technical executives who are interested in learning more about how test and simulation

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can help provide tangible results to refine engineering processes and intelligently design/develop products. Admission is free of charge and enrollment is open to the public.

If you are interested in finding out more about the annual conference, would like to download a detailed agenda, or have questions please feel free to visit our webpage at <http://www.lmsintl.com/lmsconferences/america> or call 248-502-2386.

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## ***Mentor CEO to Keynote at The Integrated Electrical Solutions Forum in Orlando, Florida***

23 April 2008

Mentor Graphics Corporation announced that Walden C. Rhines, chairman and CEO, will present the keynote at The Integrated Electrical Solutions Forum (IESF) in Orlando, Florida on May 1, 2008. Registration and more information is available here: <http://www.mentor.com/events/transconf/>

- **Who:** Walden C. Rhines, chairman and CEO Mentor Graphics Corporation
- **What:** Will present, “Next Steps in Military and Aerospace Electrical/Electronic Design Automation” at The Integrated Electrical Solutions Forum
- **Where:** Disney Yacht Club, 1700 EPCOT Resorts Boulevard, Lake Buena Vista, Florida, 32830-1000
- **When:** Presentation takes place 9:05 AM Eastern Time on Thursday, May 1.

### **About IESF**

The Integrated Electrical Solutions Forum (IESF), now in its 7th year, has become one of the leading events for Electrical and Electronic Systems Design, Modeling, Simulation and Analysis within the Automotive and Military/Aerospace Industries. The IESF series runs throughout the year with focused, industry-specific events worldwide. A list of current dates and locations of upcoming scheduled IESFs appear at the bottom of this page: <http://www.mentor.com/events/transconf/> The one day free event in Orlando is specially focused Military and Aerospace, and also includes a full track focused on Safety Critical Systems and DO-254.

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## ***RAND Worldwide to Deliver Ten Sessions at COE Conferences***

23 April 2008

RAND Worldwide announced that Joseph Konency, Christian Isaacs, Jay Imerman, James Carr and Jason Curtis from its Professional Services group are scheduled to deliver a total of ten sessions at the 2008 COE Annual PLM Conference and Technifair and the preceding 2008 COE Develop and Deploy Workshop:

### **2008 COE Annual PLM Conference and Technifair:**

April 28, 2008	1:30 PM – 3:30 PM	Design Automation for the Non-Programmer  Presented by <b>Joseph Konecny</b> and Jeffrey Roark, Johnson Controls
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April 29, 2008	10:10 AM – Noon	Developing and Using a Knowledge-Based Template Presented by Joseph <b>Konecny</b>
	3:30 PM – 4:20 PM	Thinking Outside of the Box with Functional Molded Part Presented by <b>Jason Curtis</b>
April 30, 2008	10:15 AM – 11:05 AM	When & Where to use KnowledgeWare, Generative Scripts & VB Tools Presented by <b>Joseph Konecny</b> and Brian Prasad, Parker, Hannifin/Parker Aerospace
April 30, 2008	1:40 PM – 2:30 PM	Thinking Outside of the Box with Functional Molded Part Presented by <b>Jason Curtis</b>

## 2008 COE Develop and Deploy Workshop:

May 1, 2008	2:30 PM – 3:15 PM	Customizing ENOVIA SmarTeam 101 Presented by <b>James Carr</b>
	4:45 PM – 5:30	PM Tips & Tricks – What to do when a VB for CATIA V5 Application has you up Against a Wall Presented by <b>Joseph Konecny</b>
May 2, 2008	10:15 AM – 11:00 AM	Protecting your ENOVIA SmarTeam System from Failure Presented by <b>Jay Imerman</b>
	10:15 AM - Noon	Integrating PowerCopies, PKT's, and UDF's with Visual Basic Applications in CATIA V5 Presented by <b>Joseph Konecny</b>
	11:15 AM – Noon	Keeping a Healthy ENOVIA SmarTeam Multisite Implementation Presented by Jay Imerman

Session abstracts for each of the above topics and the COE events can be found by visiting <http://www.coe.org>.

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“We are pleased to be participating in both events with an extensive program,” comments Joe Oswald, Executive Vice President, PLM Operations, North America and Europe, RAND Worldwide. “Attendees of these presentations and other COE sessions will acquire the practical real-world knowledge needed to ensure a successful V5 PLM implementation.”

RAND is exhibiting at the 2008 COE Annual PLM Conference and Technifair at booth #321 and is featuring product demonstrations including a preview of its ProductivityNOW Version 2.0 Beta service release. The company will also be giving away a 2-day Disney Theme Park Pass in COE’s Passport to the World. RAND is also exhibiting at the 2008 COE Develop and Deploy Workshop at booth #1 directly after the annual conference.

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## ***SAP Customers and Partners to Gather at SAPPHIRE® 2008 Event Series to Explore “Business Beyond Boundaries”***

21 April 2008

SAP AG announced plans for its upcoming SAPPHIRE® 2008 international customer conferences, to be held in Orlando, Florida, May 4-7 and in Berlin, Germany, May 19-21. This year, the conversations at SAPPHIRE will focus on “Business Beyond Boundaries,” exploring how today’s open technologies and integrated business networks can help companies achieve and maintain profitability, efficiency and growth. Attendees will learn how to become best-run businesses with all aspects of their business networks working together as one.

The SAPPHIRE Orlando event will feature more than 700 presentations and training sessions, along with nearly 200 interactive demo stations hosted by SAP customers and nearly 300 exhibiting partners on the conference floors. SAP customers delivering presentations at SAPPHIRE will include Caterpillar Logistics Services, Inc. and W.W. Grainger, Inc.

Keynote presentations will feature Hasso Plattner, co-founder and chairman of the Supervisory Board, SAP; Henning Kagermann, co-CEO and chairman of the Executive Board, SAP; Léo Apotheker, co-CEO and president, Global Customer Solutions and Operations, SAP; and John Schwarz, CEO, Business Objects, an SAP company, and member of the Executive Board, SAP. During their keynotes, SAP executives will discuss how organizations can most effectively operate within and across industry boundaries, and close the loop between strategy and execution, all while delivering on requirements for strategic agility without compromising efficiencies.

At the SAPPHIRE Orlando event, legendary blues/rock guitarist and singer/songwriter Eric Clapton will host a private concert for all event attendees. Zucchero, one of the most well-known Italian artists worldwide, will perform at a private celebration night for all SAPPHIRE Berlin attendees.

### **SAP Customers Leverage IT Solutions to Overcome Business Boundaries**

Today’s challenging networked economy requires companies to gain strategic agility while driving efficiencies across businesses and entire business networks. For information technology to be strategic in this environment, it must help close the loop between strategy and execution. Only then can companies successfully steer through these challenging times. With the addition of Business Objects, SAP is helping companies achieve closed-loop business performance optimization, connecting people, information and processes. At this year’s SAPPHIRE events, the SAP ecosystem will gather to explore new ways of driving collaboration and co-innovation to overcome business boundaries and to gain

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competitive advantage.

## **Business Objects Debuts at SAPPHIRE as an SAP Company**

The SAPPHIRE 2008 events mark Business Objects' inaugural appearances as an SAP company. Successfully integrated with SAP as an independent business unit, Business Objects brings to SAPPHIRE its mission of helping organizations overcome one of the most prevalent pain points experienced by virtually all businesses today – closing the gap between the worlds of making decisions and executing them. Business Objects will offer SAPPHIRE attendees further insight into industry-leading solutions that can help organizations optimize their performance through better decision making. This year's SAPPHIRE events will also welcome Business Objects customers and feature a dedicated Business Objects track of educational sessions.

"Business Objects looks forward to participating in the SAPPHIRE 2008 season and showcasing the synergy and co-innovation we continue to develop with SAP," said John Schwarz, CEO, Business Objects, an SAP company. "Testimonials from our mutual customers will demonstrate to SAPPHIRE audiences how organizations can use SAP and Business Objects solutions to link strategy and execution by connecting people, information and business."

The SAPPHIRE Berlin event will be co-located with the Business Objects User Conference, which will include more than 60 breakout sessions, test drives, quick-start programs and a show floor village.

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

ASUG, the America's SAP Users' Group, will be holding its ASUG Annual Conference from May 4-7, 2008, also at the Orange County Conference Center in Orlando, to coincide with SAPPHIRE. The co-location of these two premier ecosystem events gives business 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 businesses. The events are expected to bring together more than 15,000 current and prospective SAP customers, partners, users and employees to the Orlando area for the one-of-a-kind gathering.

"Each year, the SAPPHIRE events bring together in one location the many diverse members of the SAP ecosystem with one common goal: to optimize SAP solutions to address today's most pressing business challenges," said Marty Homlish, chief marketing officer and corporate officer, SAP. "This year, with a focus on 'Business Beyond Boundaries,' SAP aims to provide a forum for the leading minds in business and technology to work together to tackle the challenges of accelerated innovation, workforce empowerment and collaboration across all areas of business." Further SAPPHIRE 2008 program information can be found at <http://www.sap.com/about/events/sapphire>. To register for SAPPHIRE 2008 Orlando, please visit <http://www.sapsapphire.com/usa2008>. For SAPPHIRE 2008 Berlin, please visit <http://www.sapsapphire.com/emea2008>. Additional ASUG conference information is available at <http://www.asugannualconference.com>. To register, please visit <http://www.sapandasug.com/ASUG/AnnualConference2008>.

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## ***STAR European Conference 2008 Wrap Story***

23 April 2008

After two days, forty presentations, four live demos, the curtain fell on the 2008 STAR European

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Conference. Held a short distance from CD-adapco's London Headquarters in Hammersmith, the conference was the most successful ever: attracting over 320 attendees, drawn from all sections of industry and from every discipline in the CAE world.

The central theme of the conference was "the Power of Integration". Led by keynote presentations from Ford of Europe and Prospect Flow Solutions, a succession of CD-adapco clients presented the tangible benefits that can be gained from adopting an integration philosophy in industrial CAE, in the process demonstrating cutting edge application of CFD Technology.

CD-adapco Marketing Communications Manager Stephen Ferguson was quick to declare the 2007 Conference the most successful ever: "Not only did we attract the largest ever number of attendees to a CD-adapco conference, but they came from the widest range of industrial backgrounds. This was reflected in some of the best conference presentations that we have ever seen, covering everything from falling lifeboats, Formula 1 Racing cars to the latest CAE driven developments in gas turbine technology."

CD-adapco presented live demonstrations of new capabilities in both STAR-CCM+ and STAR-CD, including: Surface Wrapping; Fluid Structure Interaction; Advanced Meshing Hints and Tips and Free Surface Tank Sloshing.

Conference delegates were also able to network with a wide range of exhibitors, including gold sponsor Microsoft, Silver sponsors SGI, Sun and IBM, as well as Bull, Engineous, DARS, Genias Graphics, HP, ICON, LMS, modeFRONTIER, MpCCI (Fraunhofer-Institut), Panasas, QLogic, Sharc, Streamline Computing and SIMULIA.

There will be further opportunities to experience "The Power of Integration" at STAR Conferences around the world. The next CD-adapco Conference will be the STAR American Conference, held on June 23 - 25 in Dearborn Michigan. [Click here to register.](#)

Conferences will also be held in Korea, China, Japan, India and France.

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## ***Theorem Solutions Showcases New Interoperability Products for CATIA users at COE 2008***

22 April 2008

A series of innovative interoperability products, based on its close working relationships with Dassault Systemes and CATIA users worldwide, will be highlighted by product data exchange specialist Theorem Solutions at the CATIA Operators Exchange Annual PLM Conference & TechniFair (COE 2008) – which takes place at Lake Buena Vista , Florida between 27th-30th April.

Theorem's new **Multi-CAD** product provides CATIA users with direct access to non CATIA data – including **Pro/Engineer**, **NX** and **IDEAS** – without leaving the CATIA environment. Easy to use and highly productive, Multi-CAD delivers access to high quality data entirely within the CATIA session, saving time and minimising operator effort.

Also on show at COE will be the latest update of **Theorem's Process Manager (TPM)**. The new version incorporates a wealth of enhancements to enable PLM integration – adding further business benefits to a solution that already provides users with a proven return on investment.

Theorem's booth at **COE 2008** will reflect the changing face of interoperability. Not only will the company highlight the growing importance of highly effective CAD translation, but also emphasise the

# CIMdata PLM Industry Summary

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need to make translation and associated processes as business efficient as possible. Theorem will be demonstrating the use of non-CATIA data within a CATIA session, using standard CATIA commands such as 'insert existing component'. In addition, it will be showcasing an entirely new and highly productive interface for its [CADverter range of translation products](#).

Theorem's booth (No: 214) at COE 2008 will also enable CATIA users to learn at first hand how to gain maximum benefit from the company's comprehensive range of products for interactive and process based interoperability.

**For more information please click here**

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## Financial News

### ***Apache Design Solutions Continues Growth with Record Q1 Sales***

21 April 2008

[Apache Design Solutions](#) announced that the company has achieved its 21st consecutive quarter of record bookings and revenue, while maintaining profitability. Sales growth in Q1 consisted of RedHawk license expansion and adoption of the new Sentinel chip-package co-design platform by existing customers. Additionally, seven new semiconductor companies selected Apache's solutions.

"Apache has maintained continuous growth every quarter for the past five years," stated Craig Shirley, vice president of worldwide sales at Apache. "This achievement validates our products, customer support, and business model."

"Apache's product portfolio has expanded from on-chip power integrity to multiple platforms addressing power, noise, and reliability challenges for IC, analog, and chip-package-system co-design," stated Andrew Yang, CEO of Apache. "Apache will continue to execute based on customer-driven technology roadmap with solid product delivery for risk mitigation and system cost optimization."

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### ***Cadence Reports Q1 Revenue of \$287 Million***

23 April 2008

Cadence Design Systems, Inc. reported first quarter 2008 revenue of \$287 million, compared to revenue of \$365 million reported for the same period in 2007. On a GAAP basis, Cadence recognized a net loss of \$19 million, or \$(0.07) per share on a diluted basis, in the first quarter of 2008, compared to net income of \$44 million, or \$0.15 per share on a diluted basis, in the same period in 2007.

In addition to using GAAP results in evaluating Cadence's business, management believes it is useful to measure results using a non-GAAP measure of net income, which excludes, as applicable, amortization of intangible assets, stock-based compensation expense, in-process research and development charges, certain termination and legal costs, integration and acquisition-related costs, gains or losses and expenses or credits related to non-qualified deferred compensation plan assets, executive severance payments, restructuring charges and credits, losses on extinguishment of debt and equity in losses (income) from investments. Non-GAAP net income is adjusted by the amount of additional taxes or tax benefit that the company would accrue if it used non-GAAP results instead of GAAP results to calculate

# CIMdata PLM Industry Summary

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the company's tax liability. See "GAAP to non-GAAP Reconciliation" below for further information on the non-GAAP measure.

Using this non-GAAP measure, net income in the first quarter of 2008 was \$12 million, or \$0.04 per share on a diluted basis, as compared to \$75 million, or \$0.26 per share on a diluted basis, in the same period in 2007.

"First quarter results met our expectations and we'll continue to focus on improving our operating performance throughout the year," said Bill Porter, executive vice president and chief administrative officer.

The following statements are based on current expectations. These statements are forward looking, and actual results may differ materially. These statements do not include the impact of any mergers, acquisitions or other business combinations completed after Mar. 29, 2008.

## **Business Outlook**

For the second quarter of 2008, the company expects total revenue in the range of \$310 million to \$320 million. Second quarter GAAP net income per diluted share is expected to be in the range of \$0.02 to \$0.04. Diluted earnings per share using the non-GAAP measure defined below are expected to be in the range of \$0.13 to \$0.15.

For the full year 2008, the company expects total revenue in the range of \$1.490 billion to \$1.540 billion. On a GAAP basis, net income per diluted share for fiscal 2008 is expected to be in the range of \$0.64 to \$0.72. Using the non-GAAP measure defined below, diluted earnings per share for fiscal 2008 are expected to be in the range of \$1.14 to \$1.22.

A schedule showing a reconciliation of the business outlook from GAAP net income and diluted net income per share to the non-GAAP net income and diluted net income per share is included with this release.

