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## CIMdata News

### *Leveraging After-Sales Service for Competitive Advantage*

1 October 2008

By Ed Miller, published in [Manufacturing Business Technology](#)

Improvements in reliability, maintainability, safety, and maintenance can be initiated by service personnel based on their experience with the products in actual use.

PLM is a foundation for Maintenance and Repair Operations (MRO) solutions that enable companies to provide support centers for maintaining and updating product documentation; maintenance manuals, records, and histories; and as-built through as-maintained configurations for products and systems of multiple companies. Such shared or outsourced logistics and maintenance services reduce maintenance costs by sharing both infrastructure and inventory costs across a larger customer base.

Managing warranty programs to control costs and improve service response is prompting companies to

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more fully integrate these activities within an overall PLM environment. Information concerning how a product and its components may be disposed when they reach the end of useful life also can be maintained within the PLM environment.

In this way, after-sales service is an important element in the broadening umbrella of PLM, and an integral part of the product definition life cycle, utilizing current information for maximum efficiency and effectively providing knowledge regarding customer requirements and serviceability for new products. Undoubtedly, such PLM initiatives will take on ever greater significance as a growing number of companies recognize that, in terms of competitive differentiation, they may live or die depending on how effectively they perform after-sales services. PLM can be the key that enables them to do so effectively.

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Ed Miller is president of [CIMdata Inc.](#) (1-734-668-9922), an independent worldwide firm providing strategic consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of PLM strategies. CIMdata works with both industrial organizations and suppliers of PLM-related technologies and services. The company conducts research, provides subscription services, produces commercial publications, and offers industry education.

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## ***MSC's Growing CAE Technological Base (CIMdata Commentary)***

4 November 2008

Over the past several years, MSC has been building market awareness around their solutions that are targeted at product development enterprises. These have stressed the role of simulation data management in expanding analysis and simulation beyond their traditional user base of analyst specialists and engineers. We have heard some people in the user community wondering if MSC is losing sight of their deep roots in developing new and compelling technologies and solutions that support the day-to-day needs of analysts and engineers to deeply evaluate and simulate new products. It is CIMdata's opinion that this has not been the case at all and we will provide some of the reasons that we believe support this conclusion.

A very good example of building out the technology is MSC MD (multi-discipline), a solver framework that has been developed, and continues to be refined, to support multi-disciplinary, coupled analysis and simulation. It builds on the core elements of CAE codes including Nastran, Dytran, Marc, Adams, and Easy5 with pre- and post-processing from Patran. MD is targeted at people who need to evaluate systems that have dynamic and static structures combined with thermal conditions and motion. Thus, it provides a natural path from traditional single discipline engineering simulation to multi-discipline system level simulation. The development of MD is a major step for MSC in providing organizations with the tools they need to apply full system simulation to the very complex products that customers are demanding today, improving design speed and accuracy.

Another prime example of enhancements to tried and true techniques is the continued enhancement of core FEM solvers such as Nastran. MSC reports that more than 1,000 enhancements have been made to their collection of solvers during the past year.

Beyond changes in software, development of support for high-performance computing has enhanced both serial and parallel computing methods to greatly improve the speed of analyses such as those

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provided in MD. MSC claims important speed enhancements of over 80 percent when compared to the early versions of MD. This work continues apace, allowing specialists and engineers to do more simulations as well as more complex simulations.

MSC also has a strong acquisition and partnership program in place to augment its internal development efforts. The acquisition of Sinda in 2008 has added an advanced set of thermal analysis tools as well as a team with 25 years of thermal analysis experience that can continue to maintain and enhance these tools. The Sinda tools are being integrated into MSC's suite to enhance the value of its thermal-structural coupled simulations.

VISTAGY is a recent example where MSC has teamed with a third party to add very specialized functionality to support and improve the iterative composites design and analysis process. This partnership should allow MSC to expand its offering of new techniques without taking resources away from developing and supporting its existing suite of products.

MSC has a large and capable development organization that includes subject matter experts in a multitude of engineering analysis and simulation areas. These important developments are being undertaken with a full understanding of modern product engineering concepts and how these can be simulated in the virtual environment. This is not the work of a few grey-haired Fortran programmers stuck in a windowless closet and fed on gallons of coffee. The MSC team is highly experienced and has diverse technical talents. It is our opinion that this team continues to grow, with resources being added as knowledge of new methods is acquired—through acquisitions, partnerships, and new hiring. Thus, we believe that MSC is able to mount new product development efforts while continuing to maintain the existing technologies upon which their customers rely.

## About CIMdata

CIMdata, an independent worldwide firm, provides strategic consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM). CIMdata provides world-class knowledge, expertise, and best-practice methods on PLM. CIMdata also offers research, subscription services, publications, and education through international conferences. Visit <http://www.CIMdata.com> for more information.

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## ***Selerant's DevEX: Delivering on the Promise (CIMdata Commentary)***

5 November 2008

For more than 25 years CIMdata has reported on the product lifecycle management (PLM) industry. For most of this time, the primary focus of the “mindshare leading” PLM solution suppliers that make up the majority of the market has been targeted toward large discrete manufacturers. Much of this has been due to the historical roots of most of the major PLM solution suppliers, which encompasses various discrete product development activities, especially mechanically-oriented computer-aided design tasks, bill of material creation and management, engineering release and change control, and related activities. This history has resulted in a well-educated set of PLM solution suppliers and industrial organizations, many of whom are still predominantly mechanically- or electromechanically-oriented. Currently, we're seeing a growing focus on many non-discrete industries (e.g., food and beverage, consumer packaged goods, petrochemical, specialty chemical, etc.) where specifications are the foundation upon which the product lifecycle operates—not bills of material. For Selerant and other specification-centric PLM solution suppliers, this is not a new thing, but one that has been gaining significant momentum in recent years.

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For Selerant, which was founded in 1990, the development and delivery of PLM solutions targeted at consumer packaged goods (CPG) formula-based manufacturing companies is core to their business. DevEX, Selerant's PLM platform, is their solution in support of the needs of these specification-centric industries. Selerant's time in the market has allowed them to gain a solid understanding that these companies require PLM solutions that can support their need to develop not only products, but also long-term brand recognition. In order to be successful in the CPG market, solution suppliers like Selerant will need to understand and recognize that product development and market development cannot be separate, independent activities within a CPG company for it to be successful. They also need to understand and their solutions need to support a CPG company's need to innovate its products while at the same time validating it against market requirements.

DevEX 2.0 is Selerant's most recent release of its PLM platform. Developed on Microsoft's .NET Framework 3.5, Selerant reports that this newest release should provide DevEX users a much richer experience, with significantly improved response time and user interface usability. DevEX 2.0 also takes advantage of Microsoft's SharePoint technology. This enables DevEX users to upload and download, and archive documents for a greater level of version control than previously provided. CIMdata is happy to see that Selerant is taking advantage of the major components of Microsoft's information technology stack. This should allow Selerant to continue to focus on enhancing DevEX's core formula and other specification specific enabling functionality and leave IT component functionality to Microsoft.

Some other noteworthy DevEX 2.0 developments are as follows:

- DevEX now offers a new claims sub-system, an entirely new tool. It has been designed to enable product developers to work collaboratively with marketing to ensure that the target marketing and/or product claims (e.g., low fat, low in salt, etc.) and be delivered to the targeted consumers, and in turn these claims can be validated from a regulatory requirements perspective.
- DevEX now ships with a significant number of specification templates. Selerant views specifications as a preferred way to organize complex sets of information related to a product's content (i.e., its formula) and its packaging. These templates, with their design in best practices, allow companies to get up and running quickly. Additionally, DevEX allows these templates and existing specifications to be copied and altered as required.
- DevEX's multi-formula view functionality allows developers to review a newly-recalculated formula and compare it to the original formula as well as other formulas managed by the system. In addition, this functionality allows developers to contrast multiple constraints, such as fat, sugar, costs, and allergens. Finally, developers can switch between the multi-formula view and single formula view as they look to further optimize a given formula.
- DevEX's new Recipe Stage Visualization tool allows users to visualize an entire recipe and drill down in a specific stage to understand individual steps and formula composition. This functionality appears to be very promising. In many ways, it represents how digital manufacturing supporting technologies can be utilized by specification-centric development organizations.

For many years, CIMdata has stated that it was just a matter of time before a discrete manufacturer would implement PLM enabling technologies. However, for some time now it hasn't been matter of when, but rather how fast. Now for food and beverage, consumer packaged goods, petrochemical, specialty chemical, and other specification-centric companies, it is also no longer a matter of when, but how fast. PLM is no longer an option, but a necessity. Selerant is an excellent example of the type of specification-centric solutions that exist on the market today. Selerant's long history in developing

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specification-centric and formula management functionality is impressive as is their list of clients. In today's world of highly-configurable and complex products that must adhere to ever changing regulations, the old way of using office automation tools to manage the product lifecycle is no longer viable—to do so will ultimately place a company on a non-successful path.

## About CIMdata

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## *New CIMdata Opinion Poll on your PLM Hosting Environment*

November 2008

CIMdata has posted an opinion poll for November. It is a brief one that deals with your PLM hosting environment: its primary hardware platform, length of time it has been in place, and your upgrading plans and priority. Take a moment now to vote [here](#).

The results of these polls are tabulated as you vote. The results are completely anonymous.

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

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## Company News

### *Animech Technologies AB Adds Sales Specialist Mark Schneider to Spearhead the Companies' International Plans for Expansion in Central Europe*

November 2008

Animech Technologies AB, a global vendor of solutions for visual product communication and information logistics has signed sales specialist Mark Schneider a former sales manager and consultant, to join Animech Technologies' as "International Key Account Manager" for the Central European Market.

Mark has worked both with projects and resellers. His experience includes the Engineering, Automotive, Medical device, IT, Consumer Electronic and Surveillance Electronic industry.

Animech Technologies' solutions enable companies to streamline visual product communications and speed product time to market, reduce operational and maintenance costs and increase revenues. Companies use our solutions to improve after market and increase sales by utilizing existing 3D CAD data.

The company's customers are drawn from a wide variety of industries, including customers such as General Electric, Solvay, Munters, Alfa Laval, Volvo, Sandvik and smaller customers such as Radi Medical, IMO Pump, Doxa and Oncolog Medical. Read more about their solutions at

<http://www.animechtechnologies.com/>

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## ***Autodesk Announces Incheon, Korea as Second City of its Digital Cities Initiative***

4 November 2008

[Autodesk](#) announced it is working with the Incheon Free Economic Zone (IFEZ) and the Incheon Urban Development Corporation (IUDC) to cooperate in the creation of Asia's first Digital City for Incheon, Korea -- the 'Tomorrow City' in Song-do City. Autodesk has designated Incheon as the second pilot city of its Digital City initiative, after announcing Salzburg, Austria in July.

Autodesk, IFEZ, and IUDC will work together to develop a Digital City -- a collaborative environment created around a detailed 3D city model that allows users from the public, city government, construction and business communities to leverage technology solutions so they can visualize, analyze and simulate real-world city scenarios to improve decision making and provide a common environment for sharing information. The objective of today's announcement is to help the Tomorrow City research a state-of-the-art city management system.

Another goal of this pilot program is for Incheon to be able to bring together 3D models of above and below ground features in an open technology platform that supports the secure and integration of CAD, building information modeling (BIM), geospatial, civil engineering, and infrastructure data over a wide geographic area. By combining that data with Autodesk's realistic visualization and simulation tools, the city of Incheon would deliver an intuitive and compelling way for its citizens to experience and understand the design and management of a city's construction, environment and traffic.

The IFEZ and the IUDC will collaborate with Autodesk to explore the full potential of U-GIS (ubiquitous GIS), possibly one of the most advanced applications of ubiquitous technology in the world. At the same time, the parties expect that the Digital City project will help promote Incheon City as a leading 'u-city' (a city of ubiquitous information technology). The Korean government's u-cities initiative aims to establish a repeatable way to plan, build, and manage large urban development projects that incorporate innovative technology and design. Incheon City can serve as a future model for subsequent urban development programs in Korea and abroad.

"Partnering with Autodesk will help us realize our vision to build a Digital City and transform Incheon into an international business hub of the Northeast Asian region -- that will lead in education, finance, commerce and retail," said Lee Heon-Seok, CEO of IFEZ. "Autodesk's technology will also help us in our planning and hosting of important upcoming events, such as the 2009 World City Expo and the 2014 Asian Games. All in all, the Autodesk Digital Cities initiative will help make our ambitious dream come true."

Autodesk and the IUDC have worked together for many years, and Autodesk's acknowledged expertise and credibility in engineering, data sets and visualization technologies will provide Incheon with an in-depth understanding of how to visualize design at a city-wide scale.

Kim Dong-Kee, president of IUDC said, "As 3D modeling technology will be implemented from planning to construction phase, the Digital City project makes it not only possible to save costs but also to develop high-quality city development."

"We are pleased to work with two leading agencies in Korea -- IFEZ and the IUDC -- on this groundbreaking project to help Incheon become a world-class city," said Nahm Ki-Hwan, CEO of Autodesk Korea.

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"Our Digital City technology can help the city and communities of Incheon to communicate, collaborate, and deliver projects in a more effective -- and sustainable -- way," said Lisa Campbell, vice president, Autodesk Geospatial. "Today's announcement builds on the work we are doing with our first pilot city, Salzburg, to create a business tool that will help cities plan and operate sustainable development essential for tomorrow's high-performance cities and economies."

## Song-Do as the Pilot Project

For the initial phase of the Digital City initiative, "Tomorrow City (T-City)" -- a 100-billion-KRW-invested mini city, located in New Song-do City, off the coast of Incheon, has been selected as the pilot project.

Scheduled to be opened in August 2009, "T-City" is a six-story, mini u-city urban development project (with the total plot area of 31,697 square miles) that will feature diverse, futuristic u-services, including u-traffic and u-shopping. In this pilot program, the IFEZ will examine every potential benefit of the new 3D city management system, which will cover the whole process of the city development project ranging from design, construction, and operation to maintenance of the city after the construction.

## Benefits of the Digital City

As the 3D city modeling can be used to make better informed decisions based on real data, the IFEZ will be able to communicate those decisions and options to a wide range of stakeholders. Moreover, the city government can minimize impact of the development projects over millions of its citizens and provide better administrative services to them, as the collaborative environment created around a detailed 3D model can allow IFEZ to simulate and understand the impact of plans and proposals throughout the planning and development process.

## About IFEZ

The Incheon Free Economic Zone (IFEZ) consists of three different Incheon City districts with a total of 51,739 acres: Songdo, Yeongjong and Cheongna. Its goal is to transform these areas into the logistics, international business and leisure and tourism hub of the Northeast Asian region.

The term "Free Economic Zone" (FEZ) refers to a geographic area designed by the Government of Korea to create a globally competitive business and living environment that will attract foreign investment and international companies. IFEZ was established as Korea's first FEZ in August 2003. The Government of Korea fully supports free international business and the standards of corporate management demanded by today's global market.

## About IUDC

The IUDC is a public corporation established by the Incheon metropolitan city government in 2003. The IUDC facilitates development in the region by engaging in various construction projects including land development, residential apartment complex construction, tourist complex construction, and urban town redevelopment. For more information on the IUDC, visit <http://www.iudc.co.kr>

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## ***Cadence Announces Restructuring Program***

5 November 2008

Cadence Design Systems, Inc. announced the commencement of a restructuring program designed to

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focus the company's strategy, streamline the business and improve operational execution and financial performance. Upon completion of the restructuring, the company expects to achieve annual operating expense savings of at least \$150 million through a combination of workforce and other expense reductions.

The company expects to eliminate at least 625 full-time positions, representing 12% of its global employee base, plus a substantial number of contractors and consultants. Because of varying regulations in the jurisdictions and countries in which [Cadence](#) operates, workforce reductions will be realized over a period of time and are expected to be completed in the second half of fiscal 2009. Cadence expects to record a restructuring charge of approximately \$65 million to \$70 million pre-tax, \$48 million of which will be recorded in the third quarter of 2008.

"The actions that we are announcing today will enable Cadence to become a stronger and more focused company," said Lip-Bu Tan, interim vice chairman and member of the Interim Office of the Chief Executive. "The decision to streamline our workforce was made with the utmost care and respect for the hard-working and talented Cadence employees. We believe that with this restructuring we are acting in the best interests of our company and our shareholders."

"In creating the restructuring plan, we emphasized those market segments where Cadence enjoys a leadership position, such as mixed-signal design, advanced verification, and low-power design," said Charlie Huang, senior vice president, member and chief of staff of the Interim Office of the Chief Executive. "Going forward, we will focus on excelling in our core business areas, and continuing to serve the needs of our semiconductor and electronic systems design customers as they innovate to create the next generation of electronic devices."

"We are taking decisive action to improve our operational execution and financial performance," said Kevin S. Palatnik, senior vice president, chief financial officer and member of the Interim Office of the Chief Executive. "The focus we are placing on efficiency and productivity, and the resulting restructuring actions, reflect our absolute commitment to improve operating performance."

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## ***EVE, Concept Engineering Sign Partnership Agreement***

30 October 2008

EVE and Concept Engineering announced that they have signed a long-term, worldwide partnership agreement.

Under terms of the agreement, Concept Engineering will offer a free, time-limited usage license of its graphical viewing software to design teams employing EVE's emulation platforms.

The agreement includes plans for EVE and Concept Engineering to further integrate their tools. Eventually, when design teams purchase EVE's ZeBu (for Zero Bugs) fast, state-of-the-art emulation platform, it will come equipped with a graphical front end from Concept Engineering that includes RTLvision® PRO and GateVision® PRO. RTLvision PRO gives engineers a way to quickly visualize register transfer level (RTL) code fragments to better understand design behavior. GateVision PRO is a gate-level debugger for system on chip (SoC) designers and allows easy implementation of customer-specific debugging functions.

"Concept Engineering has built a reputation for developing easy-to-use, high-performance software that reduces the complexity of the debugging process," says Dr. Luc Burgun, EVE's chief executive officer

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(CEO) and president. “We’re delighted to offer design teams using ZeBu a novel way to tackle tough design problems through our partnership with [Concept Engineering](#).”

“[EVE](#) has emerged as an emulation leader and a bright star within EDA,” remarks Gerhard Angst, Concept Engineering’s president and CEO. “We are very proud to work with EVE and its customers.”

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## ***New Sales Director for Sescoi in the USA***

3 November 2008

CAM/CAD and manufacturing ERP specialist Sescoi announced the appointment of Tim Bell as the Sales Director for Sescoi Inc., the company’s North American subsidiary, which is based in Southfield, Michigan.

With over 18 years of experience within Tier 1 suppliers to the automotive industry, Tim has had profit and loss responsibility for the \$200 million contract manufacturing division of a major supplier of molded and stamped assemblies and has been responsible for many major strategic planning, marketing and product development projects in this sector.

Tim’s appointment coincides with the launch in the U.S. of WorkXPlore 3D, Sescoi’s new high-speed collaborative 3D Viewer. He said, “This new software enables Sescoi to offer a solution which will provide significant advantages in product development and manufacturing in all sizes of company across a broad range of industries.” By combining this new capability with the company’s core competencies in CAM/CAD with WorkNC, and ERP with its WorkPLAN products, Sescoi is now able to offer a suite of systems that will address its customers’ total productivity requirements.