## [Q1 2008 Financial Schedules](#)

## **Audio Webcast Scheduled**

Mike Fister, Cadence's president and CEO, and Bill Porter, executive vice president and chief administrative officer, will host a first quarter 2008 financial results audio webcast today, Apr. 23, 2008, at 2 p.m. (Pacific) / 5 p.m. (Eastern). An archive of the webcast will be available starting Apr. 23, 2008, at 5 p.m. Pacific time and ending at 5 p.m. Pacific time on Apr. 30, 2008. Webcast access is available at [www.cadence.com/company/investor\\_relations](http://www.cadence.com/company/investor_relations).

## **GAAP to non-GAAP Reconciliation**

Cadence management evaluates and makes operating decisions using various operating measures. These measures are generally based on the revenues of its product, maintenance and services business operations and certain costs of those operations, such as cost of revenues, research and development, sales and marketing and general and administrative expenses. One such measure is non-GAAP net income, which is a non-GAAP financial measure under Section 101 of Regulation G under the Securities Exchange Act of 1934, as amended. This measure consists of GAAP net income (loss) excluding, as applicable, amortization of intangible assets, stock-based compensation expense, in-process research and development charges, certain termination and legal costs, integration and acquisition-related costs, gains or losses and expenses or credits related to non-qualified deferred compensation plan assets, executive severance payments, restructuring charges and credits (primarily related to excess facilities), losses on extinguishment of debt and equity in losses (income) from

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investments. Intangible assets consist primarily of purchased or licensed technology, backlog, patents, trademarks, distribution rights, customer contracts and related relationships and non-compete agreements. Non-GAAP net income is adjusted by the amount of additional taxes or tax benefit that the company would accrue if it used non-GAAP results instead of GAAP results to calculate the company's tax liability.

Management believes it is useful in measuring Cadence's operations to exclude amortization of intangibles, in-process research and development and integration and acquisition-related costs because these costs are primarily fixed at the time of an acquisition and generally cannot be changed by management in the short term. In addition, management believes it is useful to exclude stock-based compensation expense because it enhances investors' ability to review Cadence's business from the same perspective as Cadence's management, which believes that stock-based compensation expense is not directly attributable to the underlying performance of the company's business operations. Management also believes that it is useful to exclude restructuring charges and credits. Cadence has dramatically reduced the size of its design services business and portions of its product and maintenance businesses over the past several years. As a result, in 2001, 2002 and 2003, Cadence's GAAP statements of operations included significant charges relating to such restructurings. Management believes that in measuring the company's operations it is useful to exclude any such restructuring charges and credits because its level of restructuring activities has significantly decreased. Management also believes it is useful to exclude executive severance costs and certain termination and legal costs as these costs do not occur frequently. Management also believes it is useful to exclude gains or losses and expenses or credits related to its non-qualified deferred compensation plan assets as these gains and expenses are not part of Cadence's direct costs of operations, but reflect changes in the value of assets held in the plan. Finally, management also believes it is useful to exclude the equity in losses (income) from investments, as these items are not part of Cadence's direct cost of operations. Rather, these are non-operating items that are included in other income (expense) and are part of the company's investment activities.

Management believes that non-GAAP net income provides useful supplemental information to management and investors regarding the performance of the company's business operations and facilitates comparisons to our historical operating results. Management also uses this information internally for forecasting and budgeting. Non-GAAP financial measures should not be considered as a substitute for measures of financial performance prepared in accordance with GAAP. Investors and potential investors are encouraged to review the reconciliation of non-GAAP financial measures contained within this press release with their most directly comparable GAAP financial results.

The following tables reconcile the specific items excluded from GAAP net income (loss) in the calculation of non-GAAP net income for the periods shown below:

Net Income (Loss) Reconciliation	Quarters Ended	
	March 29, 2008	March 31, 2007
(in thousands)	(unaudited)	
Net income (loss) on a GAAP basis	\$ (18,747)	\$ 44,421
Amortization of acquired intangibles	11,491	11,290
Stock-based compensation expense	21,590	27,682
Non-qualified deferred compensation expenses (credits)	(102)	3,157
Restructuring and other charges (credits)	-	(945)

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Write-off of acquired in-process technology	600	-
Integration and acquisition-related costs	274	353
Equity in losses from investments, gains and losses on non-qualified deferred compensation plan assets—recorded in Other income, net	6,394	(2,702)
Income tax effect of non-GAAP adjustments	(9,651)	(7,952)
<b>Net income on a non-GAAP basis</b>	<b>\$ 11,849</b>	<b>\$ 75,304</b>

Diluted Net Income (Loss) per Share Reconciliation	Quarters Ended	
	March 29, 2008	March 31, 2007
(in thousands, except per share data)	(unaudited)	
Diluted net income (loss) per share on a GAAP basis	<b>\$ (0.07)</b>	<b>\$ 0.15</b>
Amortization of acquired intangibles	0.04	0.04
Stock-based compensation expense	0.08	0.09
Non-qualified deferred compensation expense	-	0.01
Restructuring and other charges (credits)	-	-
Write-off of acquired in-process technology	-	-
Integration and acquisition-related costs	-	-
Equity in losses from investments, gains and losses on non-qualified deferred compensation plan assets—recorded in Other income, net	0.02	(0.01)
Income tax effect of non-GAAP adjustments	(0.03)	(0.02)
Diluted net income per share on a non-GAAP basis	<b>\$ 0.04</b>	<b>\$ 0.26</b>
Shares used in calculation of diluted net income (loss) per share —GAAP (A)	262,825	293,603
Shares used in calculation of diluted net income per share —non-GAAP (A)	279,400	293,603
<b>(A)</b> Shares used in the calculation of GAAP net income (loss) per share are expected to be the same as shares used in the calculation of non-GAAP net income per share, except when the company reports a GAAP net loss and non-GAAP net income, or GAAP net income and a non-GAAP net loss.		

Investors are encouraged to look at GAAP results as the best measure of financial performance. For example, amortization of intangibles or in-process technology are important to consider because they may represent initial expenditures that under GAAP are reported across future fiscal periods. Likewise, stock-based compensation expense is an obligation of the company that should be considered. Restructuring charges can be triggered by acquisitions or product adjustments as well as overall company performance within a given business environment. Losses on extinguishment of debt can be incurred on remaining convertible notes. All of these metrics are important to financial performance

# CIMdata PLM Industry Summary

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generally.

Though Cadence management finds its non-GAAP measure is useful in evaluating the performance of Cadence's business, its reliance on this measure is limited because items excluded from such measures often have a material effect on Cadence's earnings and earnings per share calculated in accordance with GAAP. Therefore, Cadence management typically uses its non-GAAP earnings and earnings per share measures, in conjunction with GAAP earnings and earnings per share measures, to address these limitations.

Cadence believes that presenting its non-GAAP measure of earnings and earnings per share provides investors with an additional tool for evaluating the performance of the company's business, which management uses in its own evaluation of performance, and an additional baseline for assessing the future earnings potential of the company. While the GAAP results are more complete, the company prefers to allow investors to have this supplemental measure since, with reconciliation to GAAP, it may provide additional insight into its financial results.

Cadence expects that its corporate representatives will meet privately during the quarter with investors, the media, investment analysts and others. At these meetings, Cadence may reiterate the Business Outlook published in this press release. At the same time, Cadence will keep this press release, including the outlook, publicly available on its Web site.

Prior to the start of the Quiet Period (described below), the public may continue to rely on the Business Outlook contained herein as still being Cadence's current expectations on matters covered unless Cadence publishes a notice stating otherwise.

Beginning June 13, 2008, Cadence will observe a "Quiet Period" during which the Business Outlook as provided in this press release and the company's most recent Annual Report on Form 10-K and Quarterly Report on Form 10-Q no longer constitute the company's current expectations. During the Quiet Period, the Business Outlook in these documents should be considered to be historical, speaking as of prior to the Quiet Period only and not subject to update by the company. During the Quiet Period, Cadence representatives will not comment on Cadence's business outlook or its financial results or expectations. The Quiet Period will extend until the day when Cadence's Second Quarter 2008 Earnings Release is published, which is currently scheduled for July 23, 2008.

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## ***Catalog Data Solutions Announces 100% Growth Rate for Q1 2008***

22 April 2008

Catalog Data Solutions (CDS) announced that its Q1 revenue increased by 100% over Q1 2007.

CDS finished 2007, its second full year, with 44 customers and in Q1 2008 added 9 new customers: aMsp (All Metric Small Parts), AST Bearings, Aviation Metals, B & B Manufacturing, General Bearing, Plastic Products, Standard Lifters, Hamilton Company, Thermaco - Big Dipper. In addition the company continued to expand the content available on its new free CAD model search engine [www.3DModelSpace.com](http://www.3DModelSpace.com).

As Daniel M. Smith of the Goodrich Corporation said, "I am a designer, and I dictate where the parts are purchased from. If you have the CAD model I want, you get the sale. It is just that simple."

"Whether they are looking for new parts, spare parts or CAD models our products save design engineers

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valuable time and make it easier for industrial suppliers' products to be selected online," said John Major, CEO, Catalog Data Solutions. "More than 90% of design engineers search for parts online – and our Q1 results confirm the acceleration of manufacturers responding by providing their part details and CAD models online."

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## **EMC Posts Record First-Quarter Revenue**

23 April 2008

EMC Corporation announced all-time record first-quarter revenue and its 19th consecutive quarter of double-digit year-over-year revenue growth. EMC's total consolidated revenue for the first quarter of 2008 was \$3.47 billion, an increase of 17% over the \$2.98 billion reported for the first quarter of 2007.

First-quarter GAAP net income was \$268.8 million, or \$0.13 per diluted share, which included a \$79.2 million non-cash charge for in-process research and development (IPR&D) resulting from acquisitions completed during the quarter. Excluding this charge, net income was \$348.0 million or \$0.16 per diluted share. Non-GAAP first-quarter net income, which excludes the IPR&D charge and other items(1), was \$477.3 million or \$0.23 per diluted share, 28% higher than the non-GAAP earnings per diluted share of \$0.18 for the year-ago period.

During the quarter, EMC generated operating cash flow of \$918.3 million, an increase of 14% compared with the same period a year ago, and free cash flow of \$717.5 million, an increase of 22% year-over-year.

Joe Tucci, EMC Chairman, President and Chief Executive Officer, said, "EMC is off to a solid start to the year, and we remain on track to achieve the 2008 financial targets we set for the business at the beginning of the year. We entered the year with the strongest and most diversified product, solutions and services portfolio in our history. From the consumer to the small- and medium-sized business and up through the enterprise, we are delivering to the market high-quality, innovative IT solutions faster than ever before. These offerings remain squarely aligned with top CIO spending priorities and are optimized to help businesses manage their information and drive IT efficiency throughout their organizations."

"Looking ahead, EMC's growth opportunities are many as we continue to aggressively strengthen our core business, grow into new and adjacent markets and expand our presence around the globe," Tucci added. "The power of our technology portfolio positions us well to extend our leadership and continue gaining share."

Compared with the first quarter of 2007, EMC systems revenue increased 10% and represented 41% of total first-quarter revenue. Software license and maintenance revenue increased 18% and accounted for 41% of total revenue. Other services revenue grew 30% and represented 18% of total revenue.

From a geographic perspective, revenue from North America increased 14% compared with the same period a year ago and represented 57% of total first-quarter revenue. Revenue from operations outside of North America grew 21% year-over-year, driven by double-digit revenue growth in each of EMC's Europe, Middle East and Africa (EMEA), Asia-Pacific and Japan (APJ) and Latin America regions.

David Goulden, EMC Executive Vice President and Chief Financial Officer, said, "EMC demonstrated strong revenue growth and operating performance. Our focus on investing in and delivering the right solutions to the right markets continues as the driving force behind our successful and diversified business model. This focus will serve EMC, our customers and shareholders well as we not only sustain

# CIMdata PLM Industry Summary

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but extend our market and technology leadership."

In the first quarter, EMC continued to return value to shareholders by leveraging its strong cash position, spending approximately \$557.2 million to repurchase approximately 36 million shares of EMC. This completed the company's \$2 billion share repurchase plan it embarked upon in January 2007. In addition, EMC recently increased its share repurchase authorization by 250 million shares.

## First-Quarter Highlights

Revenue from EMC's Information Storage business, which includes revenue from storage systems, storage software and related customer and professional services, reached \$2.71 billion, an increase of 12% compared with the year-ago period. Growth in the Information Storage business was driven by strong demand for EMC's storage products and professional services portfolio across all major geographies. EMC Symmetrix revenue increased 8%, EMC CLARiON revenue increased 19% and EMC Celerra network-attached storage revenue increased more than 50%, each compared with the year-ago quarter. During the quarter, EMC continued to expand its storage portfolio with new products and capabilities that provide customers with ease-of-use, proven reliability and information storage innovation. For example, EMC became the first enterprise storage vendor to integrate flash-based solid state drives (SSDs) into its core product portfolio, enabling Symmetrix DMX-4 customers to achieve unprecedented performance and energy efficiency.

EMC's Content Management and Archiving business increased first-quarter revenue 8% year-over-year to \$185.2 million. Organizations around the world continued to choose EMC's enterprise content management and archiving solutions to effectively manage their growing volumes of unstructured data, while improving business efficiencies, increasing productivity, and meeting compliance and risk mitigation requirements. Also during the first quarter, EMC's Content Management and Archiving business captured several honors, including an ACE award from ECM Connection at the AIIM International Conference.

For the first quarter of 2008, revenue from RSA, The Security Division of EMC, grew 13% year-over-year, reaching \$134.9 million. This growth was driven primarily by global demand for the division's risk-based authentication solutions, anti-fraud services, and security information and event management solutions. Companies across industries and around the world continued to choose the powerful portfolio of RSA security products and services to address their critical requirements around data security, security information management and data loss prevention, and to drive business acceleration and innovation across their organizations.

VMware, which is majority-owned by EMC, had first-quarter revenues of \$438.2 million, an increase of approximately 71% compared to the year-ago quarter. VMware is the global leader in virtualization solutions from the desktop to the datacenter. Customers of all sizes rely on VMware to reduce capital and operating expenses, ensure business continuity, strengthen security and be more energy efficient. With 2007 revenues of \$1.32 billion, more than 100,000 customers, and nearly 14,000 partners, VMware is one of the fastest growing public software companies. Visit <http://ir.vmware.com/> for more information about the virtualization software leader's first-quarter financial results.

(1) Other items excluded are stock-based compensation, intangible amortization and a tax benefit recognized in the first quarter of 2007.

Access <http://www.emc.com/about/news/press/2008/20080423-earnings.htm> for financials and webcast.

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# CIMdata PLM Industry Summary

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**ESI Group Announces its Consolidated Full-Year Results to 31 January 2008**

23 April 2008

## Consolidated figures - IFRS

€ millions	FYR 2007-08		FYR 2006/07	% change
	year to	year to		
	31 January 2008	31 January 2007		
<b>Total revenues</b>	<b>68.9</b>	<b>66.0</b>	<b>+4%</b>	
of which Licences and maintenance	53.9	53.2	+1%	
of which Services	15.0	12.8	+16%	
<b>Gross profit</b>	<b>49.9</b>	<b>48.2</b>		<b>+4%</b>
Gross margin (%)	72.5%	73.0%		
<b>Operating profit</b>	<b>5.7</b>	<b>5.6</b>		<b>+1%</b>
Operating margin (%)	8.2%	8.5%		
<b>Financial profit (loss)</b>	<b>(2.4)</b>	<b>(1.6)</b>		-
<b>Attributable net profit</b>	<b>2.3</b>	<b>2.4</b>		
Net margin (%)	3.4%	3.7%		(5%)

Year to 31 January

Acceleration in growth by volume

As announced on 11 March 2008, full-year revenues for the 2007-08 financial year totalled €68.9 million, up +4.3% year-on-year or +8.5% at constant exchange rates. This organic revenue growth comprises moderate growth in the Licences business of +1.4% in real terms and +5.8% in volume, and very sound growth for the Services business of +16.3% in real terms and +20.0% in volume.

81% of revenues were generated outside France.

- Improvement in operating margin at constant exchange rates

Operating profit came to €5.7 million or €6.6 million in volume, stable in real terms compared to 2006-07 but up +18% at constant exchange rates. Operating margin was therefore 9.3% at constant exchange rates and 8.2% in real terms. This more or less stable margin was a result of:

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- a significant impact of the unfavourable development of exchange rates which cut down the Group's revenues by €2.8 million;
- a product mix effect on gross margin despite significant improvement in gross margin on Services activities;
- continuing control of Research and Development costs, which represented 29% of Licences revenues compared with 30% in 2006-07, as well as general operating expenses (down 1.7%);
- growth of 8.2% in sales and marketing expenses, in particular as a result of increased commercial investment in order to build up local teams.
- Significant improvement in cash and operating cash flow

After interest expenses of €0.76 million, currency losses relating to the unfavourable development of exchange rates (in particular the US dollar and the Korean won) of €1.67 million and a tax charge of €0.88 million, attributable net profit was €2.3 million.

In parallel, [ESI Group](#) generated €3.4 million of cash, mainly as a result of improved management of its working capital requirement. Operating cash flow therefore increased significantly to €6.2 million. Available cash at 31 January 2008 stood at €13.1 million.

The Group's financial position remained solid, with an indebtedness ratio (long-term financial debt over shareholders equity) of 8.4%.

## Key points

- § Moderate growth in the Licences business reflects the ongoing transition from first-generation solutions to second-generation solutions, as well as the economic slowdown at the end of the year. However, growth remained robust in both emerging products and new business, notably with mature products enjoying further success among new clients;
- § The increase of the Services business, indicates growing demand among industrialists for integrated solutions offering strong added value, as well as interest from new operators for realistic simulation;
- § The unfavourable development of exchange rates accentuated under contrasting economic conditions in the United States in particular in the second half of the year;
- § The adoption of new solutions amplified among major clients: ESI Group continued to strengthen its position among major OEM clients such as VW, Renault-Nissan, Hyundai and Thalès-DCNS by rolling out new solutions. This illustrates the relevance of ESI Group's strategic position, which consists of supporting the changeover to Simulation Based Design (SBD) by offering a range of applications covering all aspects of realistic simulation and available in an open environment (VisualDSS) compatible with clients' best practices;
- § Continuous control of Research and Development costs and G&A expenses and the impact of currency effects allowed for costs to remain stable over the period;
- § The 8.5% increase in the total number of employees includes the perimeter effect related to the consolidation of staff in China over the full year in 2007-08. However, by focusing new hires in low-cost countries such as China, India and the Czech Republic, average staff costs were reduced by 6% over the period;
- § The commercial structure strengthened, with the appointment of new general managers in Spain,

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Germany, Japan and China and the building up of local support teams; the positive effects of these investments in terms of revenues should begin to be seen in 2008-09;

§ Group's cash position significantly improved thanks to cash flow generated over the period, up €8 million (€6.2 million vs €-1.8 million in 2006-07).

Alain de Rouvray, Chairman and Chief Executive Officer of ESI Group, concludes: "2007-08 was characterised by the continuing transition phase in the Licences business, while the Services business saw a strong growth. In addition, operational margin remained stable relative to last year but grew up by 18% in volume. The Group's fundamentals remain solid. We have strengthened our financial position thanks to cash generation of €3.4 million and our strategy keeps being confirmed by the continuing roll-out of our solutions at major clients. Despite the prevailing uncertain economic conditions, we are confident about improving our performance over the current fiscal year. Indeed, we expect to see the positive effects of commercial investments carried out in 2007-08, as well as continuing strong growth in the Services business. Net margin should also benefit from a more effective currency hedging. Therefore, operating margin is expected to reach 10% of 2008-09 total revenues.

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**Geometric Q4 USD Revenues up 1.8% QoQ, Operating Profit up 28.6% QoQ; Annual Revenues up 42.7% on USD Basis**

18 April 2008

Geometric Ltd. Announced its Q4 results for FY 2007-08.

## Financial Highlights

The Revenue from operations for the quarter rose to Rs 1264.7 million as against Rs 1239.6 million of the previous quarter. The Operating profit was Rs. 97.2 million, as compared to Rs. 75.6 million for the previous quarter accounting a sequential increase of 28.6%. The Company booked an Other Income loss of Rs 10.7 million as compared to a gain of Rs 25.8 million in the previous quarter. Profit after tax was Rs 46.7 million as against Rs 68 million for the previous quarter. Earnings per share (EPS) for the quarter was Rs 0.75 taking the annual EPS to Rs.5.18.

Speaking about the results, Dr. Ravi Gopinath, Managing Director and CEO said, "the past year has been a challenging one. However we have started to see the results of the various initiatives that we launched during the year in the form of strengthening of our operations, measured in terms of growth in new business closures and pipeline; improvements in delivery efficiencies; improved cost efficiencies in our US operations; and the increasing acceptance and awareness of Geometric in our target customer space. As we move into FY09, I firmly believe that we now have the foundation for sustainable growth."

Commenting on the negative Other Income, Mr. G. Ravishankar, CFO said, "early adoption of AS30 lowered the Mark-to-Market losses on foreign exchange contracts. The loss of Rs 10 Million is essentially due to translation losses."

Offshore (including offsite) revenue as a percentage of total services revenue increased from 52.6% to 63.6%. The Company had 2968 employees as of March 31, 2008, including its subsidiaries.

Utilization in the quarter was 81.9%.

## Business Highlights

# CIMdata PLM Industry Summary

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- The Company added 9 new customers and closed new business worth 12.7 Million USD.
- Growing traction in the European market with 5.4 Million USD worth of new business booked.

## Products

- CAMWorks®, our SolidWorks® certified Gold CAM product, showed marked improvement in sales over the previous quarter. Revenue from Europe increased significantly while the US sales dipped marginally.
- DFMPromoTM, our design for manufacturability tool, started sales.
- Five of our NestLib®, nesting libraries, customers purchased additional modules of the library and renewed their annual support agreements with some of them opting for significantly longer terms. One of our major OEM partners renewed royalty agreements for additional three years.
- The products and technologies team exhibited at various shows including SolidWorks World 2008, Die and Mold Exhibition, and WESTEC.

For further details about Geometric, please visit <http://www.geometricglobal.com>

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## ***MSC.Software to Host First Quarter Earnings Conference Call and Webcast on May 7, 2008***

22 April 2008

MSC.Software Corporation announced that it will host its conference call to discuss first quarter financial results on Wednesday May 7, 2008 at 1:30 pm Pacific (4:30 pm Eastern). The press release announcing first quarter earnings will be issued after the market closes on May 7, 2008.

The first quarter conference call will include a slide presentation that can be downloaded at: <http://www.mscco.com/ir/>. The conference call can be accessed by web cast at: <http://www.mscco.com/ir/> or by dialing in to (800) 374-0151 for US callers; or (706) 634-4981 for international callers. To participate in the live conference call, use the following conference ID code: 43801658.

An archived version of the conference call will be available at <http://www.mscco.com/ir/>. The teleconference replay will be available for 48 hours and can be accessed by dialing in to: U.S. (800) 642-1687 or Intl. (706) 645-9291 using the conference ID code: 43801658.

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## ***PTC Announces Fiscal 2008 Second Quarter Results Issues Q3 Guidance and Re-Affirms Full Fiscal Year Targets***

23 April 2008

PTC reported results for its fiscal second quarter ended March 29, 2008.

### Highlights

- Q2 non-GAAP Results: Revenue of \$259.5 million and EPS of \$0.30
- Q2 GAAP Results: Revenue of \$257.8 million and EPS of \$0.16

# CIMdata PLM Industry Summary

- Q3 non-GAAP Guidance: Revenue of \$260 to \$270 million with EPS of \$0.28 to \$0.32
- Q3 GAAP Guidance: Revenue of \$259 to \$269 million with EPS of \$0.14 to \$0.18
- Fiscal Year 2008 non-GAAP Guidance: Revenue of \$1,060 million with 22% operating margin
- Fiscal Year 2008 GAAP Guidance: Revenue of \$1,055 million with 13% operating margin

## Q2 Results

C. Richard Harrison, president and chief executive officer, commented, “We achieved 14% year-over-year non-GAAP revenue growth in the second quarter reflecting revenue contribution from the CoCreate Software business, which we acquired on November 30, 2007, strong continued license revenue growth in Europe, services and maintenance revenue growth in all geographies, as well as a favorable currency impact. As expected, the softness in license sales in North America continued.” GAAP year-over-year revenue growth for the second fiscal quarter was 13%. Our non-GAAP revenue excludes the effect of purchase accounting on the acquired deferred maintenance revenue balance of CoCreate of approximately \$1.7 million.

The following tables provide further detail on PTC’s GAAP revenue performance by line of business, region and distribution channel. Further financial and operating metrics are available on PTC’s web site at [www.ptc.com/for/investors.htm](http://www.ptc.com/for/investors.htm).

(\$ in millions)	Q2	Q3	Q4	Q1	Q2	Y-Y
	FY07	FY07	FY07	FY08	FY08	Change
License	\$ 71.3	\$ 62.1	\$ 96.1	\$ 67.2	\$ 72.9	2%
Services	58.0	59.7	64.6	60.2	63.8	10%
Maintenance	98.8	103.1	106.0	113.8	121.1	23%
Total Revenue	\$228.1	\$224.9	\$266.7	\$241.2	\$257.8	13%
Europe	\$ 82.9	\$ 86.2	\$101.6	\$101.7	\$106.2	28%
North America	89.4	86.9	102.2	84.5	88.2	-1%
Pacific Rim	30.7	32.6	34.3	29.9	33.5	9%
Japan	25.1	19.2	28.6	25.1	29.9	19%
Total Revenue	\$228.1	\$224.9	\$266.7	\$241.2	\$257.8	13%
Direct	\$179.2	\$177.3	\$215.3	\$182.5	\$196.2	9%
Channel	48.9	47.6	51.4	58.7	61.6	26%
Total Revenue	\$228.1	\$224.9	\$266.7	\$241.2	\$257.8	13%

“We continue to see strong interest in our offerings,” continued Harrison, “particularly for our Windchill product, which is the only CAD-platform agnostic PLM product on the market today that is built on an integral architecture. In the second quarter, PTC received orders from leading organizations, including Airbus S.A.S., Hitachi High-Technologies Corporation, BAE Systems, Liebherr, Huawei Technologies Company Limited, VDO Automotive and Volkswagen. Importantly, there were 16 customers from which we recognized more than \$1 million of license and services revenue in the second quarter. This is up from 12 customers last quarter and comparable to 16 in the same period last year. We recognized \$37.6 million of license and services revenue from these customers in Q2, compared with \$32.1 million last quarter and \$35.6 million in Q2 of last year.”

Neil Moses, chief financial officer, commented, “We delivered 21.0% non-GAAP operating margin in

# CIMdata PLM Industry Summary

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the second quarter, a 630 basis point improvement from the same period last year. The increase was driven primarily by the benefits of our globalization strategy, the continued evolution of our distribution model, improvements to our services business model, and the immediate non-GAAP operating margin accretion provided by CoCreate. Our year-to-date non-GAAP operating margin of 19.6% is up 480 basis points over the first half of fiscal 2007.” GAAP operating margin for Q2 of 2008 and the first half of fiscal 2008 was 12.0% and 9.2%, respectively. The Company’s non-GAAP tax rate in the second quarter of 2008 was 34% and its GAAP tax rate was 38.6%.

Moses added, “Cash flow from operations was \$107 million for the second quarter. We used \$52 million in repayment of amounts borrowed under our revolving credit facility to finance the CoCreate acquisition, leaving a balance of \$164.4 million as of the end of the second quarter. Additionally, we used \$22 million of cash during the quarter to repurchase our common shares under our current \$40 million authorization. We have \$8 million remaining under that authorization. Cash and cash equivalents were \$259 million at the end of the second quarter of 2008.”

## **Q3 Outlook**

“Looking forward to Q3, we are currently expecting non-GAAP revenue to be between \$260 million and \$270 million,” said Harrison. “Non-GAAP earnings per diluted share are expected to be between \$0.28 and \$0.32; we are expecting a slight sequential increase in sales and marketing expense in the third quarter.”

PTC expects GAAP third quarter revenue between \$259 million and \$269 million, and GAAP earnings per diluted share between \$0.14 and \$0.18. The Q3 guidance assumes a non-GAAP tax rate of 35% and GAAP tax rate of 37.5%.

The non-GAAP revenue guidance for the third quarter excludes the effect of purchase accounting on the acquired deferred maintenance revenue balance of CoCreate of approximately \$1 million. In addition, the non-GAAP earnings guidance excludes approximately \$11 million of stock-based compensation expense, \$9 million of acquisition-related amortization expense and \$2 million of restructuring expenses related to our continued globalization program.

## **FY08 Outlook**

For the fiscal year ending September 30, 2008, PTC currently expects non-GAAP revenue to be approximately \$1,060 million with non-GAAP earnings per diluted share at the high-end of its previously announced range of \$1.17 and \$1.27. PTC expects GAAP revenue to be approximately \$1,055 million with GAAP earnings per diluted share in the range of \$0.66 and \$0.77 for the fiscal year. The full fiscal year guidance assumes a non-GAAP tax rate of 35% and GAAP tax rate of 37.5%.

Harrison concluded, “While we remain mindful of the potential impact of a slowing economy in 2008, we are confident in our ability to achieve our fiscal 2008 revenue and earnings targets. Approximately half of our expected non-GAAP revenue growth for the year of 13% is expected to come from the CoCreate business. The remaining half of the expected growth implies 6% year-over-year organic growth. This growth is consistent with our full year target, which anticipated a softening US economy. We believe this expected growth rate is very achievable given the strong growth we are achieving outside of the US, and given the strength of services and maintenance businesses.”

The non-GAAP revenue guidance for the full fiscal year excludes the effect of purchase accounting on the acquired deferred maintenance revenue balance of CoCreate of approximately \$5 million. In addition, the non-GAAP earnings guidance excludes approximately \$44 million stock-based

# CIMdata PLM Industry Summary

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compensation expense, \$32 million of acquisition-related amortization expense, \$16 million of restructuring expenses primarily related to our continued globalization program, and \$2 million of in-process research and development expense related to acquisitions completed in the first quarter of 2008.

## Earnings Conference Call and Webcast

**What:** PTC fiscal Q2 results conference call and webcast

**When:** Wednesday, April 23, 2008 at 10:00 a.m. Eastern Time.

**Dial-in:** 1-888-566-8560 or 1-517-623-4768

**Call Leader:** Richard Harrison

**Passcode:** PTC

**Webcast:** [www.ptc.com/for/investors.htm](http://www.ptc.com/for/investors.htm)

**Replay:** The audio replay of this event will be archived for public replay until 4:00 pm on April 28, 2008 at 1-888-568-0346 or 1-203-369-3464. To access the replay via webcast, please visit <http://www.ptc.com/for/investors.htm>.

## Important Information About Non-GAAP References

PTC provides non-GAAP supplemental information to its financial results. Non-GAAP revenue excludes the effect of purchase accounting on the fair value of the acquired deferred maintenance revenue balance of CoCreate Software GmbH. Non-GAAP operating margin and EPS exclude stock-based compensation expense, amortization of intangible assets and acquired in-process research and development expenses, restructuring expenses, and any one-time tax items, such as valuation allowance reversals. PTC provides this non-GAAP information to facilitate period-to-period comparisons of its operational performance by adjusting for episodic expenses. We believe that providing non-GAAP measures affords investors a view of our operating results that may be more easily compared to peer companies. PTC management also uses this and other non-GAAP financial information to evaluate, manage and plan our business because the information provides additional insight into ongoing financial performance. In addition, compensation of our executives is based in part on the performance of our business based on these non-GAAP measures. However, non-GAAP information should not be construed as alternative to GAAP information as the items excluded from the non-GAAP measures often have a material impact on PTC's financial results. Therefore, management uses, and investors should use, non-GAAP measures in conjunction with our reported GAAP results. Please refer to the attached tables for reconciliation between GAAP results and the non-GAAP supplemental information.

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## **SAP to Announce Results for First Quarter of 2008 on April 30, 2008**

25 April 2008

SAP AG will release its results for the first quarter of 2008 on Wednesday, April 30th, before the opening of the Frankfurt Stock Exchange.