Tim intends to demonstrate to customers how they can improve productivity by taking advantage of Sescoi’s update and advanced software training options and consultancies services.

Tim Bell added, “The range and capability of the latest software will ensure that our customers remain profitable and always at the leading edge. The continuous advances in the breadth and depth of our software solutions will allow us to expand our influence in our existing market and also diversify into different sectors.”

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## ***New TransMagic Website Offers Valuable CAD Interoperability Resources***

6 November 2008

TransMagic, Inc. announced the launch of its new website. The website provides a unique customer portal with easy access to in-depth information about TransMagic software products and repurposing 3D design data. Visit the website at <http://www.transmagic.com>.

“Enhancing the customer experience and quick access to data exchange information were primary goals in designing the new website,” said Ken Feitz, TransMagic Marketing Manager. “Considerable thought went into the look, organization and content of the website. It will expand TransMagic’s customer support and provide a valuable resource to anyone involved with 3D data exchange.”

Current TransMagic customers will find the website provides quick access to on-line tutorials, product updates and support. Anyone dealing with 3D data exchange will find valuable information to help

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repurpose 3D design data. Some of the new website features include:

- Ability to submit files directly to customer support through website
- In-depth product support and training sections with video tutorials
- TransMagic product knowledge base and advanced product tutorials
- Detailed data exchange information, tables, charts and best-practice articles
- Easy access to current software and updates

TransMagic data exchange software products reduce the costs of repurposing CAD designs in manufacturing applications. See a TransMagic demonstration this week at the SEMA show in Las Vegas or visit our new website, <http://www.transmagic.com>, for a free trial.

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## ***RAND Worldwide Launches 2009 LIVE Learning Series Schedule for CATIA V5 R19***

6 November 2008

RAND Worldwide announced that its Technical Training division launched the 2009 schedule for its weekly eLearning sessions known as the “Live Learning Series.” In addition, three new eLearning classes have been added to the schedule:

- What’s New in CATIA V5 R19
- Bill of Materials and Balloons
- CATIA V5 Batch Utility

RAND’s Live Learning Series is a sequence of live, Expert-Led classes delivered over the Internet on a weekly schedule.

They are designed to complement RAND Worldwide’s classroom learning by providing in-depth looks at a specific CATIA subject. The topics addressed in each class are based on top issues and challenges identified by users who have contacted the RAND Solution Center, as well as from suggestions submitted by registered students.

The 2009 schedule begins with the new course What’s New in CATIA V5 R19 which will cover some of the major enhancements introduced in the Mechanical Design Workbenches of CATIA V5 Release 19 including, Part, Product, Wireframe and Surface, and Drafting.

The Bill of Materials and Balloons class will cover Bill of Materials functionality, customization through standards, and how to populate a drawing with the BOM table and balloons.

CATIA V5 Batch Utility provides users with a variety of tools to automate the export of multiple CATIA V5 files through a single action. This class provides users with information on how to create and run batch programs for data exchange, CATDUAV5, plotting through batch and Downward Compatibility.

“These eLearning classes not only help CATIA V5 users increase their productivity with the software, but also provide the added convenience of easily accessible, expert-led training,” said Joe Oswald, Executive Vice President, PLM Operations North America and Europe, RAND Worldwide. “With the addition of new classes being added to the schedule we are able to offer our clients continuous, year-

long learning opportunities.”

Each online class within the Live Learning Series runs between 45-60 minutes, and enables students to interact with a live, expert instructor who facilitates, instructs, and demonstrates the lesson as well as answers questions and supplies feedback in real time. The instructor executes lessons from their desktop while students participate from their own computer.

To view the entire Live Learning Series schedule for 2009, please visit <http://www.rand.com/1/training/elearning.htm>.

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## ***SolidProfessor Releases 2009 SolidWorks® Professional Bundle***

7 November 2008

[SolidProfessor](#) announced the release of its self-paced learning system for SolidWorks 2009 named the "SolidWorks® Professional Bundle".

SolidProfessor's Professional Bundle includes seven courses for SolidWorks 2009 in a self-paced multimedia format to help SolidWorks users get the most out of their SolidWorks investment. The first three courses in the bundle named 3D Skills, Core Concepts and Drawings are designed to help new users build a solid conceptual foundation in the fundamentals of SolidWorks while Advanced Parts, Advanced Assemblies, Sheet Metal Design and Update Training address the needs of more experienced designers.

The first three courses in the bundle: 3D Skills, Core Concepts, and Drawings teach the skills essential to creating SolidWorks Parts, Assemblies and Drawings. The goal of these courses is to make one productive with SolidWorks quickly, whether one is a new user or wishes to refresh their skills. Advanced Parts, Assemblies, and Sheet Metal are courses designed to build on the Core Concepts foundation. In these courses one will learn topics such as complex geometry creation, surfacing, sheet metal design and more. These courses are ideal for experienced users as well as new users having completed Core Concepts. The last course in the bundle is Update Training which addresses the user-driven enhancements available in SolidWorks' most recent release. New functionality is explored in detail and then presented in easy to understand language with clear visual examples to enhance the learning experience.

SolidProfessor content is particularly valuable as an ongoing reference tool for users of all skill levels who have gone through instructor led training through their Value Added Reseller. Many SolidWorks VARs include SolidProfessor as a blended training solution which combines the best of live instruction with content that can be accessed in an on-demand format long after the classroom experience has ended.

Jason Wright, Product Manager for SolidProfessor comments, "We are very proud of the effort our team. With this release we are the only self-paced training provider to offer a complete library of courses for SolidWorks 2009. Customers eager to take advantage of the newest version of SolidWorks no longer have to wait for the availability of training and support before making the transition." The SolidWorks® Professional Bundle 2009 is available direct from SolidProfessor at \$599 or through its partner resellers.

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# CIMdata PLM Industry Summary

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## *Synopsys Makes Key Contribution to the IPL Alliance*

6 November 2008

[Synopsys, Inc.](#) announced that it has contributed a draft standard for Interoperable Property and Parameter Definitions to the IPL (Interoperable PDK Libraries) Alliance. This contribution from Synopsys significantly advances PDK interoperability by establishing a standard for the critical link between the schematic and layout design data.

The IPL Alliance is an industry-wide collaborative effort to create and promote interoperable process design kit (PDK) standards. A PDK is a comprehensive set of foundry verified data files, including schematic symbols, property and parameter definitions, parameterized cells (PCells), used in a complete analog and mixed signal design flow. The Synopsys Property and Parameter Definitions contribution is the result of a collaborative effort between IPL Alliance members and represents major progress in achieving IPL Alliance interoperability goals.

"As a founder of the IPL Alliance, SpringSoft welcomes Synopsys' contribution of the interoperable property and parameter definitions to the IPL standard," said Scott Sandler, president of SpringSoft USA. "We have demonstrated the interoperability of these standards and the advanced PCell functions they enable with our Laker Custom Layout System, while passing data to and from Synopsys' Galaxy Custom Designer™ solution and other OpenAccess-based tools. We appreciate the dedication and support of the Synopsys team that prepared these critical elements of the IPL standard."

"Synopsys has been a strong advocate of standards that benefit the industry and enable us to better serve our customers," said Rich Goldman, vice president of corporate marketing and strategic market development at Synopsys. "Standardized PDKs can reduce PDK development and support costs, minimize integration efforts and create choices for our customers in building their analog and custom design flows. This contribution demonstrates our continued support of and commitment to the IPL Alliance to facilitate the growth of the industry, as well as our customers' success."

The property and parameter definitions draft standard will be immediately available to current IPL members. The IPL Alliance Property and Parameter Working Group will work towards finalizing and approving the draft standard. For more information, please contact Jingwen Yuan, IPL Alliance, at [info@iplnow.com](mailto:info@iplnow.com).

### **About the IPL Alliance**

The IPL (Interoperable PDK Libraries) Alliance is an industry wide collaborative effort to create and promote interoperable process design kit (PDK) standards. Since its inception in April 2007, the IPL Alliance has made tremendous progress in solving PCell interoperability. A free IPL reference library and an online interoperability demonstration are available for download at <http://www.iplnow.com/>, the IPL Alliance web site. An IPL ecosystem has been established to validate PCell interoperability within all members' tools. The IPL Alliance has formed three technical working groups for Properties and Parameters, PCells and Constraints to expand its charter to address broader interoperability issues with foundry PDKs and design flows. IPL Alliance members include Applied Wave Research (AWR), Ciranova, Helic, JEDAT, Magma Design Automation, Micro Magic, Silicon Navigator, SpringSoft, SynCira, Synopsys, TSMC and Virage Logic. Mentor Graphics and Pulsic are supporting members.

## *Tacton Signs UK-Wide Reseller Agreement with Solid Solutions*

6 November 2008

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Tacton Systems announced that Solid Solution Management has signed a reseller agreement for TactonWorks – whereby Tacton Configurator is embedded in SolidWorks as an add-in product. TactonWorks supports manufacturers in generating custom configured quotations and drawings for order processing.

Solid Solutions Management, the UK's leading SolidWorks reseller based in Warwick, is specifically focused on the delivery and support of SolidWorks products for the mainstream mechanical design market. The company provides solutions for a wide range of industries throughout the UK, ranging from the power and marine industries to automotive and retail.

TactonWorks is geared to manufacturers with a need for order-specific customization of the product design, e.g. engineer-to-order, assemble-to-order, or configure-to-order, where rules can define what is a valid design for the customer's requirements. TactonWorks offers advantages in interactivity, validation, and ease of maintenance over competing Knowledge Based Engineering solutions for SolidWorks, in much the same way as 3D CAD has these advantages over 2D CAD.

The agreement will add to Tacton's growing global exposure by providing access to Solid Solutions' customer base in the UK, where they work with around 2,000 clients.

"The formal arrangement with Tacton is a perfect fit with our intention of bringing better design efficiencies and productivity to our customers," says Alan Sampson, Managing Director of [Solid Solutions](#) Management. "We do a lot of bespoke programming for organizations, and we want to make that easier for companies to manage by themselves, leveraging technologies such as TactonWorks to streamline efficiencies in design and development."

"The agreement with Solid Solutions Management is an important opportunity for us to reinforce our presence in the UK region, which is a significant hub for design and manufacturing, and also to bring ourselves closer to a key SolidWorks solutions provider," says Christer Wallberg, CEO, [Tacton Systems](#).

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## ***Yunique Solutions Names Industry Veteran Rodney Harrelson as Western Region Sales Director***

29 October 2008

In response to rapid growth in the region, Yunique Solutions Inc. (<http://www.yunique.com>) has appointed fashion and sewn products industry veteran Rodney Harrelson as its first-ever Western Regional Sales Manager. With more than 20 years of software and capital equipment sales and management experience, Mr. Harrelson immediately assumes responsibilities for the sale of Yunique's plmOn™ product lifecycle management (PLM) and srmOn™ supplier relationship management (SRM) software solutions to fashion and sewn products retailers, brands, and manufacturers in the Western US.

Prior to joining Yunique Solutions, Harrelson held increasingly responsible sales and sales management positions with CAD/CAM/PLM suppliers Gerber Technology, Lectra Systems, and Microdynamics. From his Los Angeles area base, Harrelson has successfully implemented a wide range of technology with leading fashion companies including Levi Strauss, Gap Stores, Kellwood Corporation, Nordstrom, and Byer California. Prior to beginning his sales career, Harrelson managed cutting room operations at Jantzen and served in various engineering and manufacturing roles with other west coast apparel companies.

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## Events News

### ***Cimatron Partners with Leading Machine Vendors at JIMTOF***

3 November 2008

Cimatron Limited announced that leading machine builders presenting at Japan's International Machine Tool Fair (JIMTOF) are showcasing parts cut on their advanced machining solutions and programmed by Cimatron's NC software.

OKK (Booth E5004) is demonstrating cutting of an aerospace joystick on a VP400-5XA machine, showcasing high velocity continuous 5-axis machining resulting in polish-free quality of a complex surface part.

Machine builder Roku-Roku (Booth E3019) is showing an electrode and golf club programmed by [Cimatron](#) and cut on the Roku-Roku MEGA-S high precision / high speed machining center. Cimatron's advanced micro milling capabilities provide the accuracy required for producing these parts, with top surface quality of up to 0.19 Micron.

Visitors to the Mazak booth (E4013) can see a car light cut on the VCN410A-II high speed machine. Programmed with CimatronE NC, the part exhibits high surface quality with deep cavity mold that eliminates the need for using electrodes, drastically reducing machining cost and time.

Cimatron's products, including the latest die design and NC applications, will also be on display at the Saeilo Japan Inc. booth (W0024).

With over 40,000 installations worldwide, Cimatron is a leading provider of CAD/CAM solutions for tool making and manufacturing. Cimatron's NC solutions include powerful built-in CAD capabilities that help prepare the geometry for best machining results.

Cimatron NC 5-Axis Production supports positioning and continuous milling, providing full control over the tilt and lead angles as well as complete gouge and collision check. Touch-of-a-button 5-axis tilting solution is especially suitable for parts with deep cavities, narrow ribs, and tight corners, allowing the use of shorter and rigid tools for rapid machining and superb surface quality.

Cimatron's 5-Axis solution includes a rich set of solutions to support streamlined 5-Axis machining of common applications such as impellers, turbine blades, electrodes, and engraving. To smooth the integration of the application into the 5-Axis manufacturing environment, an extensive selection of post-processors is provided by Cimatron.

"JIMTOF provides a unique opportunity to get a firsthand view of the latest machining technologies, including Cimatron's advanced CAM capabilities," said Danny Haran, Cimatron's President and Chief Executive Officer. "Working closely with global leading machine vendors, we help leading tool makers and manufacturers produce high quality tools and parts while significantly shortening delivery times."

The 2008 Japan's International Machine Tool Fair is taking place October 30 to November 4 at the Tokyo Big Sight international exhibition center. Registration and additional details are available at <http://www.jimtof.org/eng/index.html>.

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## ***COADE CADWorx Plant Design Webinar on November 6 to Introduce CADWorx Design Review***

4 November 2008

COADE announced that a new webinar, scheduled for November 6, 2008, at 12 pm CDT, will introduce the company's new CADWorx Design Review package and feature David Little, director of Technology Research & Development for COADE. Model review is an important part of today's design process.

CADWorx Design Review creates informative and visually stunning animated models and makes collaboration efficient and fast because each stakeholder can see an accurate 3D model of how the design will look when completed. Its highly intuitive, interactive tools make it easy to produce review deliverables such as markups, comments and red-lining. During the webinar, Little will demonstrate the use and power of CADWorx Design Review in the modeling environment.

Details on this and other COADE webinars can be found on the CADWorx User Blog at [http://coade.typepad.com/cadworx/webinar\\_future/index.html](http://coade.typepad.com/cadworx/webinar_future/index.html). CADWorx product details are available at <http://www.coade.com>.

About David Little, webinar leader:

David Little, director of Technology Research and Development for COADE, is responsible for all new technologies used by COADE in the development of all the company's software applications. He is the author of CADWorx Design Review as well as the Caesar II and PVElite user interface.

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## ***Delcam to Host Free Seminar on Composites in Aerospace***

4 November 2008

Companies wishing to benefit from the current boom in the use of composites in the aerospace industry will be able to learn more about the opportunities at a free seminar being hosted by Delcam at its Birmingham headquarters on Wednesday 26th November. The seminar, which is being organised by the National Composites Network and Aerospace Manufacturing magazine, will allow those new to the materials, and those hoping to win more business in the industry, to meet, and learn from, a range of experts from both the commercial and technical sides of composites manufacture.

Presentations at the event will include an overview of the opportunities from Manchester University, an update on the Next-Generation Wing Project from GKN and advice for SMEs entering the industry from Airbus. Other topics will include the latest developments in machine tools, cutting tools and manufacturing software for the composites industry.

The changing patterns in materials use in the aerospace industry offer both threats and opportunities to component manufacturers and the toolmakers that support them. In particular, companies that have been hit by the decline in UK toolmaking could find new opportunities in the composites area. Their skills in producing complex injection moulds could be transferred relatively easily to the manufacture of tooling for compression moulding and reaction injection moulding of composites. Similarly, firms that have traditionally made models and patterns for the metals industry could turn to producing similar items for composites manufacture.

Further details and a registration form can be found on the NCN web site at

<http://www.ncn-uk.co.uk/DesktopModules/ViewDocument.aspx?DocumentID=847>.

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## ***ECAD Inc., #1 Supplier of COADE Solutions, Largest Exhibitor at COADE CADWorx User Conference***

7 November 2008

COADE announced that ECAD Inc., the #1 worldwide supplier of COADE's AutoCAD-based CADWorx Plant Design Suite, was among a select group of exhibitors invited to participate at this year's COADE CADWorx User Conference, held October 20-22 in Houston, Texas. ECAD brought in representatives of its 10 sales offices to support the event and meet with users, many of whom receive technical support from ECAD staff. During the exhibit portion of the conference, ECAD featured COADE's CADWorx fieldPipe for Leica fieldPro solution in its booth.

"The CADWorx User Conference was a great opportunity for us to interact with our user base and the COADE team at the same time, an opportunity that doesn't come along that often," explained Carole Eckert, ECAD's president and CEO. "Although we are located in the petrochemical heartland, the conference also gave us the opportunity to meet users from a broader range of industries such as food, beverage, brewing, pharmaceutical, water treatment, building services and architectural, all in the same sessions," Eckert concluded.

Details on ECAD can be found at <http://www.ecadinc.com>. Details on the 2008 CADWorx User Conference are at <http://www.2008CADWorxConference.com> and at <http://www.coadeuserconference.com/2009/>. Information on COADE and its products can be found at <http://www.coade.com>.

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## ***Leading Energy, Chemicals, and Other Process Industry Manufacturers Gather in Seattle for AspenTech Supply Chain Management User Conference November 2008***

4 November 2008

The world's leading process manufacturers are gathering here this week to share best practices in supply chain management at the AspenTech Supply Chain User Conference, at the Olympic Fairmont Hotel.

The conference includes keynote presentations by Microsoft and Bridgestone Americas, with other leading customers including DuPont, ExxonMobil, and Proctor & Gamble also sharing their supply chain management experiences.

This event brings together the top energy, olefins, chemicals, polymer, and consumer packaged goods companies from around the world to provide their vision and feedback for future product enhancements to address common process industry challenges.

Attendees will learn from peers how AspenTech's process optimization solutions can drive supply chain best practices, making global operational excellence goals easier to achieve.

### **Supporting Quote:**

Blair Wheeler, SVP of Marketing, AspenTech

"AspenTech user conferences are exceptional forums for leaders in process manufacturing to share best practice insights on process optimization. Attendees at our supply chain event will hear practical

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solutions that address the real-world challenges of improving flexibility and agility to meet customer demands, increasing alignment and cooperation between marketing, sales and production planning, and creating profitable opportunities in a changing economy.”