Later that day, SAP executive board members Henning Kagermann, Co-CEO, Léo Apotheker, Co-CEO, and Werner Brandt, CFO will host a press conference call and a financial analyst call to review the results and discuss the company's business performance.

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The press conference call will be at 12:00 p.m. CET/ 06 a.m. EDT on April 30

Dial-in numbers:

From Germany: +49 69 5899 90701

From the UK: +44 207 190 1596

From the US: +1 480 248 5081

The session will be available for replay for one week. To hear the replay, dial:

From the U.S.: +1 303 590 3030 , the pass code for replay is: 3868784#

International: +44 207 154 2833 the pass code for replay is: 3868784#

Media may also listen in on the financial analyst conference call via Webcast at 3:00 p.m. CET / 9:00 a.m. EDT. The Webcast can be accessed via the SAP website: <http://www.SAP.de/Investor>.

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## **SofTech Announces Third Quarter Financial Results for FY 2008**

18 April 2008

SofTech, Inc. announced Q3 results. Revenue for Q3 FY 2008 was \$2.4 million as compared to \$2.9 million for the same period in fiscal 2007. The net loss for the current quarter was \$(133,000) or (\$.01) per share as compared to the net loss of \$(116,000) or (\$.01) per share for the same period in the prior fiscal year.

Revenue for the nine months ended February 29, 2008 was about \$7.7 million as compared to about \$8.4 million for the same period in the prior fiscal year. The net loss for the nine months ended February 29, 2008 was (\$350,000) or (\$.03) per share as compared to a net loss of \$(1,077,000) or (\$.09) per share for the same period in the prior fiscal year.

Earnings before Interest, Taxes, Depreciation and Amortization (“EBITDA”), a non-GAAP financial measure, was \$560,000 for the current quarter, as compared to \$623,000 in the comparable prior period. EBITDA for the nine months ended February 29, 2008 was \$1,790,000, as compared to \$1,099,000 in the comparable prior period. A reconciliation of EBITDA to Net 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 29, 2008 approximately 61% of the Company’s assets represent intangible assets related to these historical acquisitions. The Company does not anticipate making further acquisitions in the foreseeable future. For the current quarter, the amortization of these intangible assets was approximately 14% of total expenses and 14% of total revenue. 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

# CIMdata PLM Industry Summary

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 operations, which is disclosed 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.

## SOFTECH, INC.

### FINANCIAL SUMMARY

(in thousands, except per share data)

#### Statements of Operations:

For the Three Month Period Ended		
	February 29,	February 28,
	2008	2007
Revenue	\$ 2,445	<u>      </u> \$ 2,851
Income from operations	191	<u>      </u> 256
Net loss	(133)	<u>      </u> (116)
Loss per share	(.01)	<u>      </u> (.01)

  

For the Nine Month Period Ended		
	February 29,	February 28,
	2008	2007
Revenue	\$ 7,654	<u>      </u> \$ 8,353
Income from operations	678	<u>      </u> 2
Net loss	(350)	<u>      </u> (1,077)
Loss per share	(.03)	<u>      </u> (.09)

#### Reconciliation of EBITDA:

To arrive at EBITDA, net loss, calculated in accordance with GAAP, is adjusted below by adding back interest expense and non-cash expenses related to amortization of intangible assets resulting from acquisitions and depreciation expense.

For the Three Month Period Ended		
	February 29,	February 28,
	2008	2007
Net loss	\$ (133)	<u>      </u> \$ (116)
Plus: Interest Expense	324	<u>      </u> 372
Plus: Depreciation Expense	15	<u>      </u> 13
Plus: Amortization Expense	354	<u>      </u> 354
EBITDA	560	<u>      </u> 623

  

For the Nine Month Period Ended		
	February 29,	February 28,
	2008	2007
Net loss	\$ (350)	<u>      </u> \$ (1,077)
Plus: Interest Expense	1,028	<u>      </u> 1,079

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Plus: Depreciation Expense	50	35	
Plus: Amortization Expense	<u>1,062</u>	<u>1,062</u>	<u>—</u>
EBITDA	<u>1,790</u>	<u>1,099</u>	<u>—</u>

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## **Synplicity Announces First Quarter 2008 Results**

22 April 2008

Synplicity®, Inc. announced financial results for the quarter ended March 31, 2008.

Revenue for the quarter ended March 31, 2008 was \$18.6 million, compared to \$14.9 million for the quarter ended March 31, 2007. On a generally accepted accounting principles (GAAP) basis, net loss was \$1.9 million, or \$(0.07) per diluted share for the quarter ended March 31, 2008 compared to a net income of \$654,000, or \$0.02 per diluted share for the quarter ended March 31, 2007. For the quarter ended March 31, 2008, GAAP net loss included \$1.4 million in expenses related to the pending merger of Synplicity and Synopsys, Inc, \$849,000 in amortization of intangible assets and \$809,000 of stock-based compensation expense. For the quarter ended March 31, 2007, GAAP net income included \$248,000 in amortization of intangible assets and \$879,000 of stock-based compensation expense.

“We are pleased to report that revenue in the first quarter of 2008 came in ahead of our expectations,” said Gary Meyers, president and CEO of Synplicity. “Our ConfirmaTM product line for ASIC verification again showed substantial year over year revenue growth. Our unique combination of hardware, software and global support organization is driving market share gains in this important segment,” concluded Meyers.

On March 20, 2008, Synplicity and Synopsys announced that the companies had signed a definitive merger agreement for Synplicity to be acquired by Synopsys. The closing of the merger is subject to the satisfaction of certain conditions, including the approval of Synplicity’s shareholders and other regulatory approvals, including HSR approval.

### **Audio Webcast**

The Company’s earnings call will be webcast today at 2:00 p.m. Pacific, and may be accessed at <http://investor.synplicity.com>. The Company will discuss its first quarter 2008 results. Following completion of the call, a rebroadcast of the webcast will be available at <http://investor.synplicity.com> through June 30, 2008. For those without access to the Internet, a replay of the call will be available from 5:00 p.m. Pacific on April 22, 2008 through May 6, 2008. To listen to a replay, call (719) 457-0820, access code 1479317.

### **Business Outlook**

In light of the pending acquisition of Synplicity by Synopsys, Synplicity is withdrawing its 2008 business outlook and will not be providing a business outlook for the second quarter of 2008.

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## Implementation Investments

### ***ANSYS Technology Offers Swimmers Best Chance of Success in Build-Up to Beijing Games***

22 April 2008

ANSYS, Inc. announced that 35 swimming world records have already been broken by athletes wearing a new high-performance swimsuit designed using engineering simulation software from ANSYS. The Speedo® LZR RACER® suit, developed for elite swimmers and launched in February this year, has been proven in testing to optimize swimmer performance better than any suit to date. Seventeen out of 18 world records were broken at last week's FINA World Swimming Championships (25m) alone, suggesting the Speedo LZR RACER suit will make the headlines at the Beijing games.

Software from ANSYS played a critical role in the development of the suit. The technology was used to predict fluid flows around the body of an elite swimmer in the outstretched glide position (assumed immediately after the initial dive and following each lap's turn off the pool wall) to identify areas where drag, and its slowing effect, is likely to occur. In addition, the simulation analysis guided placement of specially designed drag-reducing Speedo LZR RACER panels to minimize this negative effect. Simulations then were run to confirm the Speedo LZR RACER suit was effective in reducing drag and enabling athletes wearing the suit to swim faster than ever before.

"While never forgetting the endless dedication and spirit of world-class athletes who continually hit new heights, we are thrilled with the success to date of the Speedo LZR RACER suit. This is clear evidence of the power of applying advanced engineering simulation technology to optimize all of the design metrics of a product. The groundbreaking innovation represented by the design of the Speedo LZR RACER suit could not have been achieved without the depth and breadth of technology from ANSYS," said Jim Cashman, president and CEO of ANSYS, Inc. "From the ANSYS perspective, we're finding that there really are no barriers to the potential applications and industries in which our software can be crucial to competitive advantage."

"Speedo is a world-class brand dedicated to continual innovation and working with the best, which makes ANSYS a perfect partner for us. The use of ANSYS software was an integral part of our design and development process, which, alongside with our other key partners, resulted in the development of the world's fastest swimsuit, the Speedo LZR RACER," said Jason Rance, head of Speedo's Aqualab research and development group.

[ANSYS](#) worked with Dr. Herve Morvan of Nottingham University and Optimal Solutions in conducting the computational fluid dynamics (CFD) research used to develop the Speedo LZR RACER suit. Speedo has long been recognized as the world's leading swimwear brand.

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### ***AVIO Selects iSIGHT-FD for Simulation Process Integration, Automation and Design Exploration***

23 April 2008

[Engineous Software](#) and AVIO S.p.A., a leader in aerospace propulsion, announced that AVIO has chosen Engineous Software's iSIGHT-FD as the platform for the company's simulation process integration, automation and design exploration system. iSIGHT-FD provides the desktop gateway to the FIPER enterprise-wide system engineering framework. The selection of iSIGHT-FD marks the first step in a long term partnership between the two companies.

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“We chose Engineous as our technology development partner because of their innovative approach to collaborative product development and their FIPER solution,” said Emilio Ferrari, Head of AVIO’s Research Technology Development, Product and Process Engineering. “Over the past 4 years during the European VIVACE project, we have been working with Engineous, their local partner Exemplar s.r.l., and other European jet engine manufacturing partners to develop an aeronautical collaborative design environment. We are pleased with the performance and services of both Engineous and Exemplar, and we look forward to expanding our partnership with them to bring a new level of collaborative engineering capability to our regional design and engineering partners.”

“We are pleased with AVIO’s selection of our product,” said Dr. Mike Sheh, VP, Engineous Europe. “It has been a rewarding journey with them and we praise our partner Exemplar s.r.l. for their superior services and support in winning the customer’s satisfaction and trust. We look forward to working with AVIO over the next several years to support and expand their vision for collaborative engineering in the Piemonte aerospace industries.”

The partnership between AVIO and Engineous is part of an effort in supporting the establishment of a Center of Excellence for Collaborative Jet Propulsion Design and Engineering in the Piemonte area. The near term milestone is to employ the state-of-the-art FIPER collaboration technology at the Center to enable AVIO, and their design and academic research partners, to conduct feasibility studies of simulation-based collaborative design processes.

## About AVIO S.p.A.

Founded in 1908, Avio is a leader in the aerospace sector and is present in Italy and abroad with 16 plants and 4800 employees. It works in four sectors of activities: modules and components for civil and military aircraft and helicopter engines; MR&O for civil and military aircraft and helicopter engines; space propulsion and tactical propulsion systems; aircraft-derived engines and automation systems for naval and industrial applications. It is Italy’s leading manufacturer of aircraft engines, a world leader for mechanical transmissions and number one in Europe in the field of solid propellant space propulsion systems. For more information, please contact Silvia Maoli, Public Relations and Communication, by phone at +39 0110084031, by fax at +39 0110084163, or by e-mail at [silvia.maoli@aviogroup.com](mailto:silvia.maoli@aviogroup.com).

## About Exemplar Srl.

Exemplar operates in the field of innovative services to companies by selling products for PIDO & CAE of the most important international software houses. Exemplar supplies solutions with a high added value, including training on these tools and methodologies based exclusively on customer specific requirements which creates dedicated software development. Located in Turin, Italy, in the Incubator I3P of the University “Politecnico di Torino,” Exemplar also collaborates with other leading universities. This emphasizes the strong connection between Exemplar and the world of Research and Technological Innovation. For more information, please visit <http://www.exemplarsolutions.it> or contact by phone at +39 0115645117, by fax at +39 0115645126, or by e-mail at [exemplar@exemplarsolutions.it](mailto:exemplar@exemplarsolutions.it).

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## **Daktronics Selects PTC® Product Development System to Develop Innovative Scoreboard Systems**

21 April 2008

PTC announced that [Daktronics](#), one of the world’s largest suppliers of electronic scoreboards,

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computer-programmable displays, and large screen video displays and control systems, has chosen the [PTC](#) Product Development System (PDS) for its product design and data management initiatives. With the PTC PDS, Daktronics will be able to improve collaboration among its design teams, integrate with its enterprise Manufacturing Resource Planning (MRP) system and accelerate new product introductions.

Since its founding in 1968, Daktronics has designed, manufactured and serviced more than 87,000 scoring and display systems for its 52,000 customers in nearly 100 countries, including displays for the Times Square Spectacular, the Kuwait Stock Exchange, and the Hippodrome De Paris Vincennes. Daktronics maintains a leadership position in the visual communication industry by refining and developing quality products that meet or exceed customer expectations.

A customer since 1997, Daktronics originally selected Pro/ENGINEER®, the core design offering within the PTC PDS, as the standard 3D CAD/CAM/CAE solution for its entire product line. Daktronics selected Pro/ENGINEER because it improves design collaboration and provides a consistent platform that its engineers can utilize from design concept to manufacturing. These capabilities allow Daktronics to boost productivity and resource allocation in order to increase the number of product ideas conceptualized, evaluated and ultimately manufactured. For example, Daktronics created a video display for a specific Coca-Cola® marketing initiative in New York's Time Square in just five months.

Discontinuities across the concept-design-manufacturing continuum often hamper an organization's ability to increase manufacturing capacity goals. To help meet its increased manufacturing capacity goals, Daktronics recently expanded its implementation to include Windchill®, PTC's Web-based content and process management solution designed to enable rapid data sharing of Pro/ENGINEER files and collaboration across development teams, better version control and improved change management processes. Windchill provides immediate access to the resources, information and capabilities needed to ensure efficient production planning and execution.

"We pride ourselves on the ability to develop and deliver high quality displays that communicate with millions of people every day around the world," said Brian Vogl, Engineering Design Applications Manager, Daktronics. "We are using the PTC Product Development System because its broad capabilities and flexibility lets our engineers design to customer needs. It is helping us achieve our vision to increase manufacturing capacity and deliver more products to market without sacrificing product quality and customer satisfaction."

"Daktronics' continued investment in PTC solutions demonstrates our success in delivering flexible, scalable products that have the capabilities needed to help electronics and high tech organizations address product design and manufacturing initiatives," said Chad Hawkinson, vice president product strategy, electronics, PTC. "We look forward to working with Daktronics as they realize value from their optimized product development and manufacturing processes."

Pro/ENGINEER and Windchill software was purchased through EAC Design Inc, a PTC Platinum Partner and Authorized Reseller since 2001. For more information on EAC Design, please visit <http://www.eacdesign.com>. Fishbowl Solutions provided the services for Daktronics' Pro/ENGINEER and Windchill implementation. For more information on Fishbowl Solutions, please visit <http://www.fishbowsolutions.com>.



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## ***Delcam's PowerMILL Use for Laser-Based Micromachining***

23 April 2008

Delcam's PowerMILL CAM system is being used by Oxford Lasers to program the company's range of laser-based micromachining systems. After many years' success with three-axis systems, Oxford Lasers is now producing five-axis equipment.

Dr. Dimitris Karnakis, Project Leader responsible for micromachining systems and applications at Oxford Lasers, believes that micromachining with lasers on a very small scale, offers distinct advantages over conventional machining technology. He believes that, comparatively, lasers can machine very quickly, more accurately and give a better surface finish, without the challenge of producing cutting tools that are both small enough and robust enough to cut shapes at the micron level. Similarly, he claims that lasers can produce the smallest shapes more effectively than using EDM.

Oxford Lasers was founded following pioneering laser research at Oxford University. Over the past 30 years, it has become established as one of the world's leading laser manufacturers. During that time, the company has focussed on two application areas; laser micromachining and high-speed imaging. The company is a world leader in using lasers for micro-drilling, which is used, for example, to form high-precision fuel injectors for automotive engines. It also runs its own manufacturing operation using its own lasers, mainly to demonstrate and prototype the systems to potential buyers. More recently, the company has moved into laser micro-milling.

When milling using a laser, the programming in the x and y directions is the same as a normal milling machine, but a lens moves in z to determine the width of the beam and, therefore, the position and depth of the cut. The depth of cut is also a function of the power of the laser and the material being processed.

Following success with its three-axis equipment, Oxford Lasers has moved into five-axis operation, with the extra axes produced by tilting and rotating the part. This approach allows optimisation of the Ra surface roughness achieving values well below one micron ( $\mu\text{m}$ ) by running different passes of the laser over the surface at different angles. It also enables undercuts to be created. This is generally accepted to be difficult with lasers because a laser on a three-axis machine cannot cut a truly vertical wall because of the inherent angle in the beam.

"We had problems with our existing software as soon as we tried to move to five-axis operation," remembered Dr. Karnakis. "Our customer suggested that we should contact Delcam and we have never looked back. We have been very satisfied, not just with the software but also with the supporting services, especially the knowledge and timely response of the staff on the help desk."

Several of the five-axis applications stem currently from university research departments. For example, a team at Aston University in Birmingham is using a system from Oxford Lasers programmed with PowerMILL to machine very narrow, high-aspect-ratio cavities into 125 micron-diameter optical fibres to allow manufacturing of fully-integrated in-line photonic devices for real-time sensing. Such in-line devices will be available from FiberLogix Ltd.

Machining these cavities using lasers offers a more flexible, precise and fast method compared to lengthy mechanical polishing methods and without the risk of permanent mechanical failure.

PowerMILL enables the production of complex 3D structures on a scale of a few microns, adding a new dimension to the design of photonic devices. It has now become possible to manufacture an entirely new family of devices with many applications over a wide area.

In another example, PowerMILL is used to laser machine microfluidic devices for biochemical analysis.

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These will allow biomedical researchers to manipulate fluids in networks of channels and monitor reactions requiring only small volume of samples and reagents, producing little waste and offering rapid analysis times at relatively low cost.

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## ***Delphi Cuts Development Time of Next-Generation Diesel Engine ECU With LMS Imagine.Lab AMESim***

23 April 2008

[LMS International](#) announced that Delphi has successfully implemented LMS Imagine.Lab AMESim multi-domain system modeling software to develop advanced Hardware-in-the-Loop (HiL) simulators to design and test Electronic Control Units (ECU's) for tomorrow's fuel-efficient, clean-running diesel engines.

Delphi opted for the LMS Imagine.Lab AMESim Engine Control solution especially configured for modeling engine and vehicle systems. Prior to the implementation, Delphi turned to LMS Imagine Engineering Services to develop a specific model for HiL applications. The resulting model contained representations of the diesel engine, fuel injection system, thermal aspects and driveline. All parameters for the ECU functional tests and engine control code calibration were incorporated in this single model as well.

By introducing more detailed physical representations and functional parameters in the HiL simulators, Delphi engineers were able to save considerable time during the modeling and simulation stages, increase the overall simulation accuracy compared to previous methods and run many more simulations to study specific system behavior. More broadly, the LMS Imagine.Lab AMESim model and associated simulation processes developed with LMS Imagine Engineering Services give Delphi an excellent methodology for future ECU and HiL projects.

In the long term, the LMS Imagine.Lab AMESim modular approach to creating engine and vehicle system models makes it possible for Delphi engineers to develop controls when implementing new ECU technologies. On the practical side, it reduces project costs and eliminates delays in maintaining and updating engine and vehicle models. With this new process Delphi was able to satisfy customer expectations for reliable engine control strategies that answer to the growing stringent demands of car manufacturers world-wide in regards to safety, reliability and costs control.

"The implementation of LMS Imagine.Lab AMESim and its multi-domain approach for our new-generation HiL simulators significantly helped us to reach Delphi's strategic objectives," explains Olivier Lanoux, Development and Validation Tools Team Leader at Delphi. "The new generation of engine models and the comprehensive new methodology made it possible to drastically reduce maintenance operations and development time, and provide reliable and high-quality ECUs and related engine controls."

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## ***Eurostep Limited Contracted by the UK Defence Logistics Organization***

23 April 2008

Eurostep Limited has been contracted to help the UK Defence Logistics Organization further develop

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Logistic Information Plans for the A400M Military Transport Aircraft and the Type 45 Frigate.

The PLCS and OAGIS standards have been selected by UK MoD for use on all new equipment and support contracts. The business benefits from using PLCS are explained in the Technology White Paper [Standards-based PLM: Re-engineering the Aftermarket with PLCS, Part 1 Business Benefits](#). OAGIS (<http://www.openapplication.org>) is a related standard for supply chain transactions.

Work on the Type 45 will identify where these standards could most effectively be applied to support the Frigates in service, when "Contracting for Availability" (CfA). The aim is to identify which exchanges offer the greatest potential for early cost savings and quality improvements, in the context of the introduction of the Type 45 Frigate into service.

On A400M, which is also exploring a CfA approach, the aim is to identify, and to provide guidance on costing, all of the steps involved in progressing:

- from a high level definition of an information exchange of interest (such as those described by the information flow arrows in MoDs' Logistic Coherence Information Architecture (LCIA) model)
- to a fully developed information exchange agreement, based on a PLCS Data Exchange Set (DEX).

For more information about DEXs, please download [Standards-based PLM: Re-engineering the Aftermarket with PLCS, Part 2 Technologies and Deployments..](#)

The work will draw heavily on Eurostep's experience in developing PLCS, the LCIA and the Through Life Support Standard, which UK MoD are developing as a potential replacement for DEF STAN 00-60, and will support activity within the UK MoD to bring these initiatives together.

For more information about Eurostep's work for the UK Defence Logistics Organization please contact [John Dunford](#).



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## ***Leading Utility Industry Equipment Manufacturer Selects RuleStream to Capture, Manage and Reuse Knowledge***

22 April 2008

[RuleStream Corporation](#) announced that TLT-Babcock, a manufacturer of custom axial and centrifugal fans and associated gas and ash handling equipment, has purchased RuleStream to extend its engineering process automation platform.

TLT-Babcock prides itself in delivering custom engineered solutions to meet unique customer requirements for utility fan and ash handling applications. Their SBE application will focus on automating both sales and engineering deliverables, including drawings, calculations, MBOMs and product costing, for their fan product lines.

"TLT-Babcock has a long, successful history with prior generation knowledge based engineering tools. We sought to build upon our success by taking advantage of recent technology advances in this area," said Glenn Huebscher, Engineering Manager at TLT-Babcock. "It's critical for us to have a scalable solution with sophisticated rule authoring capabilities and strong CAD integrations; one that is easily used by both sales and engineering personnel. We chose RuleStream for its ability to deliver data and drawings driven from complex design rules, its transparency in the application and source of those rules, and the ability for users to see and customize any rule or result during the product design process."

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"TLT-Babcock has long recognized the tremendous value gained by preserving and leveraging the know-how of their best engineers. Their selection of RuleStream further validates our technology leadership and the breadth of our vision," said Robert Nierman, CEO of RuleStream. "We're proud to have TLT-Babcock added to our client list in the industrial equipment and machinery manufacturing space, where it is incumbent on companies to differentiate themselves by delivering rapid, custom engineered solutions of very high quality."

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## ***Shipbuilder Selects IFS Applications for Increased Visibility of Costs and Inventory***

25 April 2008

IFS announced that [Austal USA](#) has chosen to implement IFS Applications to support its growing ship manufacturing business.

Austal USA, located in Mobile, Ala., manufactures aluminum vessels, such as commercial high speed passenger and vehicle-passenger ferries, cruise ships, freight and offshore support ships, and high performance military vessels.

"Our recent significant growth has caused a need to reduce the amount of manual processes within our business and create more visibility of our costs and inventory," Austal USA Director of Supply Chain Management Terry Schroeder said. "We chose IFS Applications to aid in the automation of tracking our costs and project schedules. We were impressed with what IFS Applications could do for our business, such as increase our visibility of costs, material lead time, and inventory, as well as provide us a reliable process for tracking project schedules."

"IFS Applications has been adopted by naval shipyards that are facing government mandates to adopt leaner project centric manufacturing processes," IFS North America President and CEO Cindy Jaudon said. "Commercial shipyards like Austal USA will not only benefit from adopting the technology behind these lean practices, but also optimize IFS Applications for their own business purposes rather than for regulatory compliance."

IFS Applications offers project-centric capabilities that have proven to be a good fit for shipbuilders around the globe. IFS functionality for project-driven manufacturing, earned value management, and service management allow shipbuilders to leverage lean manufacturing and financial processes and comply with government mandates. IFS' shipbuilder customers include Akers Yards, Todd Pacific Shipyards, Ursus Shipyards, Uzmar Denizcilik and Stocznia Marynarki Wojennej S.A.

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## ***Simulation Helps Solve Difficult Thermal Challenge in Tower Mounted Amplifier***

April 2008

Thermacore used Flomerics' Flotherm thermal simulation software to solve a challenging thermal management problem in a tower mounted amplifier (TMA) for a cellular base station. Thermal simulation showed that the heat from the 1 by 1.5 inch amplifier chips did not spread out sufficiently to utilize the full extent of the heat sink, causing the chips to overheat. The problem was addressed by adding a vapor chamber to each chip to reduce the spreading resistance and utilize the full extent of the heatsink. The simulation showed this approach reduced the temperature at the base of the heat sink to

acceptable levels.

## Thermal challenge in cellular base station

Matt Connors, Applications Engineering Supervisor for Thermacore, said that in the past the company would have used a spreadsheet to evaluate the design. “But for the last several years we have used thermal simulation software to evaluate nearly every thermal management challenge provided by our customers,” Connors said. “This method requires far fewer assumptions and provides much more accurate results than we were ever able to obtain with a spreadsheet. Accuracy is critical in thermal design because our customers want to know what will and won’t work as quickly as possible so they can get their product into manufacturing and start generating revenues.”

“When we first decided to use thermal simulation we polled our customers and asked them which software package they would like to have us use,” Connors said. “They said that they preferred Flotherm over the other leading thermal simulation packages. They use Flotherm themselves so they have confidence in its predictions and can easily incorporate our models into their full system models. Since we began using Flotherm we have been very impressed with its ability to accurately simulate thermal management challenges. On average, our simulation results predict real-world measurements within 5%.”

The simulation results showed that the vapor chamber efficiently spread the heat across the full width of the heatsink so that each of the fins was fully utilized. This reduced the temperatures at the base of the heat sink to acceptable levels. Thermacore built a physical model consisting of a heat source equivalent to a single RF amplifier chip and the vapor chamber and the third of the heat sink that cools this chip. As usual, the physical testing results matched the simulation results within 5%. The improved cooling enables more powerful amplifiers to be placed in compact enclosures.

“This application demonstrates how simulation provides a competitive advantage to thermal solutions companies that are experienced in its use,” Connors concluded. “Simulation is much more accurate than conventional formula-driven thermal engineering methods and also takes less time. So we can investigate more design alternatives with a very high level of confidence in the accuracy of the results. Thermacore’s strength is not in selling metal by the pound but rather in the design expertise that we deliver to our customers. Our expertise in thermal simulation plays a key role in meeting and exceeding our customers’ expectations.”

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## **Toshiba Adopts Synopsys Sentaurus TCAD Simulation for Development of Next-Generation Device Technologies**

23 April 2008

Synopsys, Inc. announced that Toshiba Semiconductor Company has adopted Synopsys' Sentaurus™ TCAD software for simulating etching and deposition in the development of next-generation devices. As a result, Toshiba is able to reduce research and development time and trial production costs, while optimizing next-generation device structures and yield, by quantitatively estimating process margin before and during volume production.

With shrinking device feature sizes, physically based simulation of deposition, etching and other topographical processes becomes increasingly important. This is because even minor changes to device shapes can have a major impact on process margin and electrical performance for many kinds of

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devices. Moreover, deposition and etching processes can also impact macroscopic features due to micro-loading effects. Sentaurus TCAD software, specifically Sentaurus Process and Device, use detailed physical models for simulating the fabrication process and electrical behavior of a wide range of semiconductor devices, and are broadly used in the research, development and optimization of semiconductor technologies. Sentaurus Topography extends these capabilities to physical etching and deposition.

"We have recognized for many years the importance of physical etching and deposition simulation in developing our process technologies. With TCAD being an essential part of our technology development, we have been able to reduce trial production cost and improve device yield," said Shigeru Komatsu, Toshiba Semiconductor Company's chief knowledge officer. "We are happy with Sentaurus Topography's performance, accuracy, and integration with other Sentaurus TCAD tools, and that's why we will be using it for our daily work in optimizing and characterizing next-generation devices."

The Sentaurus TCAD platform provides a comprehensive capability to simulate detailed and realistic process structures for subsequent electrical analysis by Sentaurus Device. In addition to the core etching and deposition models, Synopsys and Toshiba have also been collaborating to incorporate Toshiba's surface reaction kinetics modeling technology into Sentaurus Topography, allowing specific gas chemistries to be included as part of the simulation of topography modifying processes. This advanced module is expected to be commercially available in the second half of 2008 as part of the Sentaurus Topography offering.

"Physical etching and deposition simulation is a key component in our roadmap for addressing advanced process technologies and device structure designs," said Terry Ma, group director, TCAD R&D at [Synopsys](#). "The advanced surface kinetics modeling technology we obtained from Toshiba represents a great collaboration, bringing key technological advances in physical modeling to the TCAD community."

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## **TTM, INC. Adopts Cadence Holistic DFM Solutions for 65NM and Below Designs**

22 April 2008

Cadence Design Systems, Inc. announced that Time To Market, Inc. (TTM), a leading ASIC design house, was able to detect hot spots and optimize yields for a complex 65-nanometer design using a holistic design-for-manufacturability flow from Cadence that includes the Cadence® SoC Encounter™ XL system and the Cadence Litho Physical Analyzer. The proof-point project provided TTM with state-of-the-art DFM experience and allowed the company to move to Cadence model-based DFM solutions for ongoing 65-nanometer and below designs.

"Time To Market, Inc. is focused on providing customers first-pass working silicon that meets both performance and yield goals," said Venkata Simhadri, president and CEO of TTM. "Cadence's holistic, integrated DFM solution helped us to achieve these critical goals by addressing manufacturing issues during the design phase and improving productivity and manufacturability. We used the Cadence SoC Encounter XL and Litho Physical Analyzer to optimize a complex 65-nanometer chip design and prevent lithographic errors from occurring in chip manufacturing, for faster time to production and an improved yield for our customer."

"Time To Market's primary differentiation is providing accelerated time to market for nanometer designs and mitigating customers' risk," said Nitin Deo, DFM group marketing director at Cadence Design

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Systems. "By using our model-based DFM analysis, TTM validated its customers' 65-nanometer networking SoC in record time, working the design into a highly manufacturable state in a very short time. Customers are finding that addressing manufacturability issues during the design stage can reduce schedule variation and yield risk at advanced nodes."

TTM chose Cadence due to the quick and reliable results obtained with its model-based DFM products, which can improve yield on aggressive designs at 65 nanometers and below. TTM was impressed with the integration of the Cadence DFM solution and Cadence digital implementation technologies — which help to speed overall design cycle. This approach aligns very closely with TTM's holistic design strategy and allows the company to tackle the design and manufacturing challenges at 65nm and below with [Cadence](#) DFM solutions.

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## Product News

### ***Agilent Technologies Announces Expanded RF/Mixed-Signal Simulation Coverage for Wireless Communications IC Design***

22 April 2008

Agilent Technologies Inc. announced the release of the latest version of its RFIC simulation software, GoldenGate. This release represents an expansion in RFIC simulation coverage for wireless communications products, with 5x transient simulation speed improvements and new mixed-signal simulation capabilities, resulting in shorter product development times.

"RFIC designers have limited simulation coverage today -- simulating a fraction of what they need to before the tape-out deadline," said Marc Petersen, product marketing manager with Agilent's EEs of EDA division. "They are missing design problems and incurring costly re-spins. GoldenGate 4.2 enables more simulation coverage with increased speed and capacity, and takes advantage of new ways to uncover RF/mixed-signal problems early in the design cycle."

In RFIC design, transient (SPICE) simulations provide time-domain results. GoldenGate 4.2 features improvements to transient simulations, achieving faster speeds of 2x to 4x on single-core computers and typically 5x for quad-core computers. The transient improvements also help speed up the frequency-domain simulation process. Faster simulations allow for more extensive use of statistical design throughout the RFIC design cycle, without compromising tight development schedules.