## **Supporting Resources:**

Links to more information:

[Supply Chain Management User Conference](#)

[aspenONE for Process Manufacturers](#)

[Other AspenTech User Group Meetings](#)

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## ***Lectra Hosts Design Event in Conjunction With Apparel Tech Conference 2008***

3 November 2008

Lectra announced they are hosting their US design conference at the Lectra Loft, 25 West 39th Street (between 5th and 6th Avenue), 4th Floor their fashion headquarters in the heart of the fashion district.

During this one and a half day event, Lectra will bring together dozens of leading fashion companies to address design issues facing all fashion companies today. The event will kick off with a cocktail reception on November 6 from 4:00 - 7:00pm at the Lectra Loft. On Friday, November 7, from 9:00am - 3:30pm, an executive focused forum will include customers The Children's Place Retail Stores, Inc. and Liz Claiborne who will present case studies. In addition, Partner, 24 Seven Inc. will discuss the need for creative design professionals, and Datacolor will present the importance of color in design.

## **Apparel Tech Conference 2008**

Lectra's Design Event will follow its participation at the Apparel Tech Conference 2008 in New York City, November 5-6. Held at New York's Fashion Institute of Technology, the conference will feature industry thought-leaders and more than 30 educational sessions over a 2-day period. Lectra's fashion industry thought-leader, Jill M. Simmons, Kaledo Business Development Manager, will explore the possibilities for creating storyboards, for both internal and external presentations, making the most of the design assets that are available to an organization in her presentation at Apparel Tech Conference on November 6th.

## **Lectra Showcases Kaledo**

Lectra's Kaledo allows designers to create styles and products quickly and easily, as well as to build and share collection plans. It provides a unique way to improve and accelerate the collection validation process by automatically transferring modifications made to a style, a color, or a fabric to any garment or storyboard in which it has been used. It also ensures smooth communication between designers and product development teams by sharing, in the same database, visual information created by designers translated into analytical data for product developers.

The Kaledo range includes the Kaledo Collection application for designing collections along with Kaledo Print, Kaledo Knit and Kaledo Weave, the textile applications for creating original prints, knits and dobby woven fabrics respectively.

"In this highly competitive retail and economic environment, fashion companies are pressured to deliver flawless collections more frequently than ever before," according to Jill M. Simmons, Kaledo Business

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Development Manager. "Designers need powerful design tools to create, validate, modify their collections. Keeping their samples visual and virtual early in the process allows them to create a more cohesive and 'market-right' collection that will lead to better sell-through. Something that is essential for any brand anytime, but absolutely imperative with the current state of the economy."

According to Roy Shurling, President of Lectra North America, "Lectra's Kaledo has allowed many fashion companies to share data in real-time with their design teams and those responsible for development. Lectra is pleased to help our customers make their design process easier by integrating it into our product life cycle very early on, allowing them to speed up their collection development and strengthening their competitiveness at the same time."

To register for Lectra's Design Event, please contact Michael Bugno at [m.bugno@lectra.com](mailto:m.bugno@lectra.com) or call 212.730.4444 x210.

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## Financial News

### ***ANSYS Reports Strong Core Revenue Growth and Robust Operating Results for the Third Quarter***

6 November 2008

ANSYS, Inc. announced the Company's third quarter operating results. The Company has also provided its initial outlook for the 2009 fiscal year.

Jim Cashman, president and CEO, commented on the Company's third quarter 2008 performance stating, "This quarter was another important milestone in the ANSYS journey as we completed the strategic acquisition of Ansoft. We remain optimistic that today's quarterly report, which includes two months of operations as a combined company, is only the beginning as we continue to focus and execute on our integration plan and long-term strategy for the Company. Despite uncertainties and confidence issues that are predominant in today's global economy, we continue to forge ahead and deliver business results in-line with our commitments and our proven strategy. We have a strong balance sheet, strong cash flows, solid fundamentals and a disciplined team that will help to steer us through the current business climate. We also believe that we have a resilient business model that can continue to drive profitable growth while we deliver on the ANSYS mission to lead innovation in engineering simulation. Our solid operating performance in the third quarter is a testimony to our belief that engineering simulation solutions remain a high priority for our expanding customer base even in a challenging economic environment. The business pressures on our customers to deliver innovative, high-quality products to the markets, with fewer resources, have never been greater."

ANSYS' third quarter and year-to-date 2008 financial results are presented below. The non-GAAP results exclude the income statement effects of stock-based compensation, purchase accounting for deferred revenue and acquisition-related amortization of intangible assets. Non-GAAP and GAAP results reflect:

- Total non-GAAP revenue of \$128.8 million in the third quarter of 2008 as compared to \$94.0 million in the third quarter of 2007; total non-GAAP revenue of \$349.6 million in the first nine months of 2008 as compared to \$275.9 million in the first nine months of 2007; total GAAP revenue of \$122.2 million in the third quarter of 2008 as compared to \$94.0 million in the third

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quarter of 2007; total GAAP revenue of \$343.0 million in the first nine months of 2008 as compared to \$274.1 million in the first nine months of 2007;

- A non-GAAP operating profit margin of 45.6% in the third quarter of 2008 as compared to 43.8% in the third quarter of 2007; a non-GAAP operating profit margin of 47.0% in the first nine months of 2008 as compared to 43.3% in the first nine months of 2007; a GAAP operating profit margin of 31.3% in the third quarter of 2008 as compared to 33.6% in the third quarter of 2007; a GAAP operating profit margin of 36.1% in the first nine months of 2008 as compared to 32.4% in the first nine months of 2007;
- Non-GAAP net income of \$38.7 million in the third quarter of 2008 as compared to \$25.0 million in the third quarter of 2007; non-GAAP net income of \$105.8 million in the first nine months of 2008 as compared to \$73.0 million in the first nine months of 2007; GAAP net income of \$25.8 million in the third quarter of 2008 as compared to GAAP net income of \$18.7 million in the third quarter of 2007; GAAP net income of \$79.8 million in the first nine months of 2008 as compared to GAAP net income of \$53.1 million in the first nine months of 2007; and
- Non-GAAP diluted earnings per share of \$0.43 in the third quarter of 2008 as compared to \$0.31 in the third quarter of 2007; non-GAAP diluted earnings per share of \$1.25 in the first nine months of 2008 as compared to \$0.90 in the first nine months of 2007; GAAP diluted earnings per share of \$0.29 in the third quarter of 2008 as compared to GAAP diluted earnings per share of \$0.23 in the third quarter of 2007; GAAP diluted earnings per share of \$0.94 in the first nine months of 2008 as compared to GAAP diluted earnings per share of \$0.66 in the first nine months of 2007.
- Operating cash flows of \$42.7 million in the third quarter of 2008 as compared to \$26.3 million in the third quarter of 2007; operating cash flows of \$135.0 million in the first nine months of 2008 as compared to operating cash flows of \$85.5 million in the first nine months of 2007.

The Company's GAAP results reflect stock-based compensation charges of approximately \$2.8 million (\$2.3 million after tax), or \$0.03 diluted earnings per share, for the third quarter of 2008 and approximately \$8.7 million (\$7.0 million after tax), or \$0.08 diluted earnings per share, for the first nine months of 2008.

The non-GAAP financial results highlighted above, and the non-GAAP financial outlook for 2008 and 2009 discussed below, represent non-GAAP financial measures. A reconciliation of these measures to the appropriate GAAP measures, for the three months and nine months ended September 30, 2008 and 2007, and for the 2008 and 2009 financial outlook, is included in the condensed financial information included in this release.

Cashman continued, "Recently, we held our ANSYS 2008 International Users Conference, along with a number of regional user conferences throughout the globe. We received enthusiastic responses from customers and partners not only to our upcoming product launches, but also to our long-term vision and product strategy. We believe that the continued strength of our financial performance validates our strategy to engage customers at new levels driven by the breadth and depth of our world-class simulation capabilities. It also reinforces the importance of continued focus on our customers and their increasingly complex challenges as we build the foundation for the future."

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Cashman concluded by stating, "While we continue to remain optimistic about our near term outlook, and more importantly, our long-term future, we also are faced with the realities and challenges that stem from the economic uncertainty that currently exists across many markets. In spite of these, and as we have demonstrated in the past, we have a combination of internal disciplines and good business visibility which we will use to direct our focus and resources toward delivering results in line with our current outlook for 2009. Our efforts over the last several years have positioned us with a vast array of technologies that set us apart in the industry, continue to bring us new business and increase the adoption rates of ANSYS solutions with our existing customer base. While a great deal of work remains to be done, our strategies and vision have continued to be validated. The opportunity over the long haul appears to be solidifying, and we believe that the ANSYS trajectory of future technology, coupled with our focus on execution and understanding of the business drivers, should enable us to cope with current and future challenges. This is a real testament to all of our employees, partners and expanding array of customers who have propelled us in this endeavor. As we enter into the close of this year, we are committed to continuing to focus and invest to support the needs of our customers and our business, all with an eye toward generating long-term stockholder value."

## **Management's Remaining 2008 and Initial 2009 Financial Outlook**

The Company has provided its 2008 and 2009 revenue and earnings per share guidance below. The revenue and earnings per share guidance is provided on both a GAAP basis and a non-GAAP basis. Non-GAAP revenue and non-GAAP diluted earnings per share exclude charges for stock-based compensation, as well as the income statement effects of purchase accounting for deferred revenue and acquisition-related amortization of intangible assets.

### **Fourth Quarter 2008 Guidance**

The Company currently expects the following for the quarter ending December 31, 2008:

- GAAP revenue in the range of \$137 - \$141 million
- Non-GAAP revenue in the range of \$145 - \$149 million
- GAAP diluted earnings per share of \$0.26 - \$0.29
- Non-GAAP diluted earnings per share of \$0.43 - \$0.45

### **Fiscal Year 2008 Guidance**

The Company currently expects the following for the fiscal year ending December 31, 2008:

- GAAP revenue in the range of \$480 - \$484 million
- Non-GAAP revenue in the range of \$494 - \$499 million
- GAAP diluted earnings per share of \$1.20 - \$1.23
- Non-GAAP diluted earnings per share of \$1.68 - \$1.70

### **Fiscal Year 2009 Initial Guidance**

The Company currently expects the following for the fiscal year ending December 31, 2009:

- GAAP revenue in the range of \$602 - \$622 million

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- Non-GAAP revenue in the range of \$610 - \$630 million
- GAAP diluted earnings per share of \$1.30 - \$1.44
- Non-GAAP diluted earnings per share of \$1.84 - \$1.90

Non-GAAP revenue and diluted earnings per share are supplemental financial measures and should not be considered as a substitute for, or superior to, revenue and diluted earnings per share determined in accordance with GAAP.

## Conference Call Information

ANSYS will hold a conference call at 10:30 a.m. Eastern Time on November 6, 2008 to discuss third quarter results. To participate in the live conference call, dial 888-631-3389 (US & CAN) or 913-312-9305 (INT'L) and enter the passcode "ANSYS" or "26797". The call will be recorded and a replay will be available approximately two hours after the call ends. The replay will be available for one week by dialing 888-203-1112 (US & CAN) or 719-457-0820 (INT'L) and entering the passcode "ANSYS" or "26797". The archived webcast can be accessed, along with other financial information, on ANSYS' website at <http://www.ansys.com/corporate/investors.asp>.

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## *Autodesk Announces Preliminary Third Quarter Results*

4 November 2008

Autodesk, Inc. announced preliminary financial results for the third quarter ended October 31, 2008. Based on preliminary financial data, the company expects total revenue to be in the range of \$604 million to \$607 million. GAAP earnings are expected to be in the range of \$0.41 to \$0.43 per diluted share. Non-GAAP earnings are expected to be in the range of \$0.53 to \$0.55 per diluted share and exclude \$0.07 related to stock-based compensation expense and \$0.05 for the amortization of acquisition related intangibles.

"The sharp downturn of the global economy is substantially impacting our business," said Carl Bass, Autodesk president and CEO. "Demand for our products fell dramatically in October in all geographies as the financial crisis worsened. With many of our customers and partners unable to secure credit, projects are being delayed and our business is being impacted. While our currency hedge will provide a net benefit to our third quarter, the considerable strengthening of the U.S. dollar and our unusually low ending level of backlog will likely create a significant headwind for the next few quarters.

"Our third quarter net income will include the benefit of some reductions to previous cost estimates. In addition we have begun to take actions to reduce our cost structure in this uncertain economic environment which we believe will position the company to emerge from this downturn in a stronger financial and competitive position."

Autodesk will announce final third quarter financial results in a press release immediately following the close of market on November 20, 2008. The company will also host a live conference call and webcast to discuss these results on November 20, 2008 at 2:00 p.m. Pacific Time. The call will be webcast at <http://www.autodesk.com/investors>. If you are unable to access the Internet, you may dial in at 866-510-0710 or 617-597-5378 and enter passcode number 46764406. An audio replay webcast and podcast will also be available after 4:00 p.m. Pacific Time on our website at <http://www.autodesk.com/investors> or

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by dialing 888-286-8010 or 617-801-6888 and reference 73660289 as the passcode.

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## ***Avatech Solutions to Report Fiscal 2009 First Quarter Results on Friday, November 14, 2008***

7 November 2008

Avatech Solutions, Inc. announced it will release its financial results for the quarter ended September 30, 2008, before the market opens on Friday, November 14, 2008. The Company has scheduled a conference call for 11:00 a.m. Eastern Time on the same day.

The dial-in numbers for the conference call are 888.680.0865 (domestic) or 617.213.4853 (international), and enter the passcode (91800494). A replay of the call will also be available through November 21, 2008, and can be accessed by dialing 888-286-8010 (domestic) or 617-801-6888, and dialing the passcode (17476623).

A live webcast of the conference call will be available to all investors in the Investor Relations section of the Company's website, <http://www.avatech.com> For those who cannot listen to the live broadcast, an audio replay of the call will also be available on the Company's site for a limited time.

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## ***CENIT Sees Increased Sales and Results in 3rd Quarter***

6 November 2008

During the 3rd Quarter, CENIT achieved a 28% increase in Group-wide sales, from 17.5 to 22.3 m €. Simultaneously, the operative result (EBIT) rose by 6% to 1.9 m €. This strongly reconfirmed the 2008 sales expectations projected in mid-year, namely a total of 75 m € with an operative result (EBIT) between 4 and 4.5 m €. This permitted us to halt the decline in results seen during the first half of the year. During the reporting period, the number of employees rose by 21% from 602 to 726 Group-wide.

### **Overview of 3rd Quarter**

During the 3rd Quarter, Group-wide sales grew by 28% to 22.3 m € (Q3/2007: 17.5 m €). The gross surplus increased by 18% to 16.6 m € (Q3/2007: 14.1 m €). EBITDA attained 2.5 m € (Q3/2007: 2.1 m € / 19%). EBIT during the reporting period amounted to 1.9 m € (Q3/2007: 1.8 m € / 6%). The pre-tax result (EBT) was 2.1 m € (Q3/2007: 2.1 m € / 0%). The consolidated result attained 1.6 m € (Q3/2007: 1.5 m € / 7%). Consolidated EPS (earnings per share) thus derive to 0.19 € per share (Q3/2007: 0.18 € / 6%).

### **Overview of 3rd Quarter Figures**

After 9 months, Group-wide sales attained 56.6 m € (09/2007: 55.6 m € / 2%). The gross surplus grew by 3% to 44.9 m € (09/2007: 43.6 m €). EBITDA reached 3.9 m € (09/2007: 7.3 m € / -47%). EBIT during the reporting period amounted to 2.8 m € (09/2007: 6.5 m € / -57%). The pre-tax result (EBT) was 3.3 m € (09/2007: 7.0 m € / -53%). The consolidated result was 2.6 m € (09/2007: 4.6 m € / -43%). Consolidated EPS (earnings per share) thus derive to 0.31 € per share (09/2007: 0.55 € / -44%). The operative cash flow was 4.5 m € (09/2007: 7.4 m € / -39%). On the balance-sheet date, the total of bank

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deposits and securities incl. current assets amounted to 9.3 m €(31.12.2007: 18.3 m €). The equity ratio was 64% (09/2007: 70.8%). The enterprise remains free of bank liabilities. Incoming orders grew by 21%, accounting for a total of approx. 74 m € (09/2007: 61 m €).

## Holdings – Foreign Subsidiaries

CENIT (Switzerland) AG achieved sales of 3.7 m €(09/2007: 2.5 m €), accounting for EBIT of 2.1 m € (09/2007: 1.4 m €).

CENIT North America Inc. accomplished sales of 4.9 m € (09/2007: 3.8 m €) and EBIT of 0.2 m € (09/2007: 0.3 m €).

CENIT SRL achieved sales of 0.5 m €(09/2007: 0.2 m €) and EBIT of 0.1 m €(09/2007: 0,02 m €).

The CENIT company in Toulouse, France generated sales of 0.2 m €and EBIT of 0 m €

cad schleffler GmbH, incorporated into CENIT Group since January 2008, achieved sales of 2.1 m €and EBIT of 0.4 m €

## Breakdown of Earnings

The sales volume in the services sector grew by 12% to a current 37.1 m €(09/2007: 33.2 m €), making it the strongest contributor to sales with share of 66%. During the first 9 months of the current business year, sales of [CENIT](#) software totaled 7.7 m €(09/2007: 8.6 m €/-10%). Thus, approx. 14% of overall sales can be attributed to sales of CENIT's proprietary software. Sales of non-CENIT software increased by 51% to 9.4 m €(09/2007: 6.2 m €) and thus accounted for 17% of total sales. The hardware business contracted by 68% to 2.4 m €(09/2007: 7.6 m €), equaling approx. 4% of total CENIT sales.

## Outlook

For the 2008 business year, CENIT's management reaffirms its sales expectations of 75 m €as well as its Group-wide EBIT forecast of between 4 and 4.5 m €

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## ***MSC.Software Reports Financial Results for the Third Quarter Ended September 30, 2008***

4 November 2008

MSC.Software Corporation reported results for the third quarter ended September 30, 2008. Financial highlights include the following:

### **HIGHLIGHTS**

Quarter ended September 30, 2008:

Total revenue of \$63.7 million, an increase of 11% over the third quarter last year,

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Software revenue of \$21.5 million, an increase of 8% over the third quarter last year,  
Maintenance revenue of \$34.6 million, an increase of 9% over the third quarter last year,  
Services revenue of \$7.6 million, an increase of 33% over third quarter last year,  
Net income of \$2.3 million, and EPS of \$0.05 per share.

Nine Months ended September 30, 2008:

Total revenue of \$189.4 million, an increase of 8% over the same period last year,  
Maintenance revenue of \$103.6 million, an increase of 12% versus the same period last year,  
Deferred revenue at September 30, 2008 of \$77.2 million, and  
Cash and Investments at September 30, 2008 of \$154.2 million.

## REVENUE

Total revenue for the nine months ended September 30, 2008 was \$189.4 million compared with \$175.6 million for the nine month period in 2007. Software revenue totaled \$64.6 million in 2008 compared with \$65.9 million in 2007. Maintenance revenue totaled \$103.6 million and services revenue totaled \$21.2 million for the first nine months of 2008, compared with \$92.3 million of maintenance revenue and \$17.4 million of services revenue for the nine months in 2007. Foreign exchange favorably impacted total revenue by \$15.7 million in the nine months ended September 30, 2008.