Digital State Sweeping (DSS), a new GoldenGate 4.2 feature, provides an automated solution to the problem of sweeping an RF design through its many digital control states. Performing the sweep manually is a tedious simulation task. DSS automates operational verification of the control states and provides interface and connectivity testing as well as digital-RF connectivity debugging, allowing digital and RF teams to work concurrently.

Agilent's GoldenGate 4.2 also includes:

- the ability to perform mixed-signal simulations on a combination of RF and digital circuits represented by Verilog-AMS blocks;
- new wireless sources from the Agilent Ptolemy simulator, including transmit/receive waveforms for 802.11(WiFi), 802.16 (WiMAX™/WiMAN), TDSCMDA, 3GPPFDD, and custom, user-defined

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wireless sources, and;

- improved Monte Carlo algorithms (Latin Hypercube Sampling and Hammersley Sequence Sampling) for faster Monte Carlo coverage with 5-10x fewer trials.

Agilent's GoldenGate software is an advanced simulation and analysis solution for integrated RFIC design. Its simulation algorithms are optimized for the challenging demands of today's complex RFIC design, enabling full characterization of complete transceivers prior to tape-out. To ensure device manufacturability and reduce design spins, GoldenGate takes advantage of both frequency-domain and time-domain simulation capabilities to perform necessary analyses on today's mixed-signal RFICs.

For more information about GoldenGate visit <http://www.agilent.com/find/eesof-goldengate>

To request a demo of GoldenGate, visit <http://www.agilent.com/find/eesof-goldengate-demo-pr>.

## **U.S. Pricing and Availability**

Agilent's GoldenGate Release 4.2 is expected to be available in early May, with prices starting at approximately \$42,000.

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## ***Arena Solutions Announces New EDA Adapter Designed to Integrate Arena PLM's Centralized Product Record With Schematic Design Tools***

24 April 2008

Arena Solutions announced a new electronic design automation (EDA) adapter for integrating Arena PLM's centralized product record with engineering's schematic design tools, so engineers can make better design decisions, maximize reuse of preferred company parts, accelerate design completion, and easily generate manufacturing-ready bills of materials (BOMs). With this integration, design and engineering groups can consolidate electronic component databases and get access to constantly updated component information such as preferred parts, descriptions, parametric information, symbols, footprints, and datasheets. The complete EDA integration solution from Arena PLM includes all necessary configuration tools and works with Altium Designer, Mentor Graphics' DxDataBook, and CADENCE's OrCAD Capture CIS, among others.

Currently concluding beta-testing, with a full version available in early June, Arena Solutions is now pre-selling The Arena PLM EDA Adapter at a discounted, promotional price for those who purchase it before June 1, 2008. More information about Arena PLM integrations can be found in the Integration section of the Arena website. For further questions or to pre-purchase the adapter, contact Arena PLM integration professionals at 1.866.937.1438, or email them at [sales@arenasolutions.com](mailto:sales@arenasolutions.com).

Companies from around the world are participating in The Arena PLM EDA Adapter beta-testing program. They include:

- North America-based Openpeak, Inc., which creates, designs, and develops communication systems and devices that enable simple user control of VoIP telephony, digital media, Internet content, messaging applications, and consumer electronics. The company is using the EDA Adapter to connect to CADENCE OrCAD Capture CIS.

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- Australia-based Structural Monitoring Systems, the developer of proprietary crack-detection technology for use in a broad range of commercial, military and industrial applications, is using the EDA Adapter with Altium Designer.
- iRex Technologies BV, the Netherlands-based inventor of electronic paper -- and some of the most innovative electronic readers and digital sketchbooks on the planet -- is using the EDA Adapter to connect with Mentor Graphics' DXDatabook.

The Arena PLM EDA Adapter offers a number of benefits, including the ability to:

- Make better design decisions that are based on complete information  
Arena PLM captures, organizes and centralizes product data -- cost and technical performance parameters along with lifecycle status information -- so engineers always have current part and assembly information. The Arena PLM EDA Adapter supports rapid part selection with part browsing by type as well as part querying. Attribute links within the schematic design software provide direct online access to supplementary information like component datasheets within Arena PLM.

- Fully cost BOMs early in the product lifecycle

Once functional design is complete, a BOM can be imported into Arena PLM to generate a fully costed BOM. Arena's advanced cost management tools provide rolled-up cost BOMs for prototype and production runs, based on existing estimated costs or on active quoted cost data in Arena PLM. The software's costing module also provides cost breakdowns to help identify the most effective opportunities for cost improvement.

- Instantly share board layouts

The Arena PLM EDA Adapter makes it easier for design engineers to initiate the board layout process. Because the BOM is generated directly from the schematic linked to Arena PLM part numbers, the design engineer can import the netlist to Arena PLM and share it with

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the board design firm. With Arena's advanced sharing tools, suppliers and partners always have correct and current information for cost quotes and design work.

- Easy transfer of information for prototype or production runs

After board layout, the board design team can add Gerber files directly to the printed circuit board (PCB) assembly and generate complete documentation for quoting a prototype run. With one click, the entire package can be shared securely with multiple fabrication houses to quote a prototype run based on desired turn-time. Arena PLM's purchasing view generates flattened and net BOMs with complete AML/AVL information that fabrication houses can use to obtain current cost data and provide quotes by line item or at the assembly level.

"Design engineers can make better design decisions when they have access to up-to-date information on each part," said Craig Livingston, chief executive officer of Arena Solutions. "Engineers can rely on the fact they're seeing current product information because the Arena PLM EDA Adapter ensures that the schematic design software's part library is automatically and constantly updated."

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## ***Automate Imaging Workflows With New Spicer Scan Review™ for Imagenation®***

23 April 2008

Spicer Corporation announced the release of **Scan Review™ for Imagenation®** View Markup and Edit (VME). With Spicer Imagenation and Spicer Scan Review, reprographics businesses and organizations with engineering departments benefit from:

On-the-fly workflow applications

Seamless integration with wide format scanners for immediate access and review of documents, images and engineering drawings

A single source solution to reduce total cost of ownership

With its scan-to-file ease of use, Scan Review automatically opens scanned images and raster files in Spicer Imagenation® VME for review, optional image cleanup and final file acceptance or rejection. Users can efficiently scan, review, clean up, print and plot color, grayscale and bilevel documents and save to standard formats, such as CALS, TIFF or PDF, for electronic storage and distribution.

"Spicer Imagenation plus Scan Review increases the speed of scan-review processes and helps organizations automate their document imaging workflows across the enterprise," says Paul Greenwood, Imagenation Product Manager. "Users see improved production efficiency while working with a range

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of document types, corporate information systems, and input and output devices.”

Spicer Imagenation’s diverse applications, including engineering drawing review, format conversion, redaction of confidential information, and document archiving, are used globally in Manufacturing, Government, Utilities, Insurance, Financial Services and Reprographics markets.

**Learn more about Spicer's scan-review solutions** or email [info@spicer.com](mailto:info@spicer.com) for details on the Scan Review product.

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## ***Blue Ridge Numerics Named Autodesk Preferred Industry Partner***

21 April 2008

[Blue Ridge Numerics, Inc.](#) announced that it has been chosen as a Preferred Industry Partner by Autodesk, Inc.

Blue Ridge Numerics has enjoyed a longstanding partnership with Autodesk in both the industrial and educational markets. In 2002 the company launched CFdesign for Inventor, the first CFD software to use native Autodesk Inventor assemblies for associative design studies.

Today CFdesign extends the Digital Prototyping capability of Autodesk Inventor software by creating a 3D digital flow bench, thermal test rig, and wind tunnel on the engineering desktop. In this environment engineers can readily see aspects of product performance not available from traditional, expensive and time-consuming physical testing methods. This integrated digital solution helps companies achieve a more predictable process to develop breakthrough products, win more customers, assure quality, and protect margins.

“Autodesk is a great partner of Blue Ridge Numerics and we continue to see a very aggressive adoption rate of CFdesign within the Autodesk Inventor customer base”, stated Blue Ridge President Ed Williams. “It is truly rewarding to see teams and divisions within best-in-class companies such as Danfoss, Nestle, Parker, and Siemens optimizing new product performance upfront in their design processes when the cost of change is lowest and the impact on profitability is greatest.”

“We’re proud to be working closely with an industry leader like Blue Ridge Numerics,” said Jim Quinci, director of the Autodesk Developer Network. “Together with our partners, Autodesk is committed to developing solutions that help customers experience their designs before they’re real. Partners like Blue Ridge Numerics are central to achieving this goal.”

The Autodesk Preferred Industry Partner program delivers industry-specific software solutions that leverage the power of Autodesk’s 3D modeling and simulation technologies to help create a competitive advantage for customers. Members of the Autodesk Preferred Industry Partner program are market-leading software companies that Autodesk is working closely with to provide customers the breadth and quality of tools they need to make the move from 2D design and drafting to 3D modeling and simulation.

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## ***CENIT and Right Hemisphere Announce Worldwide Partnership***

22 April 2008

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Silicon Valley based Right Hemisphere has selected CENIT AG to be one of its worldwide value-added resellers (VAR). As a Right Hemisphere VAR, CENIT is authorized to distribute and support Right Hemisphere's software in North America and Europe.

An SAP Special Expertise and Software Development Partner, CENIT has the necessary technical expertise to deliver and support Right Hemisphere's solutions in an SAP user environment. The integration of Right Hemisphere's Deep ServerT enterprise software and the SAP® Product Lifecycle Management (SAP PLM) application, for example, enables manufacturing companies to automatically merge computer-aided design (CAD) data with business data. Bringing CAD and business data together gives manufacturers a comprehensive view of their products - including pricing, ordering, support and service - that can be accessed anytime, anywhere.

In addition to unifying and centralizing key engineering and business data, CENIT can use Right Hemisphere's software to help its manufacturing customers combine text and visual data into Adobe® PDF® files. With these PDF files, users can communicate complex 2D/3D product information across departments within an enterprise and to colleagues at other companies without the need for CAD software licenses. Users of SAP modules ERP and SCM can thus now be involved in the processes in the same way as hitherto only SAP PLM users could. Service manuals, assembly instructions or design guides - everything is possible and made visible in 3D-format. First applications in aerospace and consumer goods industries have already been successfully implemented.

"CENIT is one of SAP's most renowned technology partners. They've completed over 150 successful SAP PLM customer projects and have an active customer base of over 1500 manufacturers," explains Michael Lynch, CEO at Right Hemisphere. "This high level of expertise made them an obvious partner for Right Hemisphere. Aside from CENIT's technical skill, we also like the fact that the internationally renowned company that also has a subsidiary in the US is so well-established in Europe, with branch offices in all major German cities and subsidiaries in France, Switzerland, and Romania. This will be a great asset to us and help us expand our overseas business."

"Our goal is the optimization of end-to-end processes through integrated PLM solutions," says Horst Heckhorn, SAP Solutions Director at CENIT AG and CEO of CENIT North America. "Right Hemisphere's solutions supplement SAP's current solutions - those being our core competency, we can bring all our expertise into this cooperation. The unique selling point that the Right Hemisphere solutions provide is an advantage that we and our customers can clearly profit from. Our ability to integrate the Right Hemisphere Deep Server software into an SAP IT infrastructure allows our customers automated visual communication and collaboration for data exchange of complex product information from the PLM supply chain: from first draft to the final product and its marketing. Now departments that are not directly involved with production processes can also benefit from the advantages. We are convinced that the solutions will be very interesting to a wide range of customers - from aerospace to shoe manufacturers."

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## ***Ceon Launches 'Rapid Product Modeling' Service to Accelerate Product Management Transformation***

21 April 2008

Ceon announced the launch of its Rapid Product Modeling (RPM) service. The Ceon RPM service enables Communication Service Provider business executives to take the required initial steps to begin

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the product management transformation process across their enterprise.

Line-of-business executives within communications service providers have recognized the strategic imperative to transform their enterprise product management processes to support the rapid delivery of differentiated converged products. Furthermore, most have recognized the need to eventually adopt purpose-built product lifecycle management (PLM) and product catalog solutions.

These executives recognize that taking a strategic approach to product management will increase their competitiveness, and adoption of full-featured product lifecycle and catalog management solutions will enable them to speed-up, streamline and simplify the development, launch, configuration and management of their products.

Given the scale of the overall challenge, operator business executives face a variety of organizational, process and IT system roadblocks. In most cases, these business executives do not have a clear idea on how to get started down the transformation path.

Ceon RPM is the answer. RPM is a ‘fast start’ approach that serves as the proving ground and catalyst for mobilizing the organization in making the broader commitment and investment to execute the required product management initiatives.

As part of an RPM project, Ceon consultants will help the operator standardize how products are represented and modeled, map an agreed to subset of the operator’s existing products to the new standardized information model (TeleManagement Forum SID-based), and enable testing, viewing and validating the product structure and definitions by the relevant operator personnel involved in the project. To read the detailed service description document, visit <http://www.ceon.com/rpmdoc.html>.

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## ***Comet Solutions, Inc. Partners with T-Solution to Bring First Integrated Simulation Environment to China***

16 April 2008

[Comet Solutions, Inc.](#) announced an international distribution agreement with China-based T-Solution Co. Ltd. The partnership will enable T-Solution to sell Comet Solutions' suite of integrated applications on an exclusive basis to customers throughout the People's Republic of China and Hong Kong, thus introducing to this vast market the use of reusable simulation templates for a superior, streamlined product development process.

"Bringing the breakthrough benefits of Comet for product simulation to companies in China is the next logical step in the expansion of our customer base," said Dan Meyer, president, Comet Solutions, Inc. "China has been known for its strength in production but now Chinese manufacturers seek competitive advantages in design and engineering. The market is ready to take advantage of the reusability and automation Comet brings to conceptual engineering. T-Solution's expertise and support services in CAE as well as proven track record of satisfied customers make them a perfect choice for our partner in China."

Until now, organizations have been unable to utilize simulation results early in the design process. While in the Comet environment, engineers use Simulation Templates, which remove the complexities of multi-physics, multi-tool analysis and put a reusable process and reusable abstract engineering models in the hands of more team members.

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With access to knowledge gained from simulation results up-front in the design cycle, organizations reduce costs by detecting problems early and thus eliminating tooling mistakes and costs associated with warranty issues when low-quality products are released to the market.

T-Solution is headquartered in Shanghai, China and is an established leader in providing engineering simulation tools and process and technology consulting services from its four locations across China. With a focus on innovative CAE software and related services, T-Solution delivers localized solutions and support, tailored to the needs of its customers. The company works across all market sectors.

"This partnership will bring tremendous benefits to our customers in China and to the expansion plans of our business." said Roy Chen, president, T-Solution. "Chinese industry and government are investing heavily in tools for streamlining the simulation process and making it easier to use CAE software. We believe there is huge market potential for the pioneer in this area, and Comet provides an innovative, open solution that can be the winner in China when combined with our engineering application knowledge and services."

## About T-Solution

T-Solution is a leading engineering solution provider for the research and development industry in China. China led by management all with more than 10 years experience in the Chinese R&D sector. T-Solution offers sophisticated software system integration solutions and related simulation tools, including mechanical, CFD, electromagnetic, processing, controlling, acoustics and virtual reality software. The company has four offices in: Shanghai, Beijing, Chengdu and Guangzhou.

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## ***Geometric's DFMPRO™ Now Enables Users to Add Design for Manufacturability (DFM) Rules In-House***

22 April 2008

Geometric Ltd. announced the release of DFMPRO™ 2008 EX, an integrated tool on SolidWorks® which helps to get designs right the first time. Organizations can now add their own DFM checks and rules to automate in-house DFM practices into their standard operating procedures.

DFMPRO is a "Design for Manufacturability" product for designers and manufacturing engineers to facilitate upstream manufacturability validation and identification of design areas that are difficult, expensive or impossible to manufacture. DFMPRO allows quick and in-depth examination of product manufacturability. DFMPROpress, a lighter version of DFMPRO is shipped with every seat of SolidWorks 2008.

DFMPRO 2008 EX, the latest release of DFMPRO, permits organizations to build their own custom rule libraries. Basic knowledge of Visual Basic (VB) scripting or SolidWorks macro languages is adequate to build custom rules. DFMPRO 2008 EX now also supports easy sharing of manufacturability knowledge across departments, suppliers and vendors, thus improving their efficiency by reducing manufacturability issues. Advanced customization on the product can be provided by DFMPRO product resellers, and also directly from Geometric.