"Revenue growth of 11% in the third quarter indicates better acceptance of our business across both SimEnterprise and MD solutions, as well as increases in maintenance revenue and services activities," said Bill Weyand, CEO and Chairman of MSC.Software. "With our enterprise solutions being deployed under multi-phase, multi-year implementation programs, we believe this can provide a good base of business for us going forward."

"While we are mindful of the global macroeconomic environment, we believe a number of important factors will allow MSC to weather this storm," said Bill Weyand, CEO and Chairman of MSC.Software. "As a software company with more than 45 years serving the aerospace and automotive industries, we have seen these cycles before and we know how our customers behave. We believe they will look at their internal processes to improve productivity by reducing physical prototype testing in order to save costs, speed time to market and accelerate product innovation. However, we believe that a prolonged economic downturn could adversely impact our customers, IT spending patterns, and thereby our business as well."

"SimEnterprise releases in the third quarter are enhanced with features that address industry specific requirements related to a number of simulation technologies including composites, advanced materials, collaboration and multi-discipline analysis. In addition these releases have features designed to support and demonstrate the value of SimEnterprise in new industries such as packaging and consumer goods," continued Mr. Weyand.

## REVENUE BY GEOGRAPHY

Total revenue in the Americas for the third quarter and nine months ended September 30, 2008 was \$20.3 million and \$59.0 million, respectively, compared with \$17.6 million and \$53.2 million last year. Total revenue in EMEA for the third quarter and nine months ended September 30, 2008 was \$25.3 million and \$73.6 million, respectively, compared with \$21.5 million and \$65.9 million last year. Changes in the Euro increased EMEA revenue by \$2.6 million in the quarter and \$9.0 million in the nine

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month period. In the Asia region, revenue for the third quarter and nine months ended September 30, 2008 totaled \$18.1 million and \$56.8 million, respectively, compared with \$18.1 million and \$56.4 million last year. Changes in the Japanese Yen increased Asia revenue by \$2.0 million in the quarter and \$6.7 million in the nine months.

### RESULTS OF OPERATIONS AND EPS

Total operating expenses for the third quarter ended September 30, 2008 were \$48.1 million, compared with \$46.3 million last year. Foreign currency impacts increased total operating expenses by \$1.9 million in the third quarter of 2008. Operating income for the third quarter was \$3.0 million, which compares with operating income of \$0.4 million in the third quarter last year. This quarter's operating expenses included \$1.1 million of restructuring and other charges and the third quarter last year included \$0.8 million of restructuring and other charges. Income from continuing operations for the quarter totaled \$2.3 million or \$0.05 per diluted share, compared with \$0.1 million in the third quarter last year.

Total operating expenses for the nine months ended September 30, 2008 were \$154.3 million, compared with \$151.6 million last year. Foreign currency impacts increased total operating expenses by \$7.6 million in the nine month period of 2008. The operating loss for the nine month period was \$1.8 million, compared with an operating loss of \$9.1 million in the nine month period last year. The operating loss for the first nine months of 2008 included \$2.0 million of restructuring charges and for the nine month period ended September 30, 2007 included \$8.6 million of restructuring and other charges. Net income from continuing operations for the nine months totaled \$1.2 million or \$0.03 per diluted share, compared with a loss of \$4.9 million or (\$0.11) per diluted share in the nine months last year.

### CONFERENCE CALL

The Company will host a conference call to discuss the third quarter financial results today at 8:00 am pacific (11:00 pm eastern). The third quarter conference call will include a slide presentation that can be downloaded at: <http://www.mscsoftware.com/ir/>. The conference call can be accessed by web cast at: <http://www.mscsoftware.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: 68570574.

An archived version of the conference call will be available at <http://www.mscsoftware.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: 68570574.

For additional information about MSC.Software's products and services, please visit [www.mscsoftware.com](http://www.mscsoftware.com).

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### *Nemetschek Still Growing*

30 October 2008

The Nemetschek Group will publish provisional figures for the third quarter today.

According to the figures, revenues in the first nine months increased by 6% to 109.0 million euros. Adjusted to take currency fluctuations against the US Dollar into account growth would have been 7.5%. The Design segment accounted for the largest revenue contribution with an increase in revenues of 6.5% at 90.2 million euros. Compared with the same period in the previous year, sales abroad increased by 4.7% to 67.7 million euros and thus accounted for roundabout two thirds on the group's

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overall sales. Year-on-year revenues increased by almost 8 % to 35.6 million euros in the third quarter of 2008.

## **EBITDA up by 7 percent**

The operating result (EBITDA) increased by 7% to 22.7 million euros in the first nine months, compared with 21.2 million euros in the same period of the previous year. This corresponds to an EBITDA margin of 20.8%, compared with 20.6% in the same period of the previous year. Year-on-year, EBITDA improved from 7.3 million to 7.5 million euros. The EBITDA margin in the third quarter is thus at 20.3%. The earnings per share for the first nine months of 2008 amount to 0.93 euros.

## **Sustained high period cash flow**

In the first nine months of 2008, the group achieved a period cash flow of 20.5 million euros, up from 19.4 million euros in the same period in 2007. The cash flow from operating activities amounts to 22.8 million euros, up from 19.3 million euros in the first nine months of 2007.

## **Outlook**

The concrete effects of the looming economic crisis are currently difficult to assess. Based on the available figures and its experience to date, the company management currently assumes that it can, in principle, maintain the goals for the current business year. Nemetschek AG expects to achieve medium single-digit revenue growth with a stable EBITDA margin of more than 20%.

The Q3 report for the period to September 30, 2008 will be published on November 7.

## **Explanations**

Owing to its robust business model and the successful first nine months, Nemetschek AG stands by its plans for 2008. The company has a broad customer base and generates around 35% of its revenues from perennial software maintenance contracts, primarily in Europe. Furthermore, the company's software solutions lead to a significant increase in efficiency among its customers. This is exactly what is called for in times of crisis. "With this in mind we are cautiously optimistic," says Ernst Homolka, CEO of Nemetschek AG. "In view of the enormous uncertainty on the markets, concrete forecasts are more difficult than ever."

## **About Nemetschek**

The Nemetschek Group is a leading international IT company in the AEC sector (Architecture, Engineering, Construction). The technology group develops integrated solutions for the complete life cycle of buildings and real estate – from building design and construction through to facility management. The company's products are currently used by more than 270,000 companies in 142 countries and in 16 languages to optimize the complete building creation and management process in terms of quality, cost and time. Nemetschek was founded in 1963 by Prof. Nemetschek and has more than 1,100 employees worldwide. In fiscal 2007, the group achieved revenues of 146 million euros.

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## ***Open Text Reports First Quarter Fiscal 2009 Financial Results***

3 November 2008

Open Text™ Corporation announced unaudited financial results for its first quarter, ended September 30, 2008. (1)

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Total revenue for the first quarter was \$182.6 million, up 11% compared to \$164.0 million for the same period in the prior fiscal year. License revenue in the first quarter was \$50.1 million, up 13% compared to \$44.3 million for the same period in the prior fiscal year.

Adjusted net income for the first quarter was \$28.2 million or \$0.53 per share on a diluted basis, up 28% compared to \$22.1 million or \$0.43 per share on a diluted basis, for the same period in the prior fiscal year. Net income for the first quarter, in accordance with U.S. generally accepted accounting principles ("U.S. GAAP"), was \$14.7 million or \$0.28 per share on a diluted basis, compared to \$7.8 million or \$0.15 per share on a diluted basis, for the same period in the prior fiscal year.(2)

Total cash and cash equivalents as of September 30, 2008 was \$250.1 million compared to \$150.3 million as of September 30, 2007.

"We are pleased with our results this quarter, driven by demand for our compliance solutions," said John Shackleton, Chief Executive Officer of Open Text. "The business remains on-track, however, given the uncertainty in the global markets we feel it is important to act prudently and focus even more on our profit margins, so that we maintain our current earnings target for the year."

On Friday October 31st, Captaris shareholders voted in favor of the merger of Captaris with a wholly-owned subsidiary of Open Text.

"With the acquisition of Captaris and as part of our commitment to meet our profit goals, we have re-examined our operations to ensure we have the right infrastructure going forward," said Paul McFeeters, Chief Financial Officer of Open Text.

The combined company expects to reduce worldwide employment by approximately 10 percent. Functions impacted by the cuts include redundant positions or areas of the business that are not consistent with the company's strategic focus. These activities will be reflected in a restructuring charge of approximately \$20 million.

Please see note (2) below for a reconciliation of non-U.S. GAAP based financial measures used in this press release, to U.S. GAAP based financial measures.

## Open Text Announces Normal Course Issuer Bid

The Company also announced its intention to make a Normal Course Issuer Bid (the "Bid") through the facilities of the NASDAQ Global Select Market ("NASDAQ"). Pursuant to the Bid, Open Text proposes to repurchase, from time to time, until November 6, 2009, if considered advisable, up to an aggregate of 2,593,263 common shares.

Purchases over the NASDAQ could commence as early as November 10, 2008 if desirable. As of October 31, 2008, Open Text had 51,865,268 issued and outstanding common shares. The Board of Directors of Open Text believes that the proposed purchases are in the best interests of Open Text and are a desirable use of corporate funds. All common shares purchased by Open Text pursuant to the Bid will be cancelled. The Bid will expire on November 6, 2009. The 2,593,263 common shares purchasable by Open Text under the Bid represent the maximum number of shares permitted to be purchased under applicable laws. This maximum is calculated as 5% of the outstanding securities of a class of securities of Open Text at the beginning of the Bid.

## Teleconference Call

Open Text will host a conference call on November 3, 2008 at 5:00 p.m. ET to discuss the financial results of its first quarter ending September 30, 2008.

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A replay of the call will be available beginning November 3, 2008 at 7:00 p.m. ET through 11:59 p.m. on November 17, 2008 and can be accessed by dialing 416-640-1917 and using pass code 21285119 followed by the number sign.

For more information or to listen to the call via Web cast, please use the following link:  
<http://www.opentext.com/events/wa-event.html?id=6810133>.

## Notes

(1) Based on comparison of historical revenue figures publicly disseminated by companies in the ECM sector. All dollar amounts in this press release are expressed in U.S. Dollars unless otherwise indicated

(2) Use of U.S. Non-GAAP financial measures In addition to reporting financial results in accordance with U.S. GAAP, the Company provides adjusted net income and adjusted earnings per share (EPS), which are non U.S. GAAP financial measures. The Company uses adjusted EPS and adjusted net income to supplement the information provided in its consolidated financial statements, which are presented in accordance with U.S. GAAP. The Company believes the provision of these non U.S. GAAP measures allows investors to evaluate the operational and financial performance of the Company's core business using the same evaluation measures that management uses and is, therefore, a useful indication of Open Text's performance or expected performance of recurring operations and facilitates for period-to-period comparison of operating performance.

The presentation of adjusted net income and adjusted EPS is not meant to be a substitute for net income or EPS presented in accordance with U.S. GAAP, but rather should be evaluated in conjunction with and as a supplement to such U.S. GAAP measures. These non U.S. GAAP financial measures have certain limitations in that they do not have a standardized meaning and thus the Company's definition may be different from similar non U.S. GAAP financial measures used by other companies and/or analysts and may differ from period to period. Thus, it may be more difficult to compare the Company's financial performance to that of other companies. However, the Company's management attempts to compensate for these limitations by providing the relevant disclosure of the items excluded in the calculation of adjusted net income and adjusted EPS both in its reconciliation to the U.S. GAAP financial measures of net income and EPS and its consolidated financial statements, all of which should be considered when evaluating the Company's results. Open Text strongly encourages investors to review its financial information in its entirety and not to rely on a single financial measure.

Adjusted net income and adjusted EPS are calculated as net income or net income per share on a diluted basis, excluding, where applicable, the amortization of acquired intangible assets, other income (expense), share-based compensation, and special charges (recoveries), all net of tax. The Company's management believes that the presentation of adjusted net income and adjusted EPS provides useful information to investors because it excludes non-operational charges and is based on the way the Company's management evaluates the performance of the Company's business for use in the Company's internal reports and makes operating decisions. The term "non-operational charge" is defined by the Company as a charge that does not impact operating decisions taken by the Company's management and excludes certain items, such as amortization of acquired intangibles, other income (expense), share-based compensation expense, special charges (recoveries), and the taxation impact of these items.

The for unaudited charts that provide a reconciliation of U.S. GAAP based financial measures to non U.S. GAAP based financial measures referred to in this press release, visit  
<http://www.opentext.com/news/pr.html?id=2134>

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## ***Sopheon Interim Management Statement***

4 November 2008

Sopheon plc issued its interim management statement for the period since 1 July 2008 to the date of this announcement, in line with the requirements of the EU Transparency Directive.

Sopheon's revenues in the third quarter were 60% higher than those recorded in the same period in 2007. This progress has raised revenue visibility\* for the year to £8.1m, compared to £5.8m at this time last year. Although the overall transaction count during the statement period was down compared to a year ago, two of the orders were substantial, and our services business remains strong.

We have been encouraged by feedback from recently signed customers suggesting that, as companies are forced by recessionary pressures to reduce headcount and other types of resources, they are motivated to find more effective ways of prioritising innovation initiatives and ensuring that remaining resources are aligned with the best product opportunities. Such imperatives are well matched with the capabilities of our solutions. Activity in the sales pipeline continues to be high, including several opportunities which we expect to close by year-end that would add to the current visibility of £8.1m noted above.

Despite these positive indicators, we believe that the emerging economic climate is likely to cause prospective clients to become more deliberate and rigorous in their buying decisions, potentially delaying the signing of some contracts. This consideration compounds our usual cautionary concern over the fact that, due to the nature of our business, reported results in a particular period will be affected by the timing and size of individual sales.

\* A definition of how visibility is calculated was provided in our announcement of 25 June 2008.

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## ***Synopsys Announces Earnings Release Date and Conference Call for Fourth Quarter and Fiscal Year 2008***

5 November 2008

Synopsys, Inc. announced it will report results for the fourth quarter and fiscal year 2008 on Wednesday, Dec. 3, 2008, after the market close.

A conference call to review the results will begin at 2 p.m. PT (5 p.m. ET) and will be hosted by Aart de Geus, chairman and chief executive officer, and Brian Beattie, chief financial officer.

Financial and other statistical information to be discussed on this conference call will be available on the corporate website at <http://www.synopsys.com/> immediately before the call. A live webcast will also be available on this site. Participants should access the live webcast at least 10 minutes prior to the start of the call. A webcast replay can be accessed on the corporate website beginning Wednesday, Dec. 3, 2008, at approximately 5:30 p.m. PT. The replay will remain available until Synopsys announces its first quarter results in February 2009. In addition, a dial-up replay of the conference call will be available beginning Dec. 3, 2008 at 4:00 p.m. PT, ending on Dec. 17, 2008. The replay telephone number is USA (800) 475-6701, and International (320) 365-3844, Access Code: 968632.

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## Implementation Investments

### *Audi Sport Wins DTM Championship Title with PTC Product Development System*

3 November 2008

[PTC](#) congratulates its technology partner, Audi Sport, on its recent win of the DTM (Deutsche Tourenwagen Masters) Championship 2008. Audi Sport has used PTC's parametric CAD/CAM/CAE solution [Pro/ENGINEER®](#) for almost a decade to develop its Audi A4 DTM engine. This year, to address its heterogeneous CAD data management needs and enable collaboration among its different engineering departments, Audi Sport implemented [Windchill®](#) PTC's content and process management software, as a common backbone to support its product development efforts. As a result of deploying the [Product development System \(PDS\)](#), Audi Sport has experienced an additional improvement of product quality and process efficiency, realizing a 50 percent increase of evaluated design variants during product development.

Audi Sport, the motor sport department of German premium car manufacturer Audi, develops and tests highly competitive cars for long distance races thereby maintaining a closely reciprocal exchange with Audi's serial development organization. Today Audi Sport finished an excellent racing season winning the DTM championship 2008. DTM is an immensely popular European racing series, with millions of fans visiting the circuits or following the event live on TV. The DTM championship was the fourth of four possible titles Audi Sport was pursuing this year. Official Audi Sport factory teams have already won the 24 Hours of Le Mans and the American and European Le Mans series of long distance races. Audi won the DTM championship for the second consecutive year. However, this year Audi started with a completely new car. This year's Audi A4 DTM racing car is technically even more progressive than the predecessor. Audi's engine developers reduced the inner friction of the power unit, improving the performance curve and torque characteristics of the 460bhp V8-engine. This optimization was done in Pro/ENGINEER, Audi's established tool for engine development, which is also used for developing the TDI race engines for the R10 TDI LMP project.

Whereas the development of a production road car usually takes up to three years, the next generation Audi A4 DTM racing car was developed and built in less than one year using Windchill to manage CAD data from different CAD applications and to enable collaboration among engineers in body, chassis and engine development. Windchill gives all users access to the most current version of any CAD data, regardless of the specific CAD applications they are working with.

"Using the Windchill based PTC Product development system (PDS) reduces search times and unnecessary design iteration," as Ulrich Baretzky, head of Audi Sport engine development, points out. "The management of heterogeneous CAD data is a big challenge. The deployment of Windchill helps us master this challenge." Audi Sport selected Windchill because the software was already successfully installed in their engine development and, when evaluated for heterogeneous CAD data management, it showed to be perfectly capable for easily managing the complex Catia data structures. Additionally, Audi Sport recognized the value of integrating Windchill with their other enterprise applications, enabling them to leverage product information in downstream business processes. "We needed to develop a new DTM car which would be even better than last year's winning car," says Dr. Wolfgang Ullrich, head of Audi Sport. "The long-lasting partnership with PTC has supported us in again finding a competitive edge. Saving time in the engineering process enables us to evaluate additional design variants and pick the best choice for aerodynamics and chassis."

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“We congratulate the new DTM champion, Audi Sport factory driver Timo Scheider, the racing team and the whole Audi Sport organization on this victory which would have been impossible without the dedication of the many engineers who developed and optimized the new Audi A4 DTM. They have mastered the challenge to improve on their own previous innovations and have been justly rewarded,” says Marc Diouane, divisional vice president and chief product officer at PTC. “Audi continues to be a great example of the way leading automotive companies around the world are utilizing PTC solutions to manage complex product development processes. We are proud that Windchill and Pro/ENGINEER were able to support the engineering effort of this world class team.”

## **About AUDI Sport**

Approximately 160 employees in Ingolstadt and Neckarsulm are primarily responsible for developing and testing the race cars. Audi Sport is part of AUDI AG’s Technical Development and is therefore reporting to Michael Dick, board member for Technical Development. Head of Audi Sport since November 1993 is Austrian-born Dr Wolfgang Ullrich. With almost 30 factory supported race events in 2008, Audi Sport undertook the largest and most ambitious motorsport programme in its history. It turned out to be the most successful one by clinching the DTM title with the new Audi A4 DTM, the Le Mans 24 Hours for a third consecutive time with the Audi R10 TDI and also the titles in the American Le Mans Series and the Le Mans Series.

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## ***Automotive Tier-One Suppliers Adopt TPM for Faster, Automated Data Translations***

3 November 2008

Theorem Solutions, Inc. announced the adoption of its Theorem Process Manager (TPM) by several North American automotive suppliers. Among the major automotive suppliers benefiting from the adoption of TPM are the MTU Division of Detroit Diesel and the Cosma Division of Canadian automotive manufacturer Magna International.

Both companies are utilizing TPM to automate the translation of CAD data into formats requested by customers and internal design partners. With a diverse base of customers located across the globe, both companies were suffering from long turnaround times in meeting these data requests. Due to the very large file sizes, many of these translations would tie up computing resources and personnel for prohibitively long periods of time.

TPM was designed to automate any manual, time-intensive batch process or Back Office activities that have historically created bottlenecks for manufacturers. TPM automates, schedules, manages and controls these processes and can be set up to process these tasks during off-hours when most computers and workstations sit idle.

Both MTU and Cosma have reaped significant time and manpower savings as a result of incorporating TPM for automated data translations. Before automating the process at Cosma, the company had five people performing these time-consuming translations. Today that number is down to two people with hopes of reducing that further. When requests for data come in, the data coordinators simply drag and drop the files to the TPM job queue. TPM processes translations on a dedicated server 24 hours a day.

"They are now batching off 25, 50 or 100 files to the server, and then they are going about doing other things," says Dave Truchan, director of Information Technology at Cosma. "I'd be reluctant to say it's a 100% improvement but it almost is, and our overtime is almost non-existent. What used to be considered

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good to get a two-day turnaround, we're now doing in four to six hours. Our turnaround time now is phenomenal because the data coordinators are doing what they need to do all the time, instead of waiting for their computer to complete a translation. That's been the biggest benefit."

**Pricing and Availability:** Theorem Process Manager is currently available. To find our more information and obtain current pricing, please contact the company at: 513-576 1100 or submit an inquiry on the company's web site at <http://www.theorem.co.uk>

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## ***CPS Energy to More Effectively Design and Better Manage Substation Infrastructure with Bentley Software***

3 November 2008

Bentley Systems, Incorporated announced that CPS Energy, the largest combined electric and gas utility in the United States, is adopting Bentley software to fully automate and streamline workflows associated with the design and management of power transmission and distribution infrastructure, including 87 substations. Going forward, CPS Energy will more effectively and efficiently design substations directly in 3D using [MicroStation](#) and better manage more than 23,000 existing CAD drawings related to substations using the [ProjectWise](#) collaboration system. In addition, using Bentley's substation layout software, CPS Energy will automate all substation layout functions, including the production of drawings, the generation of bills of materials, standards-based design, and the management of CAD, raster, hybrid, and other substation information in databases. As a result, the utility will be able to reduce the overall cost of building new substation infrastructure and maintaining existing infrastructure throughout its lifecycle, and more easily recruit and retain new engineering talent.

"We initiated this project to bring our working practices into the 21st century," said David Luschen, CPS Energy director, transmission and substation engineering. "The changes we are implementing will enable us to handle more projects with the same resources. It's all about getting more done more efficiently. I fully expect this project to transform the way in which CPS Energy designs and manages our substation infrastructure. We will have easier access to existing drawings, enjoy streamlined workflows and improved version control, produce more accurate bills of materials, and save costs in construction through the avoidance of project change orders."

Luschen continued, "At the same time, this advanced technology will help us attract new talent into the organization to help us design and manage our ever-expanding substation infrastructure. These young engineers want to use the latest software tools available, including those that can provide fully automated workflows supported by effective enterprise software systems."

The first phase of the project – putting the existing library of substation infrastructure CAD drawings into ProjectWise – has been accomplished. The second phase involves adding the drawings covering the wider transmission infrastructure. Eventually, all new designs will be managed in ProjectWise for both version control and effective server-side archiving. ProjectWise access controls prevent more than one person from editing the same file at the same time, which reduces the volume of unnecessary rework. Further, the whole project team can easily search within ProjectWise for any relevant criterion, such as name of designer, location, material type, or project year.

By using MicroStation to design directly in 3D, rather than relying on initial hand-drawn sketches and 2D CAD drawings, the design process will be shorter and produce more accurate engineering drawings. In addition, the utility will be able to produce more accurate cost estimates and bills of materials. To

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ensure that bills of materials are current, Bentley's substation layout software will periodically import materials and Configurable Standard Network (CSN) data from SAP's Project Systems module.

In addition, the [CPS Energy](#) project teams will be able to use the 3D model to:

- Support public presentations that show the impact of new substation infrastructure on the local environment, speeding decision making,
- Detect clashes and interferences before design sign-off, avoiding construction-stage change orders that can cost tens of thousands of dollars each.

For more information about MicroStation, visit the [MicroStation product line page](#). For more information about ProjectWise, visit the [ProjectWise product page](#). For more information about Bentley's substation design capabilities, visit the [Electric Substations page](#).

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## ***Delcam's PowerMILL Specified by India's Largest Toolmaker***

3 November 2008

India's largest commercial toolmaker, the Tooling Division of the Godrej Group, has selected Delcam's PowerMILL as its preferred CAM system. With more than 60 years' experience in the design, machining and inspection of precision tools, the Tooling Division at Godrej is also one of the country's most sophisticated manufacturers. To maintain its competitive position, the Division has invested in the latest technology, equipping itself with extensive CAD/CAM facilities and advanced CNC machines.

The Godrej Group is one of the largest privately-held industrial corporations in India. The organisation has ten major business divisions, which manufacture and market a wide range of industrial and consumer products.

The Tooling Division caters to the varied tooling needs of all these industries but has a pronounced emphasis on the automotive industry. It concentrates mainly on plastic moulds, die-casting dies, sheet-metal dies, progressive tools and lamination dies, mainly made from tungsten-carbide and high-strength steels. The Division is also engaged in designing and manufacturing special-purpose machines and precision-machined components for the engineering industries.

The introduction of PowerMILL has enabled Godrej to reduce programming times by between 40% and 50% when compared to the CAM packages that were used previously. "Delcam's PowerMILL has maximised the productivity of our new machines and thus has increased the rate of return on our investment. After comparing the results with our previous systems, Delcam's software has not only improved our programming efficiency but has also improved our machining productivity," said Ravi Singh, Senior Manager – CadCam in the Tooling Division. "These benefits have come without any compromise on the mould finish, the geometric accuracy or the visual quality of our products."

"A good CAD/CAM system also requires the right backup and support," added Mr. Singh. "The real secret to Delcam's success is its support. The staff at Delcam India have always responded quickly and been very helpful. They have put in a lot of effort to support us in all kinds of ways."

"The increased use of more complex machining techniques has made it essential for Godrej and Delcam to work together closely. In today's global competitive scenario, it is imperative that not only the quality but also the cost and delivery should be addressed with equal vigour," said Mr. Singh. "We have become Delcam's largest customer in the Mumbai region. Being a prominent user of Delcam, we are able to

achieve various improvements which suit typical toolroom needs.”

“Godrej is extending its long-term relationship with Delcam. After experiencing the quality of software and support provided by Delcam, we have increased steadily the number of PowerMILL seats. In addition to that, we are looking to further enhance our systems by evaluating software such as Delcam Electrode, for easy and flexible electrode manufacture, and FeatureCAM, for quicker and more-automated programming of our 2D parts,” Mr. Singh concluded.

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## ***Domodedovo Technique Chooses IFS Applications for Aircraft MRO Management***

6 November 2008

IFS and Domodedovo Technique Company Limited, one of the leading maintenance and reengineering service centers of foreign aircraft in Domodedovo Moscow International Airport, have signed an agreement to implement a Maintenance, Repair, and Overhaul (MRO) management system.

Domodedovo Technique Company Limited is a subsidiary of East Line Group that specializes in services for cargo and passenger airlines, airports, and other non-aviation activities in Domodedovo Moscow International Airport. In 2007, the independent research company Skytrax rated Moscow International Airport Domodedovo as one of the three best airports of Central and Eastern Europe.

“International and domestic competition in the aviation industry, coupled with rigid international aircraft maintenance quality standards and regulations, required the implementation of an MRO management information system. We have chosen the solution offered by IFS, which supports our business processes and fully complies with international aviation standards and regulations,” Vladimir Ryabov, Managing director of Domodedovo Technique Company Limited said.

IFS was chosen from a list of other leading global business applications suppliers. The decisive factor for choosing IFS was that it offers best-of-breed aviation MRO functionality that works as part of a larger, enterprise-wide solution. IFS has a skilled industry team with successful projects in aviation in Russia and abroad. Alexander Vorotnev, Project Manager from Domodedovo Technique Company Limited mentioned that “the IFS Applications MRO system was the only one to fully comply with the submitted requirements.”

Leonid Viktorov, Managing Director of IFS Russia and CIS said: “Signing this new contract in the aviation sector is a testament to our continued focus in this market segment. IFS considers cooperation and expansion within the civil aviation industry as one of its key targets.”

### About Domodedovo Technique Company Limited

The center for maintenance and reengineering of foreign aircraft—Domodedovo Technique Company Limited - was established using the facilities of the Domodedovo Moscow International Airport Aircraft Maintenance Base. Domodedovo Technique Company Limited is the only Russian company maintaining foreign aircraft whilst remaining unaffiliated with any airline. Therefore, Domodedovo Technique Company Limited is able to propose their services to all airlines and operators.

Domodedovo Technique Company Limited provides aircraft maintenance services as well as additional engineering and technology support services, operations planning and management, procurement, and logistics.

The company employs over 300 people, including 60 certified engineering specialists. Many employees

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have over 10 years of experience in the maintenance industry. The ongoing training and exchange programs with leading Russian and foreign manufacturers enable employees to acquire advanced skills in technical and technology solutions.

Transaero, KrasAir, WIM Avia, KD Avia, ORENAIR, UTair, Air Berlin and Gazpromavia are just a few examples of the company's current clients.

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## ***Ford Motor Company Selects Endeca to Help Reduce Materials Costs, Consolidate Parts Across Car Platforms***

6 November 2008

[Endeca Technologies, Inc.](#), announced that Ford Motor Company, has selected and deployed Endeca's [Spend Analysis solution](#), built on the Endeca® Information Access Platform (IAP). Launched in late summer 2008, the solution supports a corporate initiative to reduce direct material costs and identify opportunities for parts consolidation and efficiencies for existing and new vehicle programs. The Endeca solution integrates data from more than seven different source systems. These include purchasing, finance, supplier, engineering, and part catalog applications, offering sourcing professionals 360-degree visibility of part and supplier related data. The solution will also serve to improve collaboration between engineering and sourcing professionals by offering first-of-their-kind tools to evaluate the complex tradeoffs that occur during the new product design process. As a result, key decision makers have immediate access to information that had previously taken weeks or even months to gather and analyze.

The new Endeca application – which combines search, business intelligence and Guided Navigation® capabilities into a single experience – powers Ford's Global Commodity Hub, a portal which offers one-stop access to parts, program, supplier, technical attribute, and cost target data.

“[Ford](#) offers a great example of how information visibility can be used to create new operational efficiencies and competitive advantage in the face of shifting consumer demand and new economic realities,” said Steve Papa, CEO of Endeca. “Manufacturers are among the most information rich of all enterprises, but the ultimate value of this information remains limited by legacy systems that were never architected for such integration, exploration and discovery. We are now witnessing the beginning of a shift to a whole new class of information architecture that will unlock this latent value.”

Ford Motor Company joins a growing list of discrete manufacturing companies, including Boeing, John Deere, Harris Corporation, and LG Electronics, who rely on Endeca's [Manufacturing solutions](#) for business-critical strategic sourcing, engineering, warranty and supply chain initiatives. These organizations are using Endeca to create applications that bring together data from numerous source systems and provide information visibility and access benefits not possible through legacy search, business intelligence, database or packaged enterprise applications.

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## ***G'Ree'n Chair Developed in SolidWorks Software Uses Recycled Video Game Plastic***

3 November 2008

A small U.K. company is using SolidWorks® 3D CAD and SolidWorks Simulation design validation software to develop a stackable chair made from video game consoles, Dassault Systèmes SolidWorks

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Corp. (DS [SolidWorks](#)) announced. Aiming to put a dent in the millions of tons of plastic waste generated every year, the Ree chair incorporates the plastic from nine video game consoles and is the first chair of its kind in the U.K. to use 100 percent recycled plastic from a single source. Every chair prevents 2.4 kilograms of plastic from entering the landfill.

Designed and manufactured in the U.K., the Ree chair is at the forefront of compliance with the European Union's Waste Electrical and Electronic Equipment (WEEE) directive, which makes proper disposal of WEEE materials the responsibility of manufacturers. The chair is the brainchild of Christopher Pett, founder of sustainable product development company Pli Design Ltd. in London. He came up with the idea at the Eden project in Cornwall while discussing the possibility of reusing plastic from waste electronics products with other manufacturers – including Sony Computer Entertainment Europe.

Pett contacted specialist sustainable design consultancy Sprout Design Ltd. to develop an eco-friendly chair that is ergonomic, affordable for commercial, education, and domestic markets, and made from 100 percent recycled plastic from PlayStation®2 games console casings. Pli expects to ship 3,000 chairs, representing 7.5 tons of recycled plastic, in the next year. [Click here](#) to listen to a podcast interview with Pett.

“The final design is quite complex, though each component by itself is fairly simple,” said Guy Robinson, engineer with Sprout. “There were a lot of details to get the geometry and ergonomics right, such as how the stiffness and flex of the ribs responded to the body, and how to make the clips tamperproof yet easy to disassemble, etc. SolidWorks allowed us to tweak the design of the individual components while showing how this affected the whole product to get it right. We would have abandoned this concept early on if we didn't have that flexibility.”

Sprout used SolidWorks SimulationXpress to ensure the chair would be strong enough to support sitters without over-engineering the amount of plastic in the seat's ribs, reinforcing the sustainable design theme. Both Pett and Robinson hope the Ree Chair sets a precedent for electronics manufacturers around the world.

“The Ree Chair is a great example of innovation and creative design thinking around sustainability issues. By combining quality, style, and affordability with low carbon footprint, the Ree chair project demonstrates that sustainable design also makes good business sense,” said Chris McManus, the U.K. and Ireland country manager for DS SolidWorks Corp. “DS SolidWorks is committed to helping manufacturers discover new ways to achieve sustainable design to reduce their environmental impact.”

[Sprout Design](#) and Pli rely on authorized SolidWorks reseller [NT CADCAM](#) for ongoing software training, implementation, and support.

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## ***InnoCielo Meridian Enterprise and FDA Module Selected By Genzyme***

5 November 2008

BlueCielo ECM Solutions announced that Genzyme Corporation, one of the world's foremost biotechnology companies, has chosen BlueCielo to implement and validate its innovative ECM solution, InnoCielo Meridian Enterprise and the FDA Module, at four of the company's worldwide locations. These locations include Framingham, MA, USA; Suffolk, United Kingdom; Waterford, Ireland and Geel, Belgium. Genzyme continues to demonstrate its leadership by implementing sophisticated

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technology that will take it to new levels of efficiency and compliance. The FDA Module provides the technical controls related to compliance with 21 CFR Part 11 for their engineering drawings.

With many established products and services helping patients in nearly 90 countries, Genzyme is a leader in the effort to develop and apply the most advanced technologies in the life sciences. Founded in Boston in 1981, Genzyme has grown from a small start-up to a diversified enterprise with 2007 revenues of \$3.8 billion and 10,000 employees in locations spanning the globe.

"We continue to see a rapid adoption of the InnoCielo product suite in the biotechnology and pharmaceutical sectors," says Martijn Janmaat, BlueCielo's CEO. "Genzyme is a great example of the growing number of global life sciences companies that are bringing products to market faster by optimizing their processes in managing their critical engineering content. With efficient validation processes and the availability of accurate engineering information to the relevant people throughout the enterprise, companies are now much better able to manage and share all required good manufacturing practices (GMP) documentation and comply with the FDA's 21 CFR Part 11 regulation much more easily."

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## ***Lloyd's Register Standardizes on MSC.Software's MD Nastran to Achieve Increased Simulation Accuracy***

4 November 2008

[MSC.Software](#) announced that its multidisciplinary simulation tool, MD Nastran, has been selected by Lloyds Register, one of the world's leading companies in risk management and quality solutions for Shipping and other industries. Lloyd's Register will leverage their existing MSC.Software investments, extending them to a best-in-class enterprise simulation solution that will increase capability and significantly increase overall simulation productivity and efficiency.

Although most well known for its origins in the shipping industry, the Lloyd's Register Group's mission is to establish, uphold, and apply high technical standards of design, manufacture, construction, maintenance, operation and performance across many industry sectors. Today Lloyd's Register's client interests include government, industrial institutions and companies, in shipping, oil & gas production, power, rail and general engineering. The company has a long history of simulation using MSC.Software's Engineering Products portfolio. Under the current agreement Lloyd's Register will upgrade to MSC.Software's MD Nastran platform. By combining a number of industry standard analysis applications into a single multi-disciplinary solution, MD Nastran allows engineers to more accurately capture the true system level performance and behavior of real-world products in their true working environments. MD Nastran's common data model also increases the computational efficiency of coupled solution process, and eliminates the errors traditionally associated with data translation between point CAE solutions.

"Creating a standardized environment based on MSC.Software's MD solutions has a dual benefit, allowing us to benefit from the latest simulation technologies, while simultaneously leveraging our existing investment", said Stephen Hand, CIO Lloyd's Register. "With MD Nastran we will eliminate redundant effort, reducing simulation time while improving simulation accuracy and productivity, attributes which will positively impact our business and enhance our reputation as thought leaders within the world market."

"Industry adoption of MD Nastran continues to accelerate, and major upgrades such as that announced

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at Lloyd's Register, clearly demonstrate the success of multidiscipline simulation as a foundation technology in a wide variety of organizations and industries," said Amir Mobayen, Executive Vice President Worldwide Sales & Services, MSC.Software. "Our customers operate in rapidly changing and highly competitive markets. Our mission is to provide industry proven software and services that give our customers lasting competitive advantage."

## About Lloyds Register

Lloyd's Register provides independent assurance to companies operating high risk capital intensive assets in energy and transportation to enhance the safety of life, property and the environment, thereby helping our clients ensure safe, responsible and sustainable supply chains. The Group comprises charities and non-charitable companies, with the latter supporting the charities in their main goal.

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## ***LMS Helps the Liebherr Mining Equipment Co. Meet the Design Challenges Behind the World's Largest Diesel-Electric Truck***

7 November 2008

[LMS](#) announced that LMS technology has played a critical role in the development of the Liebherr Mining Equipment Co's T282B, the world's largest diesel-electric mining truck currently in production. Liebherr counted on LMS multibody and durability solutions to build a vehicle tough enough to withstand harsh mining conditions while providing maximum load capacity.

One of the primary challenges when designing an efficient vehicle this large is that total vehicle weight cannot exceed tire capacity. Every kilogram shaved from the vehicle structure goes back into payload capacity. A market-leader, the T282B is 12% lighter than other comparable mining trucks yet rugged enough to withstand the world's mining environments. It also features the lowest operating costs per loaded tonne.