DFMPRO 2008 EX has also been enhanced with additional out-of-the-box rules for machining and sheet metal fabrication processes.

A limited period trial version of DFMPRO 2008 EX is available at <http://www.dfmpro.com>.

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For further details about Geometric, please visit <http://www.geometricglobal.com>.

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## ***Geometric Introduces 3DPaintBrush, a Design Visualization Software***

22 April 2008

Geometric Ltd. today announced the release of its new product, 3DPaintBrush™, a visualization software that helps create near photo-realistic images, animations, and videos from existing computer-based 3D models within minutes. 3DPaintBrush is suitable for design professionals who need to create images and animations instantly. It's easy to use features make 3DPaintBrush attractive for 3D enthusiasts too.

3DPaintBrush allows real-time rendering of 3D models to create impressive digital image outputs for architects, interior decorators, industrial product designers, engineers simulating environments, advertising creative professionals, and multi-media content developers (animators; gaming, multimedia and elearning content creators). It's easy-to-use features include the ability to import and combine 3D models from multiple sources, manipulate material properties, adjust light settings, add backgrounds and environments, create animations, and finally save the results in popular image formats, or export as Shockwave Flash and other popular movie formats. For users of Microsoft® Expression Blend™, 3DPaintBrush provides the ability to export in XAML format to create engaging web-connected experiences for Windows.

Integration with Google 3DWarehouse provides easy access to millions of existing 3D models. 3DPaintBrush is based on DirectX 9.0, and it is supported on Windows XP SP2 and Windows Vista.

Salient features of 3DPaintBrush include:

- Import SketchUp, DWG(3D only), 3DS, OBJ, IGES and STEP file formats
- Extensive inbuilt set of textures and HLSL shaders
- Drag and drop lights
- Drag and drop pre-defined animations
- Export scenes to BMP/JPG/PNG/SVG/XAML formats
- Export Animations to Flash and AVI formats
- Insert models into an existing 3D scene
- Import image files as textures
- Insert background image or 3D Skyboxes for composing realistic scenes.

To download a fully functional limited period trial version, visit <http://www.3dpaintbrush.com>. The product continues to function in save and export disabled mode, after the trial period.

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## ***Hankuk Valence to Distribute Valor's Assembly Solutions in Korea***

22 April 2008

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Valor Computerized Systems Ltd. announced that Hankuk Valence, the Korea based electronics manufacturing solutions provider, will be distributing its latest process engineering and manufacturing monitoring and control platforms in Korea. Hankuk Valence has more than 25 years of experience in the Korean electronics manufacturing industry, serving customers such as Samsung, LG, Hyundai Motors and others.

The relationship between Hankuk Valence and Valor started nearly 10 years ago with Hankuk Valence successfully introducing Valor's Design for Manufacturing (DFM) tools to the Korean market. Since then, the two companies have enjoyed a long-standing successful relationship. With the addition of Valor's assembly solutions to its portfolio, Hankuk Valence will be now be promoting Valor's complete product suite in Korea, including vPlan – Valor's next-generation, enterprise-level process engineering software solution, and vManage - Valor's software solution for End to End Manufacturing Monitoring and Control.

“The long-standing partnership between Valor and Hankuk Valence has proven beneficial for both companies, as well as for the Korean electronics manufacturing market,” said KH Ong, president of [Valor](#) Far East, “and the addition of Valor’s vPlan and vManage to Hankuk Valence’s offering is the obvious next step in the development of this relationship.” “I’m very excited to introduce the world’s leading electronics production engineering solution in Korea,” said HD Kim, president of Hankuk Valence. “Products like Valor’s vPlan and Valor’s DFM tools can provide a significant competitive advantage to our customers by dramatically reducing their production preparation time and their CAD to Manufacturing process, and I am certain that such contribution will not be overlooked.” About Valor

Valor is a global provider of productivity improvement software solutions for the printed circuit board, or PCB, manufacturing supply chain. PCBs are the principal electronic interconnect technology used in the vast majority of electronic products sold today. Valor’s solutions target three key segments in the PCB manufacturing market: design of the physical layout of the PCB, fabrication of the bare PCB, and assembly of PCB components.

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## ***Kubotek Delivers Tenth KeyCreator Release Committed to History-free, Feature-based Modeling Approach***

22 April 2008

Kubotek USA announced Kubotek KeyCreator™ 7.5, a new version of its widely used mechanical design and manufacturing CAD/CAM software. This release marks the tenth KeyCreator enhancement release produced by Kubotek since the history-free, feature-based product was first introduced in February of 2004. KeyCreator 7.5 includes numerous customer-driven productivity enhancements, performance improvements, and as well as advances in Kubotek’s Face Logic modeling technology.

“When [Kubotek](#) announced in 2004 that we were pursuing an alternative to the mainstream, history-based modeling approach we knew it was a revolutionary concept,” said Robert Bean, Kubotek USA Executive VP. “We’ve been in a unique position to observe this technology trend come to prominence in the Mechanical CAD market over the last three years. We are proud of our record of leadership in this area and excited about the major benefits this trend will bring to customers.”

KeyCreator 7.5 further expands the capabilities of last year’s Direct Dimension-driven Editing function to support editing of bolt hole circles and matching sets of holes and shafts or pins. Direct Dimension-driven Editing allows users to use an intuitive parametric editing interface on any solid at any time,

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regardless of how or where it was constructed.

The ability to calculate mass properties such as volume and center of gravity on polygon mesh models (polygonal models) has been provided in KeyCreator 7.5. This capability significantly expands the usefulness of STL models and the lightweight polygonal model functionality added in recent releases. KeyCreator can now accurately analyze the mass properties of a mixed set of polygonal and solid models which frees users to represent purchased or unchanging parts in a large assembly with a polygonal model data type. Using a polygonal model instead of a solid will often save 10 times the file size and memory of what the solid of the same shape would have occupied, dramatically improving performance with large assemblies.

For the third straight release added sheet metal specific tools save users a dramatic amount of time in design and manufacturing engineering of sheet metal parts. In KeyCreator 7.5 users can now quickly insert relief features into 3D sheet metal part designs. A user-driven enhancement in detailing includes global detail settings which allow for faster application of formatting changes to all details in a drawing. Additional user-driven detailing enhancements include a dramatic crosshatch update performance increase and a new option to offset crosshatch line location.

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## **Lattice Semiconductor and Synplicity Expand Partnership**

21 April 2008

Lattice Semiconductor and [Synplicity](#)®, Inc. announced an expansion to the companies' existing OEM agreement. Under the terms of the new agreement, Synplicity will be Lattice Semiconductor's exclusive synthesis partner, and Lattice will broaden its synthesis offering in its ispLEVER® design tool suite to include the Synplify Pro® logic synthesis software for higher-level designs. As of May 2008, Lattice will distribute only the Synplify® and Synplify Pro synthesis products with its FPGAs and complex programmable logic devices (CPLDs). The companies also will work to deliver expanded support of the Synplify® DSP solution to algorithmic designers who seek to accelerate their DSP designs using Lattice FPGAs.

"A critical ispLEVER design tool priority for Lattice continues to be a focus on delivering industry leading timing closure capability to FPGA designers," said Chris Fanning, corporate vice president, enterprise solutions, Lattice Semiconductor. "Lattice is excited to now bundle Synplify Pro's leading FPGA synthesis technology with our ispLEVER design tool suite, and to offer our customers better performance and logic efficiency capabilities."

According to Joe Gianelli, vice president of business development and strategic alliances, Synplicity, "We are very pleased to become the exclusive synthesis provider for our long term partner Lattice. With this deeper relationship, Lattice and Synplicity will work together more effectively to improve our collective tool flows for increased customer satisfaction. Designers will now be able to access the advanced features of our Synplify Pro product, especially when using exciting new Lattice devices such as the [Lattice ECP2M™](#), [LatticeXP2™](#) and [LatticeSC™](#) families of high-performance FPGAs."

Synplicity's Synplify and Synplify Pro synthesis software products support all Lattice devices, including the new LatticeECP2M and LatticeXP2 FPGA families, creating powerful solutions for aerospace, wireless, telecom and digital multimedia applications. Through advanced 90-nm silicon technology, an optimized architecture and proprietary circuit design, Lattice devices reduce total solution costs.

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## ***Moldflow Announces the Release of Moldflow Communicator 2.0***

24 April 2008

Moldflow Corporation announced the release of Moldflow Communicator™ 2.0, a free simulation results viewer that allows distributed product teams to visualize, quantify and compare Moldflow analysis results. New features allow the Communicator to be accessed by a wider audience and updates to the user interface and new operating system support should result in increasing its position as the leading plastics simulation results viewer.

One of the key new enhancements to Communicator 2.0 is support of analysis results from Moldflow Plastics Advisers® (MPA®) 8.1. MPA users can use Communicator files to report their simulation results to other members of a design-to-manufacturing team, regardless of whether or not they are Moldflow customers. Support for MPA results has the potential to significantly broaden the Communicator installed base with new users involved in the design of plastic parts or injection molds.

In addition, an updated user interface continues to provide intuitive navigation through Communicator functionality with the most frequently used features available at the click of a button. The interface will be as easy to use for non-Moldflow customers as it is familiar to existing Moldflow customers. New support for the Microsoft Windows Vista® operating system will help speed product adoption and 64-bit architecture support will allow for the efficient handling of large models.

Murali Annareddy, Director of Product Marketing at Moldflow Corporation, states: “Moldflow Communicator 1.0 and 1.1 have been extremely popular with Moldflow Plastics Insight® users and their extended development teams, with over 7,500 product downloads since its initial release. Now for the first time, our MPA customers can start realizing the same benefits of sharing dynamic analysis insight with clients, suppliers and design team members, all in an effort to make more informed decisions, reduce development times, improve part quality and speed time to market.”

### **Availability**

Moldflow Communicator 2.0 is free and available for download now to both Moldflow customers and non-customers. It runs on 32- and 64-bit hardware running Microsoft Windows Vista® and XP®. For more information, please call Moldflow in the USA at + 508-358-5848 or visit

<http://www.moldflow.com/communicator>.

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## ***New Accolade® Version 7.0 from Sopheon Enables Product Range Management and Technology Reuse***

23 April 2008

Sopheon introduced the latest version of its Accolade® product portfolio and innovation process management system. Accolade version 7.0 features a broad mix of capabilities designed to improve the efficiency and effectiveness of cross-functional product innovation planning and execution. New differentiators such as the solution's support for complex portfolio and product range management are expected to accelerate the adoption of Accolade by manufacturers in automotive, aerospace and defense markets. The company anticipates that they will also contribute to extending its penetration of targeted

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vertical markets within the consumer goods industry.

Many of the principal enhancements in Accolade 7.0 evolved from Sopheon's work with existing customers and are specially geared to supporting the product lifecycle requirements of manufacturers with multiple large, global portfolios of complex products. For instance, Sopheon's experience with companies such as General Motors and Electrolux contributed to capabilities in the new Accolade version that make product planning easier by enabling better investment decisions on variations of products.

Automobiles and consumer packaged goods are among the products that often have to be changed slightly to meet the unique competitive, regulatory and cultural requirements of individual regions around the world. A vacuum cleaner for the Chinese market, for example, might require different attributes than the same vacuum cleaner originally developed for the U.S. market. Such product variations can now be defined in Accolade, which graphically represents the relationship of a variant to the core innovation program or product platform with which it is associated. Business data on product components can similarly be modeled and linked. Besides simplifying the planning process, these capabilities will facilitate the reuse of components and technologies across product lines, contributing to cost savings and reductions in concept-to-delivery times. They will also help to synchronize marketing, engineering and manufacturing views of long-range product plans. Their overall impact will be to increase the revenues and profits generated from investments in core products.

"Electrolux's customer-driven approach to product innovation depends upon our being able to effectively define, develop and manage complex, regionally focused portfolios of technologies, products and product variants," said Johan Skåntorp, vice president, global product planning, Electrolux Floorcare & Small Appliances. "Prior to our adoption of Sopheon's Accolade system, we had searched unsuccessfully for a PLM solution that could support the layer of business information needed to make sound planning and product range management decisions. We encouraged Sopheon to develop the capabilities that are now being introduced in Accolade 7.0. We helped shape and test them, and for more than a year we have experienced their value. For manufacturers faced with the challenge of managing product innovation and technology reuse on a global scale, these capabilities are game-changing. For Electrolux, they are indispensable."

In addition to its range management capabilities, Accolade 7.0 introduces more than 40 distinctly new features. These enhancements include:

- More powerful process models that make it easier to extend the use of Accolade to other applications. Accolade process models can now be more easily developed for virtually any type of project or process portfolio, including technology and basic research projects. They can also be readily adapted to business process areas outside of product innovation such as Six Sigma, marketing campaigns, capital development, mergers and acquisitions, and IT projects. Multiple portfolios cannot only be examined separately, but collectively rolled up into a single portfolio view. Additional modeling features make it possible to capture and manage product-related intelligence, including information on patents, competitors, regulations and other business factors critical to effective portfolio decision-making.
- The capacity to define, visualize and analyze interrelationships among portfolio components. This set of new features is specially designed for organizations that want to do a more effective job of organizing and managing complex portfolios. Relationships among programs, projects, products and ideas are depicted graphically, allowing users to make assessments visually rather than by having to read detailed reports. Data from linked projects can be rolled up into program summaries. Navigation across projects is intuitive and efficient, saving time and contributing to thorough analysis.

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- Extended scalability, security and product forecasting features to support large, complex product portfolios and global process implementation. Scalability and performance enhancements available in Accolade 7.0 include the capacity to support up to 100,000 projects on a single server. Advanced security features allow refined levels of control over access to project information, providing added protection of intellectual property and ensuring safe collaboration. For international organizations, the solution's ability to automatically convert multiple currencies to support local and corporate reporting requirements will improve the efficiency and accuracy of global portfolio management, product forecasting and financial data management.
- Increased ease-of-use and ease-of-configuration. Accolade is already widely regarded as the gold standard for ease-of-use among PLM solutions. A variety of features being introduced in Accolade 7.0 raise this important differentiator to a new level. Among them are increased flexibility in the handling of gate decisions; the capacity to embed project documentation that resides in external repositories; reporting capabilities that support richer portfolio visualization; additional document alerts; and enhancements that make it easier to manage project, deliverable and activity data. Because version 7.0 is also very easy to configure, the processes it supports can be owned and managed by business end-users without dependency on the IT department.

One of the biggest potential impediments to successful product innovation is the internal silos that develop between functions and operating units, blocking communication and the information-sharing needed for effective decision-making. Many of the Accolade features new in version 7.0 are designed to tear down those barriers by automating the real-time transfer of critical decision data across organizational boundaries to the cross-functional groups responsible for product planning and execution. These features will also contribute to capturing and reusing lessons learned, and ensure that intellectual property is leveraged across geographies.

"This is the most extensive and most significant Sopheon product release since our introduction of the first version of Accolade seven years ago," said Bryan Seyfarth, solutions marketing director for Sopheon. "One of the historic criticisms of PLM software in general is that it has not done enough to support enterprise-wide, cross-functional product planning. The argument is that, in order to be effective, PLM must move beyond product data management and collaborative design to provide a way to address the core business issues of product innovation. Accolade 7.0 fills that void. It captures, organizes and delivers the business information companies need to set strategic product initiatives in motion and inform the planning and portfolio decisions that will lead to financial success. With the release of version 7.0, Accolade truly stands alone as the business layer for the product innovation process."

Accolade version 7.0 is available immediately for purchase and implementation.

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## ***Over 120 Oracle Accelerate Solutions Now Available From Oracle Partners***

22 April 2008

Momentum continues for Oracle Accelerate as Oracle announced 33 new Oracle Accelerate partner solutions, bringing the total number of available solutions to 123. Certified and Certified Advantage Partners in the Oracle® PartnerNetwork are now delivering Oracle Accelerate solutions in 18 countries, including newly added Brazil, Czech Republic, Hong Kong, Mexico, Netherlands, Sweden, Switzerland, and across 18 industries and 42 industry sub-segments.