"Mining trucks are some of the most abused vehicles in the world," said Liebherr Mining Equipment Co. Analysis and Simulation Manager Dr. Vladimir Pokras. "At many of these mines, operators drive as fast as they can over refrigerator-size boulders and holes as big as bathtubs to haul as many loads as possible."

Engineers at the Liebherr Mining Equipment Co. needed to integrate advanced features like the differential wheel control system into a lightweight yet highly durable and efficient diesel-electric truck. To do this, the team at the Liebherr Mining Equipment Co. relied on LMS multibody dynamics technology for full-vehicle simulations to study the truck's behavior on various terrains with a variety of load examples, including acceleration, braking, turns, bumps, holes, washboarding, up and down steep grades and backing into barriers.

"LMS multibody dynamics serves as a central point where all the designs of individual major components and subsystems come together into a single unified full-vehicle model," Dr. Vladimir Pokras explained.

After a number of simulation iterations, multibody loads for the final design were entered into LMS durability software to determine the fatigue life of the critical structural components and assemblies such as the frame and axle box. Tight integration between LMS multibody and durability software enabled fatigue life studies to be performed quickly and accurately, thus providing engineers valuable feedback for developing lightweight parts to withstand expected operational loads without under or over-

designing them.

James Whitfield, Liebherr Mining Equipment Co. General Manager of Research and Development, concluded, "It's not impossible to design mining trucks without using simulation – other companies do it all the time. But the only way to design a market-leading, optimally weight-efficient truck is with advanced simulation tools like LMS durability and multibody software solutions. We can't maintain our market leadership any other way."

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## ***SAP Automotive Software Solution Helps Drive Vodafone McLaren Mercedes Team to Formula One Victory***

7 November 2008

SAP AG announced that its SAP® Business All-in-One for Automotive solution provided critical data to the Vodafone McLaren Mercedes team as Lewis Hamilton clenched his victory in Sunday's Brazilian Grand Prix. The team used it.automotive, a qualified SAP Business All-in-One solution from itelligence, an SAP business partner. During the 18 race season, the technology maintained information on the V8 engines of the Vodafone McLaren Mercedes 2008 cars, enabling the team to be fully alert to the performance of the cars' engines. The win makes Hamilton Formula One's youngest champion to date.

Cutting-edge computer technology is playing an ever more crucial role in the world of car racing, as the slightest change can result in dramatic performance effects. SAP Business All-in-One for Automotive retrieves exact information in real time, anywhere in the world, for more than 3,000 engine components of each of the Vodafone McLaren Mercedes cars to help ensure the team's optimum performance on race day.

In addition, the solution:

- Provided a single access source for data on all engine components and their individual status, which allows the Vodafone McLaren Mercedes team to constantly review and develop components of the engine.
- Reduced the need for time-consuming diagnostic checks, thereby lowering costs for the team as it focused internal resources on technical improvements.
- Improved communication and collaboration between user groups.
- Enabled greater stock management, resulting in less waste.

As a long-time partner of Vodafone McLaren Mercedes, SAP is proud to provide its advanced software as an integral part of the team cars and their performance. In addition to contributing to the Formula One Championship win this past weekend, Vodafone McLaren Mercedes uses SAP solutions to improve collaboration among its project groups and integrate all engine design, development and production data, as well as the complete logistic supply chain and documentation, in a single, enterprise-wide system (please see October 4, 2004 press release titled, "[Team McLaren Mercedes Accelerates Formula One Operations With SAP](#)").

For more information on SAP's comprehensive set of solutions designed for automotive manufacturers, suppliers, and sales and service organizations worldwide, please visit <http://www.sap.com/industries/automotive/midsized/index.epx>.

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See also the SAP TV video about the SAP solution used by the Vodafone McLaren Mercedes Team at <http://www.sap-tv.com/?a=3263&l=1>.

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## ***Sescoi's WorkNC 5-Axis and Auto 5 - a Competitive Advantage at ALLIO***

24 October 2008

With its passion for the industry, handed down from father to son, and a solid reputation which has been built over the years, a “ French success story” would be an apt description for the ALLIO Group whose 2 production centers’ activities range from prototypes to tooling manufacture.

Since 1928, the Company has been one of France’s leading state-of-the-art technology adopters and has evolved over the years into a Group with 180 employees spread across 5 plants in France and Romania, and an annual turnover of Euros 25 million.

With two main areas of activity, the Group serves various industrial sectors including the aeronautic, automobile and shipbuilding industries. The Group has three engineering centers in the Paris region that work together in tight synergy enabling the Group to offer its customers a full range of services.

According to Group CEO, Guillaume Allio "We will eventually be able to offer a complete product industrialization program. Our current services start with the CAD definition of a part through to the tooling equipment required to manufacture and build composite parts. Allio’s Ateliers Garcia is a part of this technological chain which makes Allio a forward looking Group with a solid past."

Located in Tremblay near Paris, Ateliers Garcia is the Group’s model and toolmaking unit, specializing in style validation and aluminium tooling for the automobile industry. It has 35 employees and a turnover of Euros 5 million. Acquired by the ALLIO Group in 2000, it manufactures molds, models and mock-ups and has been equipped with NC machines and a CAM system for many years. Philippe Quint, Atelier Garcia’s CAD/CAM manager explains, “In 1990, we had two CAM solutions but advances in machining and surfacing conditions led us review the technology we had in place. We put our trust in WorkNC which quickly enabled us to generate more toolpaths within a single application than with the previous two put together."

Guillaume ALLIO goes on, "Our ambition has always been to employ state-of-the-art technology, not too ahead of its time, but above all not old hat. We set up a CAM technology watch team which has kept us posted on all the latest developments within this field, whoever the software vendor. WorkNC remains the best-fit system for our activity and SESCOI understands our requirements better than any other vendor. We speak the same language, they know our activity and both companies realize that we mutually benefit from close collaboration. WorkNC evolves according to our requirements and not just because of good marketing - we also appreciate SESCOI’s comprehensive services and our partnership status means that we progress matters quickly."

The first WorkNC license was installed at Ateliers Garcia in 1990. At that time it was the only system that enabled users to automatically perform remachining cycles that significantly increased tool quality and reliability. The second license was purchased in 1995 to meet the increasing CAM workload, then in 2005 another two licenses were purchased with the 5-axis machining option. Philippe Quint states, “Machining centers were becoming faster and faster and we needed to optimize our machining toolpath resources. Initially the 5-axis capability was acquired to satisfy one particular customer’s needs for trimmed parts." In 2008 a fifth floating license was purchased to allow NC machine operators to modify

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and create toolpaths directly on the shopfloor. Ateliers Garcia now has 7 NC machining centers, of which 6 are 5-axis machines, and 5 WorkNC licenses.

"5-axis machining is a complementary strategy at Ateliers Garcia, it's the operator who chooses either 3+2 or 5-axis, according to his experience and the part to be machined," advises Philippe QUINT. "5-axis machining requires the machine to be perfectly set up, which underlines the importance of the CAM system being able to take into account the various machines. WorkNC Auto 5 allows us to switch from one to the other very quickly and it's a great advantage. We therefore adapt according to the availability of the machines and our workload and not according to the CAM system."

According to Philippe QUINT , the advantages of WorkNC 5-axis machining are as follows:

- User-friendliness (easy to learn with minimum training requirements - only two days were required before generating the first toolpaths).
- Reduced cycle times (by up to 25%)
- Better Quality (surface finish, a single toolpath avoids marking the part).
- Fast toolpath programming, especially for existing remachining toolpaths (no need to recalculate everything).
- Reliability (collision management and simulation, including machine kinematics).
- Development of employees' jobs and skills.

In a nutshell; WorkNC 5-axis machining enables significant productivity gains in many areas.

Philippe Quint concludes "A few precautions must be taken to ensure the success of 5-axis machining; we must firstly ensure that the toolpath is correctly prepared and verified. Then we define the machine postprocessor and run a simulation, it's an essential step. With the single finishing toolpath set up, we then reduce the cycle time. 5-axis machining is not the solution to all our needs, we switch from one technique to another very quickly, depending on what's to be machined. It's the software which adapts itself to our requirements and that's an important advantage."

Ateliers Garcia has the following plans in the pipeline:

- The expansion of the fields of applications for 5-axis technology as the company gains ground experience.
- The provision of 5-axis CAD/CAM training for all programmers.
- Testing on different parts such as aluminium molds for example.

Guillaume ALLIO concludes: "5-axis CAM machining is part of Group strategy and a major advantage within our application specific processes. It enables us to optimize and strengthen our various fields of expertise and operational synergies. Longer term, it will be incorporated within the global processes managed by our ERP system (Sescoi's WorkPLAN) in order to validate and secure all our processes and information flows."

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***Tower Automotive Invests in Dassault Systèmes DELMIA Body-in-White***

6 November 2008

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Dassault Systèmes ([DS](#)) announced that [Tower Automotive Holding GmbH](#), based in Bergisch Gladbach, Germany, will soon implement its DELMIA Body-in-White solution to optimize planning and manufacturing processes associated with body and frame construction. The German subsidiary of Tower Automotive, headquartered in Novi, Michigan, develops and produces a wide range of parts employed in the construction of vehicle bodies, including stampings and assemblies for bodies and frames.

The precise welding and assembly of stamped metal body components play a critical role in the quality of automotive body production at Tower Automotive. In the past, any simulation of the sheet metal joining processes has been performed by outside companies using sophisticated models. From this point on, Tower Automotive plans to run its own simulation using the Body-in-White Metal Structure module on all new and ongoing projects that use complex manufacturing processes. A particular point of emphasis will be the exact rescheduling and validation of current production lines for both new and modified products. The objective is to efficiently design, modify, and manufacture components through a more straightforward procedure than has been used thus far.

“Until now, we entered components and joining points individually in MS Excel spreadsheets,” says Ralf Krähe, the head of Program Management and Assembly Engineering at Tower Automotive in Europe. “As a result, the data wasn’t interlinked. Instead, we simply had various systems, and it took a lot of work to combine them.”

With this solution, all data is integrated into a single DELMIA hub repository. The automotive supplier is anticipating that the DELMIA solution will substantially optimize the many processes involved. “Some of the things we expect are a reduction in modification costs and the ability to quickly generate high-quality simulations of critical areas in the production lines for individual assemblies,” Krähe explains.

DELMIA Body-in-White is a scalable solution that enables users to create, modify, and validate automotive body-in-white planning for lines and stations in a virtual 3D environment, prior to physical production. The solution’s modular approach allows users to merge different plan segments into their systems at any given time. These partial segments can then be integrated into one complete process later on.

In addition to the Metal Structure module, Tower Automotive plans to implement other modules to enhance the independence of its workflow processes so product modifications and manufacturing processes can be validated, simulated, and evaluated directly. “As a result, we will be able to respond much more quickly to the OEM’s requirements,” says Krähe confidently. The company will benefit from processes that are both improved and simplified, and consequently its manufacturing operations will be more efficient and cost-effective.

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## ***Ubixum Adopts Synopsys Galaxy Custom Designer Mixed-Signal Implementation Solution***

3 November 2008

Synopsys, Inc. announced that Ubixum has adopted Synopsys' Galaxy Custom Designer™ solution, the industry's first modern-era mixed-signal implementation solution. Ubixum needed a solution that would address the custom design implementation requirements of their latest advanced image sensor array for biomedical applications while meeting time-to market schedules. The Custom Designer toolset fit easily into the Ubixum flow and delivered initial results in just a few days, demonstrating significantly

improved productivity with higher quality.

"We were able to easily deploy Custom Designer in our design flow, and it produced better results than we had achieved before," said Keith Fife, cofounder of Ubixum. "Our design team became immediately productive using the Custom Designer schematic editor and layout editor. The tool is modern, very well architected and integrates flawlessly with HSPICE, Hercules and Star-RCXT. We were able to design, implement and verify results within one week of using the tool. Custom Designer is intuitive to use and we expect to gain even more productivity benefits as we use it for future designs."

Built from the ground up, Custom Designer was architected for productivity. Key modules include a schematic editor featuring on-canvas editing and dynamic net highlighting. The simulation environment provides a common use model allowing access to Synopsys simulators, including the HSPICE®, HSIM™ XA, NanoSim® XA and WaveView Analyzer simulators. The layout editor features a real-time preview of P-Cell parameter changes, and the results from Synopsys' Hercules™ DRC/LVS and Star-RCXT™ parasitic extraction tools are dynamically available within Custom Designer. In addition, Custom Designer enables complete data transparency with Synopsys' IC Compiler physical implementation solution, allowing the exchange of vital information during floorplanning, placement, routing and final chip editing to reduce time-consuming design iterations.

"Ubixum's successful adoption of Custom Designer underscores Synopsys' commitment to do for custom design what we have done for digital implementation, helping designers address modern AMS-era challenges with efficiency," said Bijan Kiani, vice president of Product Marketing for Design and Manufacturing Tools at [Synopsys](#). "We look forward to working closely with companies like Ubixum to enable their full use of Custom Designer to achieve higher performance and productivity, and to help them realize a competitive advantage."

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## ***ViewPlus Technologies Replaces Previous 3D CAD Solution with PTC CoCreate***

4 November 2008

PTC announced that ViewPlus Technologies, a leading manufacturer of assistive technologies including Braille printers, has standardized on [CoCreate](#) solutions to speed time to market and increase its competitiveness. CoCreate, PTC's explicit CAD, PDM & collaboration software provides companies with a lightweight and flexible approach to designing products. Using [CoCreate Modeling™](#), ViewPlus reduced its design process by six months, enabling the company to bring its highly specialized products to market in less time.

Because its primary customers are educational institutions, the product development schedule at ViewPlus is externally driven by the fiscal year of the institutions. Failure to meet fiscal year deadlines can result in lost orders, which impact achievement of business goals. Additionally, ViewPlus's customers often pre-order equipment so product development delays that impact shipments can result in customer satisfaction issues. Frustrated with its previous 3D CAD solution, which, ViewPlus found difficult to use and severely limited in functionality, the company sought a replacement that would enable it to quickly create 3D CAD models and support integration with 2D drawings to help accelerate product development.

After conducting a comparative benchmark between three competitive solutions, ViewPlus chose CoCreate as its 3D modeling standard, replacing its previous solution. CoCreate provides support for concurrent engineering enabling multiple engineers to work on a design at the same time without risk of

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overwriting each other's work. Additionally, with CoCreate, new drawings are immediately updated as revisions to prototypes are made, eliminating the need to redraw the design from scratch. This enabled [ViewPlus](#) to save one week of drawing time during each prototype revision cycle. Further, CoCreate allowed the design team to incorporate unexpected changes late in the design process without jeopardizing the development schedule.

"CoCreate delivers the capabilities that we need to meet the development needs of a highly specialized product," said John Dion, director, hardware engineering, ViewPlus Technologies, Inc. "Our previous solution was difficult to use and didn't provide the functionality to support our requirements. CoCreate allows us to quickly make and modify new parts which ultimately shortens our development cycle and helps us to meet our critical delivery deadlines."

"Special equipment manufacturers like ViewPlus Technologies rely upon the CoCreate easy to use explicit modeling approach to provide the flexibility needed to react quickly to customer requests and meet increasingly short deadlines," said Martin Neumueller, director of product management, CoCreate products, PTC. "CoCreate enables design teams to work collaboratively and increase the efficiency of the design process, resulting in faster time to market and competitive advantage."

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## ***Yunique Solutions to Provide Bon-Ton Stores, Inc. with PLM Software Solutions across Private Brands Operations***

4 November 2008

Yunique Solutions Inc. (<http://www.yunique.com>) announced that Bon-Ton Stores Inc., the York, PA-based retailer of fashion apparel, accessories, footwear, cosmetics, and home furnishings, will implement its plmOn™ product lifecycle management (PLM) and srmOn™ supplier relationship management software solutions across their North American private brands operations. With the first phase of implementation expected to go-live in January 2009, the department store operator plans to systematically expand use of the system to integrate more than 100 employees with its vendor partners. The Yunique software will replace a 9 year old legacy PDM system to improve creation of technical product specifications, while also adding new system capabilities such as line planning, image management, vendor collaboration, and workflow and process management.

"We needed a PLM solution that could enable us to improve the efficiency of our entire private brand process," noted Chuck Gilreath, Vice President of Sourcing for Bon-Ton Private Brands. "Even though we had a PDM system, we were still relying far too much on email and spreadsheet programs to manage our process. We wanted software that would support all aspects of the development cycle and free-up our people to be more creative."

Gilreath continued, "In making the selection, we looked to address a wide range of technical requirements including areas like color approval and lab dips, image management, third-party compliance, lab testing, and vendor collaboration. But equally important to us was finding a solution that was visual and intuitive enough that our people would actually want to use it. After evaluating 19 different software products, we decided that Yunique not only was the best-fit solution for our current needs, but their vision for the future aligns closely with the way we want to grow."

Bon-Ton CIO Jim Lance added, "Yunique's technology structure fits well with our item management systems. The web-based platform allows us to conveniently share and collaborate on product information throughout our company and with vendor partners. The Yunique product will integrate well

with other systems to support automation to speed item and purchase order creation as well as accessing merchandise assortment planning placeholders to obtain color, size, and quantity information. The systems are scalable, flexible, and cost effective.”

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## Product News

### ***Agilent Technologies' Parasitic Reduction Tool Enhances RFIC Simulation Speed, Capacity While Preserving Accuracy***

4 November 2008

Agilent Technologies Inc. announced [Jivaro-for-GoldenGate](#), a parasitic model order-reduction tool designed for use with the company's GoldenGate RF simulator software. Jivaro-for-GoldenGate is expected to enhance RFIC simulation speed and capacity with negligible loss in accuracy.

“Efficiently handling circuit simulation with an increasingly large number of extracted parasitics has pushed the envelope of simulator technology,” said Paul Colestock, RFIC marketing manager with Agilent's EESof EDA division. “Unlike their digital counterparts, RFIC designers need to simulate circuits with self and mutual inductance in addition to parasitic resistance and capacitance. This creates a simulation-capacity requirement that is either unsupportable with current hardware or requires unreasonable simulation times. Combining GoldenGate with Jivaro-for-GoldenGate solves this problem.”

Jivaro-for-GoldenGate is designed in cooperation with [edXact](#), a company that provides high-precision, high-performance technology for backend physical verification. edXact's Jivaro-A netlist-reduction engine is the core of this new RFIC design software.

Tailored to the challenging demands of large, complex RFIC designs, Agilent's [GoldenGate](#) is the leading RFIC simulation and analysis solution featuring unique harmonic-balance capabilities. Combining Agilent's GoldenGate simulator with Jivaro-for-GoldenGate increases simulation capacity, reduces memory requirements and boosts simulation speed when simulating large parasitic-dominated post-layout netlists.

“Jivaro-for-GoldenGate fills the gap between circuit extraction and circuit simulation created by an increased number of parasitic components (resistance, capacitance, self and mutual inductance) required to model the physical reality of circuit interconnects, substrates or packages,” said Mathias Silvant, edXact president. “Jivaro-for-GoldenGate delivers simulation speed and capacity with negligible loss of accuracy by optimizing the parasitic models against the need to keep the accuracy of the netlist predictable at a very high level.”

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

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

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

Agilent's Jivaro-for-GoldenGate is available now, with prices starting at approximately \$30,000.

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## ***Bentley Announces V8i Software Portfolio for Infrastructure Professionals***

6 November 2008

Bentley Systems, Incorporated announced V8i, the most comprehensive software portfolio for infrastructure ever assembled in a single release. Encompassing products for all of the solution communities served by Bentley, the V8i portfolio leverages and extends core capabilities of its new interoperability platform to provide the breadth and depth of technology needed for fully integrated project delivery. V8i's interoperability platform enables Bentley applications to persist, share, and visualize infrastructure asset data in a common way, promoting collaborative workflows. The result is a project environment that combines flexibility, and scalability and a portfolio that offers engineers, architects, GIS professionals, constructors, and owner-operators choices across discipline-specific integrated software and services incorporated in Bentley solutions. Developed as a collective whole, the V8i software portfolio facilitates streamlined workflows among multiple disciplines and across project teams throughout the infrastructure lifecycle.

The benefits of V8i include increased information quality, enhanced infrastructure asset quality, improved operational safety, reduced project costs, and shortened delivery times. Among the many innovative core capabilities of V8i are intuitive design modeling, interactive dynamic views, intrinsic geo-coordination, and incredible project performance.

“We are confident that the release of V8i, which began today and will be completed over the next 60 days, will introduce significant innovation and workflow improvements that set new benchmarks for infrastructure professions in virtually every discipline,” said CTO Keith Bentley.

Said CEO Greg Bentley, “Our virtually concurrent release of this comprehensive portfolio of products is, by any measure in the software industry, an ambitious undertaking. Its timeliness is underscored by the importance of the challenges met by our users as they strive to sustain the world's infrastructure and address such critical issues as aging bridges, water system losses, energy and commodity supply, building efficiency, and environmental resilience.”

He continued, “We have developed V8i with these pivotal needs in mind, including the most critical challenge – the global shortfall in engineering resources in relation to infrastructure requirements. Moving emphatically beyond merely computer-aiding the production of traditional ‘deliverables,’ including design, drawings, and models, our mandate for the V8i portfolio has been to provide our users with the capabilities they need to increase their cost-efficiencies and maximize the return on their investments in innovation, empowering them to design, build, and operate better-performing infrastructure projects and assets.”

Two critical advantages of the V8i portfolio are intraoperability and interoperability. Together, they enable broader reuse of project and asset information generated during the design, construction, and operation of infrastructure, and enhance the ability of project teams to choose among multiple software offerings. The intraoperability occurs across and between tightly coupled V8i products without loss of information. The interoperability occurs across necessarily distributed projects where participants can now increase their choice of software offerings from Bentley, loosely but usefully coupled with the work of other practitioners using software based on DGN, PDF, DWG, ISO 15926, IFC, and other industry standards and related APIs.

Some of the key business benefits of V8i to user organizations include:

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- Infrastructure project improvements leading to lower total installed cost coupled with lower operating expenses,
- More efficient retrofits and modifications throughout an asset's lifecycle,
- A competitive edge in the face of increased global competition,
- Increased efficiency, safety, and reliability of infrastructure and the services it provides.

## **Core V8i Capabilities**

V8i's interoperability platform provides improved integration among Bentley products. This allows infrastructure professionals to take advantage of the following core V8i capabilities that are leveraged within the entire portfolio:

-- Intuitive design modeling lets users transition from conceptual modeling and visualization to fully complete architectural and engineering models in a single environment. For example, the new GenerativeComponents, surface, and push-pull modeling tools enable teams to capture innovative thinking and transition rapidly from concept to completion. In addition, the parametric and associative modeling tools allow users to iterate more easily on design alternatives and answer more questions earlier in the process. Through the flexibility of this powerful toolset, infrastructure professionals can timely explore and embrace innovations to improve the performance of the projects and assets their teams deliver.

Additionally, the new Luxology rendering engine incorporated in the MicroStation product and all MicroStation-based applications provides near-real-time rendering in the design application. This saves time and improves the quality of rendered images for stakeholder review and buy-in.

-- Interactive dynamic views make working in 3D much more interactive and more informative. V8i builds on and extends existing approaches to solving the problem of drawing coordination for complex models by actively supporting the workflows of distributed multidisciplinary teams all working on the same project. V8i goes one step further by helping users simplify the 3D model creation process. Employing something called "display sets," V8i users can easily change the way different parts of a 3D model are displayed in the same working view to interactively visualize and resymbolize 2D and 3D designs in real time.

-- Intrinsic geo-coordination assures that all V8i projects include the real-world location of the infrastructure site, and inherit the useful reference data already diversely available. This capability lets infrastructure professionals synchronize and coordinate true and projected coordinate systems, use a single interpretation system for universal and industry-standard reference sources, and reduce the risks of errors on site.

-- Incredible project performance lets users work faster and collaborate more effectively to make the process of work sharing across multiple, distributed offices easy and efficient, even for the world's largest infrastructure projects. V8i delivers a series of productivity and accessibility gains through accelerated file transfer between locations - with 10x performance gains being the norm for average files sizes - and full read/write integration with Microsoft SharePoint provided for improved overall usability.

## **What Users Are Saying About V8i**

“Saving time and working faster are really what it’s all about. V8i makes it easy to move around projects and find precisely what we need. We can find the right design or sheet and get working fast with Project Explorer, and interact with models within drawing sheets with reference activation. There

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are so many ways to find design information, including dynamic views and saved views. In addition, V8i allows us to work seamlessly with DGN or DWG file formats.” – Stuart Willows, Wm Saunders Partnership LLP, a U.K. multidisciplinary practice of architects, interior designers, project managers, structural and civil engineers, quantity surveyors, building surveyors, and CDM coordinators

“We’re eagerly awaiting ProjectWise V8i’s release to take advantage of the new Delta File Transfer technology. Preliminary testing has shown file transfer times can be accelerated by as much as 54x for large files and 3x for small files. These dramatic improvements will allow us to make more efficient use of the network among our 60+ offices, and provide significantly faster access for our external clients and sub-consultants.” – Mo Harmon, vice president, HNTB, a multidisciplinary infrastructure firm that provides planning, design, program management and construction management services for highway, toll road, bridge, airport, rail and water projects

“MicroStation V8i is a landmark release. Among its many enhancements and improvements, one of the most beneficial from a production standpoint is reference activation. It saves me loads of time and helps me create more accurate drawings by allowing me to easily and instantly fix any errors on referenced models.” – Matthew VanSweden, Integrated Architecture, a full-service practice offering expertise in all aspects of architecture, engineering, planning, and interior design

“While MicroStation V8i promises many great new features, we are most excited about dynamic views. In addition to producing 2D documents that are live representations of our 3D building information models, the ability to interactively define sections through our BIM models while symbolizing the information uniquely in different areas with display styles will enable us to visualize our designs in ways that we hadn’t been able to conceptualize before. Kudos to Bentley for making 3D design more interactive and more informative.” – Tim Grimm, design technology manager, LMN Architects, a full-service firm focusing on convention, office, mixed-use/retail, cultural, sports, urban and interior architecture

To find out what other users are saying about V8i, visit <http://www.bentley.com/v8iusers>.

## **V8i “Introductory Financing” Program**

In recognition of sudden global credit constraints, and to facilitate incorporating the best information modeling technologies into critical infrastructure initiatives – improving the economic performance of the projects and resulting assets – Bentley also announced a new financing program to accelerate adoption and return on investment in V8i. For new licenses purchased during the balance of 2008 (at Bentley’s standard competitive pricing), fees may be paid in three annual installments. Also, to expedite realization of V8i’s benefits for infrastructure, during the balance of 2008, users of Bentley software who are not presently subscribers to the Bentley SELECT subscription program may join SELECT without needing to pay the back fees that would normally pertain for periods of non-coverage.

Said Malcolm Walter, Bentley’s chief operating officer, “I am proud that Bentley is extending its tradition of leading the software industry in commercial innovation, at this time when the economic benefit of IT’s technical innovations are most needed, but the sudden dire financing environment would otherwise serve to thwart the capital outlays for the procurement even of productivity-enhancing software. As a privately held company without a debt burden, we’re able to offer the ‘Introductory Financing’ program for V8i as our contribution to ‘economic stimulus’ for our users and prospects. This initiative towards ‘software as a service,’ in economic terms, will enable infrastructure practitioners to adopt the best technology within operating budgets, for immediate return on investment – while sustaining infrastructure benefits for all!”

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Bentley unveiled the V8i software portfolio for sustaining infrastructure today during an event at The Ritz-Carlton, Philadelphia. The event was broadcast live around the globe and included demonstrations and presentations on the key advantages of V8i.

For more information about V8i, visit <http://www.bentley.com/v8i>. Current subscribers of Bentley SELECT may download V8i products as they are released at <http://selectservices.bentley.com> Others may contact a Bentley representative at [www.bentley.com](http://www.bentley.com) or call 1-800-BENTLEY.

## **Bentley Also Launches BE Communities**

In other news, Bentley today announced the official launch of BE Communities, a social networking site for professionals in the architecture, engineering, construction, operations, and GIS communities. BE Communities includes tools such as forums, blogs, resource galleries, and a wiki that allow members of the infrastructure community to connect, communicate, and learn from each other. Originally launched in beta during the BE Conference in May of this year, the BE Communities site has since been enhanced and updated. To access BE Communities, visit <http://communities.bentley.com>.

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## ***Cadence Expands Portfolio of System-Level Verification IP and SpeedBridge Adapters to Boost Acceleration and Emulation Performance***

3 November 2008

Cadence Design Systems, Inc. expanded its system verification IP (VIP) and Cadence® SpeedBridge® Adapters portfolio with a focus on transaction-based acceleration (TBA) and in-circuit emulation use models. The expanded Cadence portfolio focuses on standard protocols for the wireless, networking, storage and multimedia vertical markets, enabling system verification and validation engineers to ramp-up their environment in days, improving the final quality of their software and hardware for a low-risk path to first-working silicon with first-working software. The portfolio also reinforces the Cadence VIP leadership position in Open Verification Methodology (OVM) advanced testbench VIP.

The new SpeedBridge Adapters support SATA, SAS, USB 2.0 and Fibre Channel protocols. The USB Host SpeedBridge Adapter allows the emulated design to interface with real USB devices such as thumb drives, disk drives and cameras. The USB SpeedBridge Adapter pair (host and device) enables customers to validate a complete design with USB 2.0 protocol in a real system environment.

The new SATA, SAS and Fibre Channel SpeedBridge Adapters target storage applications. They allow the full speed SATA hard drive, the SCSI Disk Enclosure or the Fibre Channel switches to be connected to the emulated storage controller designs. Cadence emulators and the SpeedBridge Adapters provide the real-world environment required for system-level testing to quickly achieve the complete end-to-end validation solution.

“Cadence SpeedBridge Adapters have always been a key part of the fast bring-up time for our emulated design in a ‘real life’ environment for many projects. We have successfully deployed PCI-X, PCI Express as well as Video SpeedBridge Adapters,” said Junway Fang, engineering manager of S3 Graphics. “These solutions allowed our software teams to develop many applications before first silicon arrived and thus greatly reduced our development time. We are delighted to hear about the expansion of the Cadence SpeedBridge Adapters and system-level VIP portfolio.”

Cadence SpeedBridge Adapters connect Cadence emulators to external systems, networks, test equipment and mother boards running at full speed, enabling system engineers to emulate the design

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with real application requirements, such as booting the operating system, transferring files, and displaying graphics and video. The adapters are provided as a reusable solution, and are offered as plug-n-play or as customizable products.

[Cadence](#) has expanded its broad portfolio of SpeedBridge Adapters to support vertical solutions for 11 protocols and emulation environments, including PCI Express 2.0, SAS, SATA and USB 2.0.

The new PCI Express 2.0 and 10 Gbit Ethernet TBA VIP support Cadence advanced transaction-based acceleration verification and fulfill the requirements of PCI Express 2.0 and Ethernet protocols. The PCI Express 2.0 TBA VIP supports both root complex and endpoint devices while the Ethernet TBA VIP supports MII, GMII and XGMII interfaces. These VIP products are built with accelerated and synthesizable bus functional models (BFM) and provide an easy-to-configure transaction-level model interface.

Cadence system-level verification IP supports transaction-based acceleration and assertion-based acceleration (ABA). Cadence system-level VIP provides cutting-edge technology in a multi-language and comprehensive solution environment. Cadence TBA VIP supports testbenches and debug/analysis at a high level of abstraction (SystemC, C/C++) or Hardware Verification Language (HVL). Cadence now offers TBA VIP for nine protocols, including AMBA AHB, AMBA AXI, and PCI Express 1.0a/2.0.

“The portfolio of SpeedBridge Adapters and system-level VIP further enables Cadence to provide our customers technology leadership in acceleration and emulation,” said Ran Avinun, System Design and Verification marketing group director. “The portfolio provides Xtreme and Palladium Accelerator/Emulator series customers the best ROI with reusability, fast bring-up time and high verification quality for variety of vertical markets.”

The Cadence portfolio of hardware VIP now supports vertical solutions for the following protocols and emulation environments:

The Cadence portfolio of hardware VIP now supports vertical solutions for the following protocols and emulation environments:

ARM (7, 9, 11 & cortex-A9)	FibreChannel	Ethernet
PCI	PCI-X	PCI Express 1.1
PCI Express 2.0	SAS v1.1	SATA 1.0a
USB 1.1/ 2.0	Video/Audio	

Cadence offers TBA VIP for the following protocols:

AMBA AHB	AMBA AXI	Ethernet
I2C	PCI	PCI Express 1.0a
PCI Express 2.0	UART	Video Stream

Detailed information about Cadence system verification IP (VIP) and SpeedBridge Adapters can be found at <http://www.cadence.com/Products/sd/Pages/systemlevelverip.aspx>. The complete list of Cadence portfolio of OVM advanced testbench VIP, assertion-based VIP, system verification IP, and SpeedBridge Adapters can be found at <http://www.cadence.com/products/sd/Pages/default.aspx>.

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## ***COMSOL Multiphysics® 3.5a Roll Out***

3 November 2008

COMSOL® starts shipping COMSOL Multiphysics 3.5a, the latest version of its flagship product for multiphysics modeling and simulation. All COMSOL customers on subscription by October 31, 2008 will receive COMSOL Multiphysics 3.5a. Customers will start receiving the new version in late November.

COMSOL Multiphysics 3.5a is replacing COMSOL Multiphysics 3.5 that was announced on October 10, 2008. The version 3.5a product suite has been updated to provide the optional Labs – COMSOL Reaction Engineering Lab® for the modeling of reacting systems and the Optimization Lab for multiphysics problems optimization – as add-ons to COMSOL Multiphysics. Interfacing COMSOL Multiphysics 3.5a from a script based environment now requires MATLAB® from The MathWorks, Inc.

Full details about COMSOL Multiphysics and related products are available at <http://www.comsol.com>.

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## ***Delcam Launches New-Look PartMaker for Turn-Mill and Swiss-Type Lathes***

7 November 2008

Delcam's PartMaker Division is now shipping Version 9 of its PartMaker and SwissCAM software for the programming of turn-mill centres, Swiss-type lathes, CNC mills, conventional lathes and Wire EDM equipment. Major highlights of this release include a revamped and more productive user-interface, improved capabilities for programming directly on solid models and the ability to generate HTML-based set-up sheets automatically.

“Simply stated, Version 9 is the most productive new release yet in the lifecycle of the PartMaker CAM suite,” said PartMaker Division President Hanan Fishman. “The enhanced user interface and other new features will make our users even more productive in programming their CNC equipment, while offering new users an even easier to learn, more capable CAM system. We expect users will be able to reduce their programming times from previous versions of PartMaker by as much as 50% by using Version 9.”

“We pioneered the field of CAM software for turn-mill equipment and Swiss-type lathes with our patented Visual Programming Approach for programming multi-axis lathes with live tooling,” added Mr. Fishman. “This new release continues our long history of supporting these advanced machine tools.”

### **Revamped User Interface**

The major highlight of PartMaker Version 9 is a new-look user interface featuring, among other improvements, easy-to-use, user-configurable toolbars. Existing icons have been redesigned to make them even easier to understand. As well as giving the software a more modern appearance, the new tool bars, populated by attractive and easy-to-understand icons, make the software faster and more productive for both new and existing users. With the improvements in the user interface, most functions in the software can be accessed with the click of the mouse.

The revamped user interface has been carefully planned out so that existing users will be able to use the new version without any additional training. It builds on the extensive use of pictures in earlier versions

to help the user describe tools, part features and machining data quickly and easily. The fundamental PartMaker “divide and conquer” approach to the programming of complex parts has been maintained so making the complete process as simple as possible. Similarly, the synchronisation of tools working on multiple spindles can still be achieved with a few mouse clicks to achieve the most efficient cycle time.

## **Seamless Solids Programming**

Another highlight of the new release is the ability to carry out programming directly on a solid model. With Version 9, a solid model can be integrated into the programming window and tool paths can be assigned directly to the solid model. Critical manufacturing data is automatically retrieved from a solid model using a new “Extract Parameters from Solids” function. This saves time and reduces the chance for error by eliminating redundant data entry. In addition, the most commonly-used solids manipulation functions are displayed via an easy-to-follow Solids Toolbar.

## **Automatic Set-up Sheet Creation**

PartMaker Version 9 allows the user to generate automatically very professional setup sheets to improve shop floor documentation. This new feature, available as part of the PartMaker Documentation Wizard, can greatly speed up machine set-up time by eliminating the sometimes tedious and time-consuming process of creating setup sheets manually. The possibility of errors can be minimised by providing machine operators and set-up personnel with very clear instructions about how to prepare each new job.

The set-up sheets are created in HTML format and so can be viewed on any computer with an internet browser like Internet Explorer or Mozilla Firefox. The format of the set-up sheets can be fully customised by the user.

Many PartMaker users have been able to reduce machine set-up time by up to 50% versus their previous means of programming by generating more efficient and better quality CNC programs and by visualizing the machining process on the computer. Now, users will be able to make further strides in reducing set-up times by providing machining personnel with very clear instructions on how to prepare the machine to produce a particular part.

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## ***Flowmaster Launches V7.6 Across its Range of System Simulation Tools***

28 October 2008

Flowmaster launched Flowmaster V7.6, the latest system simulation software across its product range: V7 General Systems, V7 Automotive, V7 Aerospace and V7 Gas Turbine.

Flowmaster is system simulation software that allows engineers to design, simulate, validate and optimise thermo-fluid systems at the concept phase of development, often before any 3D data is available, and throughout the development lifecycle. Engineers can use Flowmaster to understand where small design changes can deliver the most performance improvement and encapsulate knowledge and data for future re-use.