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-- Oracle Accelerate partners are now delivering solutions across new industries including healthcare and oil and gas and new industry sub-segments including chemicals, consumables, downstream (oil and gas), electronics contract manufacturing, hard goods, and logistics.

-- As midsize manufacturers are realizing that having industry-specific Product Lifecycle Management (PLM) capabilities is critical to getting cost-effective, quality products to market quickly, GoEngineer, Inc. is the first partner to launch Oracle Accelerate solutions based on Oracle's Agile PLM.

-- Oracle partners are delivering Oracle Accelerate solutions that provide the right combination of world-class applications, rapid implementation methodologies, and industry best practices needed to achieve the high-quality deployments.

## Rapid, Cost-Effective Implementations for Midsize Organizations

-- Oracle Accelerate solutions provide midsize organizations with pre-packaged application bundles that offer a wide range of industry-specific functionality and allow for rapid and affordable best-practice implementations. Oracle Accelerate solutions are delivered by partners who have a history of delivering solutions to a customer's specific industry and geography.

-- Customers can have confidence that their Oracle Accelerate solution offers a high quality, complete solution that is easy to implement and allows them to stay on the upgrade path -- two critical factors for achieving a return on their investment.

-- Today, Oracle partners are launching Oracle Accelerate solutions across multiple industries including automotive, chemicals, consumer goods, healthcare, high-tech, industrial manufacturing, life sciences, oil and gas, professional services, retail and travel and transportation.

-- With this announcement, the following partners have announced their own Oracle Accelerate solutions in their regions and across their respective industries: Alfa Sistemi, BSC Praha, Bluestar, CA, Centric - InOne Central Europe GmbH, DCS, DSS, E-nnovative Solutions, Evosoft Business Relations GmbH, Fujitsu Korea, Ltd, GoEngineer, Inc., IBM, Jardine oneSolution, Jibe Consulting, Kynergy, Ndevr, Oakton, PeopleNow Software, pharmaSol, Quistor, Steltix Nederlands BV, StepWise, Systime, Triniti, and Walar.

## Supporting Quotes

-- "Today, Product Lifecycle Management (PLM) solutions are widely understood to create critical competitive advantages for manufacturers of all sizes. Historically these solutions have been expensive and time-consuming to implement, thereby making them impractical for midsize manufacturers with limited budgets," said GoEngineer, Inc. Vice President, PLM Division, Greg Katai. "Our Oracle Accelerate solutions, based on Oracle's Agile PLM and GoEngineer's efficient and cost-effective Jumpstart™ Methodology, allow midsize manufacturers in the high-tech, industrial manufacturing and life sciences industries to benefit from Oracle's world-class PLM capabilities, enabling them to stay ahead of their larger competitors."

-- "Oracle Accelerate simplifies and speeds deployments, which help reduce cost and risk and helps to make Oracle solutions easier for midsize companies to consume," said Ovum Research Director Warren Wilson.

-- "Since August 2007, we've been focused on helping our partners leverage Oracle Accelerate to grow their businesses in the industries and regions where they have expertise. Our hard work and collaboration are paying off as we achieve this milestone of over 120 total Oracle Accelerate partner

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solutions," said Tony Kender, Oracle Senior Vice President, Global Accelerate Program Office. "With Oracle Accelerate, partners continue to see measurable results by providing high-quality solutions to midsize companies who need to deploy affordable solutions quickly."

## Related Articles

Bigger Isn't Always Better

<http://tinyurl.com/6nk96w>

Powering New Growth

<http://tinyurl.com/4lqlsn>

Doing More with Less

<http://tinyurl.com/4680ou>

## Podcasts, Webcasts and Videos

Customer Success Stories

<http://tinyurl.com/3zn5fx>

Flash Demo: Oracle Accelerate

<http://tinyurl.com/44ngc5>

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## **SAP Helps Life Sciences Companies Mitigate Risk and Achieve Compliance With “Perfect Plant” Center of Excellence**

23 April 2008

SAP AG unveiled the “Perfect Plant” center of excellence (COE) for the life sciences industry. Representing the collaborative efforts of SAP, Tata Consultancy Services (TCS) and Werum, the “Perfect Plant” COE provides a virtual view of a life sciences plant floor environment and lets users “test drive” end-to-end, real-world manufacturing business processes through SAP solutions and partner composite applications. Via role-specific user dashboards, manufacturers can visualize performance outcomes. The technology helps life sciences manufacturers to lower risk and accelerate time-to-value, increase product quality, reduce waste, and lower rework and product recalls.

“Under increasing pressure to reduce the cost of operations, manufacturers in the life sciences industry need real-time synchronization of manufacturing processes and business processes to improve performance,” said Greg Gorbach, vice president of Manufacturing Research, ARC Advisory Group. “The manufacturing scenarios co-innovated by SAP and its ecosystem, using solutions from SAP and its partners and conveyed through the ‘Perfect Plant’ center of excellence, effectively showcase the value of bridging the plant-to-enterprise chasm. By exploring complex scenarios or business process templates that involve multiple roles, domains and applications, manufacturers can easily see how their own business could be improved with this technology.”

The “Perfect Plant” COE aims to help life sciences companies experience how a common business process platform can help manage key industry-wide business scenarios in order to consistently deliver quality products in compliance with industry regulations, while lowering total cost of operations. Leveraging SAP applications such as SAP® ERP, SAP® Manufacturing Integration and Intelligence

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(SAP MII) and the SAP NetWeaver® technology platform, coupled with deep industry-specific partner solutions for manufacturing execution, the “Perfect Plant” COE allows customers to “test drive” real-world business processes via role-specific user dashboards to visualize business outcomes. For example:

- A vice president of manufacturing or operations can achieve a multi-site operational view to assess how well one plant is running vis-à-vis another in terms of people, processes and resources to monitor, measure and improve operational performance.
- Plant managers have a plant-wide view of system performance and resource utilization to ensure they are meeting key performance indicators (KPI), sense and respond to exceptions when they happen and enable continuous improvement of assets, processes and people.
- Production supervisors can better monitor the state of the equipment deployed as well as the quality of each batch produced, to ensure each production run produces a perfect batch.

## Collaborating with Partners for Customer Success

The “Perfect Plant” COE offers customers a “real-world view” of how the SAP for Life Sciences solution portfolio works in association with robust partner solutions delivered by Werum and services by TCS to address pain points, increase efficiencies and deliver business impact. For example, combining the power of the SAP for Life Sciences portfolio of manufacturing applications with Werum’s pharmaceutical-specific plant floor production solution enables a seamless, end-to-end, shop floor-to-enterprise business process, delivering tighter integration between planning and execution, as well as an enhanced view into all plant operations. The result is a cost-effective, efficient and coordinated “sense and response” approach to customer demands.

“TCS, with its significant expertise in delivering SAP solutions and domain knowledge in pharmaceutical manufacturing, is delighted to partner with SAP and solutions providers such as Werum to deliver solutions for compliant manufacturing operational excellence to our life sciences customers,” said Ashtad Engineer, global head, SAP Adaptive Enterprise Solutions, Tata Consultancy Services (TCS). “These end-to-end, service-enabled, plant-to-enterprise scenarios truly demonstrate operational excellence for multiple roles in a manufacturing context, delivered by SAP and partners such as Werum on a common platform and at a potentially lower risk of adoption for our industry-leading customers in the life sciences industry.”

As part of its ongoing mission to drive co-innovation, minimize the risk of adopting new technologies and provide enhanced value to customers across all industries, SAP will follow the development of the life sciences “Perfect Plant” COE with the creation of similar center of excellence environments for the chemicals, mill products, high-tech and industrial machinery and components industries.

“Life sciences manufacturers around the world face myriad challenges throughout the manufacturing lifecycle, from product consistency to compliance and meeting demand on a global scale,” said Jim Sabogal, vice president and head of Life Sciences Industry Business Unit, SAP AG. “With the ‘Perfect Plant’ center of excellence, we are providing a forum for some of the leading minds in technology to work together to address these challenges. With a majority of the world’s leading life sciences manufacturers running SAP solutions, we aspire to leverage our domain expertise in manufacturing and those of our ecosystem of partners to deliver solutions that provide real value to the life sciences industry.”

## Next Major Events

SAPPHIRE® 2008 Orlando and SAPPHIRE® 2008 Berlin More than 15,000 customers, partners and

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technical experts are convening at SAPPHIRE 2008 to discover how SAP and its partner ecosystem are delivering IT solutions that create value beyond the four walls of the enterprise, to create “business beyond boundaries.” SAP’s educational and networking event, SAPPHIRE is the one occasion where senior executives, business managers, and decision-makers can come together every year to explore how innovative business solutions foster long-term, profitable growth. SAPPHIRE® 2008 is being held in Orlando, Florida, May 4-7, and in Berlin, Germany, May 19-21, 2008. For more information, please visit <http://www.sap.com/sapphire>.

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## ***TraceParts Announces Strategic Partnership with CAD.de Portal***

21 April 2008

[TraceParts](#) announced its strategic partnership with CAD.de.

The partnership allows component manufacturers to make their 3D product catalogues downloadable directly on CAD.de, in addition to the many already existing partners’ portals. With 81,000 users, the CAD.de community is the largest and most active community for CAD-CAM-CAE and EDM/PDM/PLM in the German-speaking region.

"TraceParts CAD.de edition, i.e. 3D standards and manufacturers' catalogs available as free downloads, fit extremely well to the portal's current service offering. This 3D service now seamlessly complements the CAD.de network", says Albert Ranig, Managing Director of CAD.de.

"The integration on CAD.de provides an additional distribution channel among design and mechanical engineers for our client's 3D standard parts and product data ", states Christian Baumgärtner, Managing Director of TraceParts GmbH.

### **About CAD.de**

Online since May 2000, CAD.de has grown to become the largest CAD-CAM-CAE community in the German-speaking region with a current active member base of 81,000 and more than 2.2 million unique visits per month. One of the most active areas is the more than 500 CAx product forums with over 1.4 million contributions. The forums are divided into the following product areas: AEC, CAD, CAE, CAM, CIM, EDM/PDM/PLM, FEM and NC/CNC. At this time over 170 forums are administered by highly-competent moderators. CAD.de is built on the principle of "Give and take", which ensures a wide spectrum of opinions and guarantees CAD.de's independence. Moreover, CAD.de is the center of a network which consists of a series of unofficial help pages for individual products, and which continues on the Internet pages of important providers and manufacturers through the use of the CAD.de forums.

More information is available at: <http://www.cad.de>

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## ***TSMC Unveils New 40/65-Nanometer SPICE Tool Qualification Program***

22 April 2008

Taiwan Semiconductor Manufacturing Company, Ltd. unveiled at its opening 2008 Technology Symposium a comprehensive SPICE Tool Qualification Program that drives its Design Service ecosystem partners to develop SPICE simulators with greater accuracy and higher performance.

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Targeting TSMC's 65-, 40-nanometer (nm) and smaller geometry process technologies, the program's benefits include improved device model accuracy, enhanced simulation efficiency, and compatibility across a wide selection of qualified SPICE simulators. The program also improves simulation accuracy, shortens transistor-level simulation cycle time, increases simulation capacity, and ultimately enables faster time-to-market and first time silicon success.

To address emerging nanometer effects associated with the 40nm technology and beyond, the company is introducing iSDK, interoperable SPICE Design Kit, together with the TSMC's Model Interface (TMI), a new device modeling innovation and simulation performance improvement. Written in standard C language, iSDK with TMI is a new method for compact SPICE device modeling that is an addition to the traditional, and slower macro modeling approach. TSMC will provide iSDK through a common compiled shared library that will link directly to a vendors' SPICE simulators.

Once the SPICE simulator passes SPICE tool qualification TSMC will post a qualification report on TSMC-Online, the company's customer only portal. Multiple EDA partners are already participating in the program including Agilent Technologies, Berkeley Design Automation, Cadence, Magma, Mentor, Simucad, and Synopsys.

"TSMC is the first foundry to deliver on the commitment of providing more design accuracy by proactively working with multiple EDA vendors to create and qualify interoperability between SPICE simulation technologies and the foundry's most advanced processes technologies," said S.T. Juang, senior director, Design Infrastructure Marketing at TSMC.

"Going beyond the traditional tool qualification program, TSMC's Modeling Interface architecture sets a new standard in SPICE modeling accuracy and simulation efficiency. The program provides designers the ability to select qualified SPICE simulators to match their design needs, improve compliance with TSMC processes, and ensure design accuracy for first time silicon success," he explained.

## About TSMC Active Accuracy Assurance Initiative

The [TSMC](#) AAA initiative is a broad-based program that encompasses all components of the design ecosystem. It provides standards of accuracy to all TSMC partners, including EDA tool suppliers, IP providers, library developers, and Design Center Alliance (DCA) partners. TSMC applies the same standards to tools, building blocks, and technologies, including TSMC Reference Flow 8.0, design for manufacturing (DFM) tools, process design kits (PDK), design support and backend services.

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## ***Visiprise Enhances its Shop Floor Integration Solution for Manufacturers***

23 April 2008

[Visiprise, Inc.](#) announced the general availability of Visiprise ERP Shop Floor Integration 2.0. A packaged composite application for use with the SAP® Manufacturing Integration and Intelligence (SAP MII) application, Visiprise ERP Shop Floor Integration 2.0 integrates the SAP ERP application with the SAP Manufacturing Execution by Visiprise application to provide manufacturers in the complex, discrete manufacturing industries with a complete record of how their products were manufactured, from planning to execution.

Visiprise ERP Shop Floor Integration provides the two-way information channel to integrate and synchronize the enterprise and shop floor activities:

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For executives - Provides needed real-time visibility into cost, labor and material inventory for better operational decision-making

For shop floor personnel - Gives access to up-to-date design and production data that allows them to respond to changes more efficiently to reduce scrap, rework and other bottlenecks caused by traditional manual inefficiencies

Building upon functionality already developed for version 1.0 and integration certified by SAP, Visiprise ERP Shop Floor Integration 2.0 now includes repetitive manufacturing capabilities along with other new features, giving discrete manufacturers a competitive edge in the marketplace. Version 2.0 includes, in part, the following:

**Planned order integration** – Planned orders in SAP ERP are now integrated into SAP Manufacturing Execution by Visiprise, with execution against the orders reported back to SAP ERP to provide full support for repetitive manufacturing

**Batch confirmation** – Utilizes batch management on finished good materials within SAP ERP and assigns appropriate Batch ID to shop orders in SAP Manufacturing Execution, creating uninterrupted connection from component traceability through logistics

**Batch traceability reporting** – provides detailed component, assembly and delivery information – extremely valuable to Automotive, A&D and Hi-Tech manufacturers during any component recall exercise

**Multiple integration landscapes** – Through SAP MII, supports single-to-single, single-to-multi, multi-single, and multi-multi integration between SAP ERP and SAP Manufacturing Execution for transparency of data between enterprise and shop floor

“Manufacturers achieving best-in-class results across their operations do so with an integrated MES and ERP solution that provides complete quality and manufacturing control,” said Carter Johnson, senior vice president of corporate development, Visiprise. “Our latest offering, coupled with our ongoing partnership with SAP, allows us to deliver a premium integrated solution to our discrete manufacturing customer that furthers them towards operational excellence.”

Going beyond “SAP xApp Certified – Powered by SAP NetWeaver®” status achieved for the previous version of Visiprise ERP Shop Floor Integration, version 2.0 has also achieved SAP Certified Integration status and passed SAP Premium Qualification, including entire cross-application landscape testing performed by SAP at its corporate headquarters, to become one of the only integration solution extension offerings for MES and SAP solutions available in the market today.

“In Visiprise ERP Shop Floor Integration, Visiprise has developed, from design to final testing, a comprehensive shop floor integration package that is an essential component complementing SAP’s efforts aimed at helping manufacturing customers achieve the ‘perfect plant’,” said Frank Schuler, vice president, Solution Management Manufacturing, SAP. “Visiprise ERP Shop Floor Integration leverages SAP MII for rapid implementation and lower total cost of ownership for our customers. Version 2.0 allows us to extend this solution to manufacturers looking to support their repetitive manufacturing needs.”

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