The development of Flowmaster V7.6 has been driven by the need for companies to reduce development time and costs, whilst maximising quality and performance. Flowmaster V7.6 incorporates new capabilities for Flowmaster V7 Automotive and significant enhancements to the Flowmaster V7 product range including: V7 Aerospace, V7 Gas Turbine and V7 General Systems

## **Flowmaster V7.6 Automotive**

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Flowmaster V7.6 Automotive delivers new tools for Heating, Ventilation and Air Conditioning (HVAC) and Vehicle Thermal Management (VTM) including a New Advanced Heat Exchanger Module, Supercritical AC System Components and Correlations, Reversible Heat Pump Modelling, Refrigerant Charge Mass Determination, Cabin Component, Passenger Comfort Model, Global Performance Data and Enhanced Fluid Properties for the latest AC refrigerants.

## **Flowmaster V7.6 General Systems**

Flowmaster V7.6 delivers significant performance improvements with new numerical models for the compressible pipe (including an implicit finite difference method), and a variety of algorithmic, computational & ergonomic improvements to the Flowmaster GUI. The new parametric capabilities in Flowmaster V7.6 now allow engineers to undertake multiple ‘what if’ studies for different design scenarios without the need for external programming to third party applications such as Microsoft Excel. Simultaneously, improvements to Flowmaster’s Component Object Model (COM) Interface and the creation of a .NET Application Programming Interface allow Flowmaster to be used by industry standard design optimisation applications.

Major new and enhanced functionality for the management of simulation data includes:

- A user administrator tool allowing for the creation of project teams with different access privileges to Flowmaster data.
- A database synchronisation tool which allows users to ‘check out’ Flowmaster reference networks from a central database, facilitating the ability of engineers to undertake field trials with Flowmaster and work away from a central Flowmaster server. A facility that allows a manager to “sign off” simulations so that networks and results can be retained for regulatory, certification, quality assurance, contractual or any other project reason.

Finally a new delivery mechanism allows for much easier installations both on standalone PC’s or in enterprise client-server network environments.

“Flowmaster V7.6 represents a significant milestone in the development of our system simulation software product range. Development of V7.6 has been led by our customers which has resulted in a product that not only meets their needs today but also in the future. In today’s challenging economy, companies are looking at improving their processes not only to deliver competitive advantage but also to ensure they emerge stronger and more profitable. Flowmaster V7.6 facilitates this through new and enhanced technologies that significantly enhance productivity, innovation and collaboration.” concludes Morgan Jenkins, Product and Marketing Director, Flowmaster Limited.

For more information on Flowmaster V7.6, look out for free regional webinars taking place in November by visiting <http://www.flowmaster.com/events>.

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## ***Lectra Launches the Newest Version of Diamino, its Flagship Offer for Marker-Making***

4 November 2008

Lectra announced the launch of its newest version of Diamino, its marker-making solution for fashion, furniture, and automotive companies, and manufacturers using industrial fabrics.

Today’s new version of Diamino marks a genuine step forward in interactive and automatic marker-making, enabling manufacturers to make significant fabric savings and achieve even higher productivity.

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Diamino: a solution adapted to the needs and particularities of each market

Available as DiaminoFashion, DiaminoFootwear, DiaminoFurniture, and DiaminoTechTex, this technological solution allows manufacturers to optimize markers for all types of pieces. They can also maximize fabric savings in production using one of two complementary methods, to be chosen depending on the type of fabric and the complexity of the model.

The first method, called interactive (or manual) marker-making, requires some initial human intervention as the Diamino user prepares the markers on-screen, as optimally as possible, for fabric pieces to be cut during production.

The automatic method is entirely managed by Diamino. Productivity is thus significantly increased, notably because a list of markers can be processed in the background or overnight, without an operator.

The combination of these two methods available in Diamino brings many advantages to marker-making. High volumes of markers using simple pieces can be launched automatically, with consequent time savings and improved efficiency. The marker maker is free to concentrate on the quality of markers using more complex pieces for maximum optimization of fabric consumption.

This new version of Diamino is a result of recent developments in Lectra's Research and Development Department and the company's business expertise acquired over the past 35 years. The strength of Diamino lies in the combination of its ever-more powerful automatic marker-making algorithms and its increasingly more accurate management of constraints specific to each market, taking into consideration each type of piece in the marker and each kind of fabric to be cut.

"Diamino has no equivalent on the market today," said Daniel Harari, Lectra CEO. "We are currently the only company to have such a complete marker-making solution, covering the entire range of the specific needs of our different customers. The ability to combine these two modes of marker-making, applied to the specific business constraints of fashion, furniture, automotive and industrial fabrics companies, is a considerable competitive advantage for our customers, and it is one of the key points which allows them to make significant savings, in terms of both fabric and time."

Diamino: fabric savings and productivity notably increased

Thanks to the increasingly powerful algorithms of Lectra's new version of Diamino, automatic marker-making is now even more efficient. Consequently, the average fabric savings between automatic and interactive marker-making have been pushed beyond the historical limits, breaking the 2% barrier.

"With its new, reinforced algorithms that tight-pack all the pieces, this new version of DiaminoFashion Expert has enabled us to experience an incredible rate of efficiency with our materials," said Valérie Loiseau, Development Office Manager at JC Confection, a French company manufacturing top-of-the-line women's wear in addition to garments for its own brand, Isis. "We've been seeing material savings of 3 to 4% compared to the previous version."

In markets where margins are generally low and where fabric represents, in general, more than 50% of the cost of the finished article, these figures take on real meaning when applied to the savings to be made by the customer, particularly when producing in high volumes.

"Lectra's newest DiaminoFashion has improved the automatic nesting algorithms," said Shuhong Huang, Deputy Director at Shanghai Meroson Apparel Company Ltd, a large apparel manufacturing enterprise in China with a customer profile that includes many internationally recognized brands such as Oneill, Lost, Costco, and Oakley. "We are saving much more material in production. We believe

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DiaminoFashion V5R3 will help us realize greater profits.”

For example, a typical small- or medium-sized company in the fashion sector, which produces \$10 million in garments per year, could easily make savings of \$100,000 per year by using DiaminoFashion. For markets such as automotive, where production volumes per model are much greater, the fabric savings offered by Diamino, combined with Vector technology, constitute a real, measurable competitive advantage, often a determining factor in gaining market share.

“DiaminoFashion has effected significant improvement in efficiency,” said Yunlong Xue, pattern-making office supervisor at SuZhou Qunhong Fashion Company Ltd, a Chinese manufacturer specializing in men’s jacket and coats, with a staff of more than 400 employees and a production rate of one million garments per year. “We’ve tested 10 markers of three different patterns and are pleased to find that efficiency has improved 0.92% on average, with a maximum of 1.22% in fabric consumption gains compared to the previous version. The result is very impressive. This new version has really helped us save more materials and reduce costs.”

Diamino: more and more accurate and specialized marker management

With Diamino, companies can now take into account more and more constraints linked to the specific fabric technical characteristics or the pieces to be included in the marker. Among all these new concepts, the management of patterned fabrics is of great importance, especially in the furniture and fashion markets, and in particular for intimate apparel companies faced with the cutting and assembly of small pieces.

This version also improves the efficiency and productivity of markers for pieces which are complicated to manage, such as fusing, pieces which are not visible, but which give the finished garment a better shape, and are commonly used in the market of men’s suits and in top of the range women’s ready-to-wear.

This new version of Diamino also brings improvements to the preparation and optimization of pieces for production, especially in dealing with grain lines. This feature enables manufacturers to improve fabric resistance by defining blade direction.

For the automotive industry and for the airbag industry in particular, scanning of One Piece Woven bags is yet another valuable function. By taking into account any weaving flaws, cutting quality is ensured and a faultless airbag can be guaranteed.

As with all new versions of [Lectra](#) software, Diamino is compatible with Microsoft Windows Vista®.



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## ***LMS Virtual.Lab Acoustics’ New Fast Multipole BEM Solver Delivers Breakthrough Acoustic Simulation Performance***

30 October 2008

LMS recently announced the introduction of a new Fast Multipole BEM (Boundary Element Method) solver based on multipole expansion. Found in LMS Virtual.Lab Acoustics Rev 8, this new solver significantly extends acoustic simulation performance, enabling higher frequency acoustic analysis on ever more complex products without compromising simulation solving times.

To optimize acoustic performance in products, like automobiles, airplanes or wind turbines, users need to be able to handle increasingly higher frequencies and larger and more complex simulation models. At

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the same time, the simulation needs to be completed in time to impact the design process within shorter overall development cycles. This new Fast Multipole BEM solver provides breakthrough extensions to standard BEM-based solvers to address these increased requirements. Integrated within LMS Virtual.Lab, simulation models up to several million elements can be created, managed, solved and post-processed. Additionally, LMS Virtual.Lab supports extremely efficient parallelization for the Fast Multipole BEM solver, making the calculation time nearly proportional to the number of simultaneous CPUs used. This allows users to take full advantage of increasingly accessible multi-CPU computing environments.

“Engineers today have to deal with ever more complex systems that need to be analyzed for higher frequencies – and they must work faster than ever before. With the new multipole BEM technology, meshing requirements are less stringent, solving happens significantly faster whether on Linux clusters or on desktop PCs. As a result, acoustic engineers, but also non-acoustic experts, can solve tough problems and provide design directions for optimal noise and sound performances. From the sound quality of state-of-the-art flat-screen televisions, noise radiation from complex machinery, to the environmental impact of vehicle pass-by-noise, the range of systems that can benefit from Fast Multipole BEM is vast,” commented Koen De Langhe, Product Line Manager for LMS Virtual.Lab Acoustics.

Working in close cooperation with several industry-leading customers, LMS has validated the Fast Multipole BEM solver on models with a half million BEM elements, delivering 1/12 octave results that accurately match measurement data - within less than 3dB. Since this powerful tool can run on 32 CPU clusters, these mega-models can be executed in a fraction of the time needed compared to traditional solver technology.

“With the trend towards more complex models for vehicle exterior acoustic studies in view of pass-by noise and better sound package optimization, Renault recognizes the value of this new technology and its potential use early in a vehicle development program”, commented Sébastien Chaigne, a Renault engineering specialist.

“Thanks to the integration of this new Fast Multipole BEM solver, we further strengthen LMS Virtual.Lab Acoustics’ position as the industry’s benchmark acoustics simulation platform. Complementing the BEM and FEM-based applications, LMS Virtual.Lab Acoustics addresses our customers’ requests for faster acoustic simulation at higher frequencies and other ever more challenging acoustic concerns,” commented Willy Bakkers, Vice-President and General Manager of the LMS CAE Division.

The Fast Multipole BEM solver is based on technology created by EADS Innovation Works, EADS’ research and technology innovation facility. EADS has performed joint research with IMACS, a French research and technology provider in applied mathematics and scientific computing. Early in 2008, LMS established a partnership with EADS Innovation Works and IMACS to integrate this next generation technology in LMS Virtual.Lab Acoustics.

For more information on LMS, visit <http://www.lmsintl.com>

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***Localized Versions of Vectorworks 2009 Now Available in European Markets***

30 October 2008

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Nemetschek North America has announced that a number of its major European distributors have released their localized 2009 versions of the Vectorworks® line of design software, including: Designer, Architect, Landmark, Spotlight, Machine Design, Fundamentals, and Renderworks. The European distributors have tailored Vectorworks 2009 products to meet the specific needs of their local marketplaces. Versions are now available in Austria, France, Germany, Italy, Liechtenstein, and Switzerland. Belgium, Luxembourg, and the Netherlands will be releasing Vectorworks 2009 in the next few weeks.

The English-language versions of the Vectorworks 2009 product line were released in the U.S., Canada, U.K., Australia, New Zealand and other international markets in September, 2008. This newest version has received positive feedback from early adopters.

"Our localized versions are developed by Nemetschek North America and then enhanced to meet the local requirements in other countries," says Sean Flaherty, CEO of Nemetschek North America. "Through a close partnership with our distributors, customers are now getting the advantages of Vectorworks 2009 hot on the heels of the English-language release."

The Vectorworks 2009 product line is powered by Parasolid®. Given the large-scale modeling requirements of the A/E/C industry, Nemetschek North America believes that the best way to build a strong modeling platform is to leverage the investment the manufacturing industry has made in software development. Embedding a mature modeling software engine such as Parasolid into the Vectorworks products—which already had unique free-form solids and surface modeling capabilities—establishes Vectorworks as a best-in-class architectural 3D solution.

Additionally, innovative new interface functionality in Vectorworks 2009 products enhances usability. The pre-selection indication feature provides intelligent feedback from the cursor. Used in conjunction with drawing tools, SmartCursor snapping allows users to draw with more precision.

There are more than 70 other features in version 2009 that provide users with a software application that gives them the flexibility to design the way they want, the versatility to address all phases of design, and the intuitiveness to enable them to work the way they think.

For product availability by country and for more information, go to <http://www.vectorworks.net/international> and select the country of your choice. English-language versions of Vectorworks are available worldwide.

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## ***Mentor Graphics Boosts Eldo Simulator Performance with Generalized Multi-Threading Technology***

4 November 2008

[Mentor Graphics Corporation](#) announced a new version of the Eldo® transistor-level analog simulator that offers improved raw speed performance without compromising accuracy. The speed up targets very large post-layout simulations that are mandatory at 45nm processes and below to thoroughly verify a complex design.

Final verification simulations routinely include hundreds of thousands of devices and millions of coupled parasitic devices originating from complex layout extraction. Two key synergetic improvements to the Eldo simulator have been developed to address the new paradigm of matrices with millions of coupling elements. First, an entirely revised matrix solving strategy provides dramatic speed up over the previous version. Second, new and highly scalable multi-threading technology allows users to take

advantage of inexpensive multi-CPU hardware.

Using four CPUs, the observed speed up ranged between 3X to 10X depending on the circuit ‘signature’ in terms of the ratio of active devices to parasitic elements. The new architecture was validated on thousands of circuits ranging from ‘small’ phase-locked-loops or converters to much larger power management circuits or DRAM circuits. On average, larger circuits experienced a greater speed up. The speed up also opens the door for circuits that were simply too large to simulate with genuine SPICE level accuracy. Now, power nets or clock trees become reasonable targets for this level of simulation.

At the 45nm node, not only are post-layout simulations mandatory to avoid silicon re-spins, but these simulations have to retain the full details of the carefully extracted interconnect couplings. Many of these parasitic elements appear small, but when hundreds of them are combined, the impact upon performance or even functionality can be devastating.

“When developing this project, compromising simulation accuracy was not an option,” said Jue-Hsien Chern, vice president and general manager, Mentor Graphics. “When IC designers have spent considerable effort obtaining an accurate post-layout netlist, they don’t want a SPICE simulator to ‘simplify’ or ignore the parasitic elements. The task of a reliable analog simulator is not to silently manipulate the input netlist until it can compute some approximate waveforms in a reasonable CPU time. We listened to our customers and developed the right technologies to meet their challenge. Combining advanced math and sophisticated computer science, we developed a dedicated matrix solving technology amenable to efficient, generalized multi-threading. Not a single parasitic coupling capacitance is ignored and not a single digit of precision is lost.”

Designers benefit because the entire simulation process that includes matrix solving and device evaluations is now efficiently multi-threaded, and the speed up scales well with the number of CPUs. Since no tuning of the process is necessary, the improvements translate into a measurable net increase of productivity and/or verification coverage.

The new technology is fully and transparently integrated into the ADVance MS™ (ADMS) tool, Mentor’s single-kernel, language-neutral functional verification environment for digital, analog, mixed-signal and RF circuits. The new release of the simulator is part of the AMS 2008.2 release.

## **AMS Simulation Technology from Mentor Graphics**

The Mentor ADMS tool is a single-kernel, language-neutral functional verification environment for digital, analog, mixed-signal and RF circuits. This platform is built upon four high-performance, customer-proven simulation technologies: the Eldo tool for analog, ModelSim® for digital, ADiT™ for transistor-level, and Eldo RF for radio frequency simulations. ADMS supports most of the design languages, including VHDL, VHDL-AMS, Verilog, Verilog-AMS, SystemC, SystemVerilog, Spice, and C, for the design and verification of mixed-signal system, and SoC. ADMS has gained wide acceptance since its introduction and is currently used in hundreds of customer sites.

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## ***Powerway Announces APQP On Demand***

5 November 2008

[Powerway](#), Inc. announced the availability of [APQP On Demand](#) for companies that manage their suppliers using the Automotive Industry Action Group (AIAG) standard. ‘On Demand’ means that the software is pre-configured, ready to use globally, accessible over the web, with an affordable pricing

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model that allows companies to start small and grow as their needs require.

According to the AIAG, “The benefits of [APQP](#) or the Control Plan would be a reduction in the complexity of products’ quality planning for the customers and organizations, and a means for organizations to easily communicate product quality planning requirements to suppliers.”

## Leveraging Extensive Standards Expertise

Powerway has over 20 years of experience in the quality standards of automotive, aerospace, and general manufacturing. “APQP On Demand is the result of working with automotive and aerospace companies globally to build an online service that connects customers & suppliers”, said Dave Chambliss, Chairman & CEO of Powerway. “Companies tell us that the stakes are increasing to be a valued member of every Product Community they serve. We are listening and responding.”

## Standard but Tailored to Fit

Powerway APQP On Demand contains a pre-defined methodology with all of the APQP requirements and tools to manage the wide range of product quality risks from suppliers. Since every company is different, the APQP standard is a framework for customer requirements. APQP On Demand delivers both flexibility and control for communicating customer-specific requirements to suppliers in the Product Community.

Key features include streamlined and efficient management of APQP timeline, tasks, documents, issues, and changes. The pre-built process automatically adjusts to design responsibility, high risk sourcing, multi-lingual requirements, variable timing, etc.

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## ***Teradyne and Mentor Graphics Partner to Provide Yield Learning Solution for Nanometer Geometry Devices***

6 November 2008

Teradyne, announced the successful integration of the UltraFLEX™ IG-XL™ operating system with the Mentor Graphics YieldAssist scan diagnosis product at multiple domestic and international customers. This effort implements a complete design-to-production feedback loop using the UltraFLEX test platform by providing automated diagnosis of failure data from scan-based manufacturing test. Customer-specific implementations, supported by Teradyne’s worldwide applications support team, allow users to identify and isolate yield-limiting defects.

“We are pleased to have Teradyne as a partner in the deployment of YieldAssist,” said Greg Aldrich, Director of Marketing for Design-for-Test products at Mentor Graphics. “The YieldAssist solution helps manufacturers of complex devices to quickly detect and correct design and process-related yield problems. Integrating YieldAssist with the UltraFLEX software environment provides a great deal of additional value to our mutual customers.”

“This integration demonstrates how Teradyne’s IG-XL helps unify design and test environments,” said Greg Smith, manager of Teradyne’s Broadband and Computing Business Unit. “Teradyne has been very active in driving new industry standards that will further enable collaboration of this type with our customers and third party IP providers, such as Mentor. Given our customers’ requirements for faster time-to-volume, this important new capability greatly increases their return on investment in Teradyne’s UltraFLEX platform.”

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## About UltraFLEX

UltraFLEX delivers the power and precision needed for testing advanced microprocessors, PC chipsets and graphics, disk drives, video game devices, System-On-a-Chip (SOC) or System-in-Package (SIP), memory, baseband digital, network, and broadband devices. UltraFLEX offers a wide range of coverage when the device mix and throughput goals demand the highest speed, precision, coverage and capacity for multisite test efficiency.

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