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CIMdata News

CIMdata in the News: "UGS, Adobe Tighten Design Document Ties"

24 October 2005

As part of a universal effort to facilitate design collaboration, UGS and other PLM and CAD companies have for years offered various tools, including visualization software, to promote the exchange of product design data beyond the engineering group to non-technical constituencies like marketing or manufacturing. But visualization software and even some of the lightweight CAD collaboration and viewing tools are still more oriented to individuals with an engineering bias and knowledge of CAD functionality, whereas the PDF format has mainstream appeal.

"This greatly expands the ability of a lot of different people to have access and participate in using this type of information without having to train people," explained Ken Amann, director of research for CIMdata Inc. (Ann Arbor, MI), a market-research firm focused on PLM and CAD issues. "Instead of having a proprietary visualization tool, now you can get the information and visualize it in the context of a document that people are used to working with."

For the entire article, please see [UGS, Adobe Tighten Design Document Ties](#), (Managing Automation Online, October 24, 2005), by Beth Stackpole, Contributing Editor.

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Company News

Aras Certified as CMII Compliant by Institute of Configuration Management

24 October 2005

[Aras Corporation](#) announced at the CMII World 2005 Conference in Las Vegas, Nevada that the Institute of Configuration Management has certified Aras Innovator™ as CMII compliant to the new, more stringent requirements. The ICM certification validates Aras Innovator's compliance with industry recognized best practices for configuration and change management essential to developing quality products.

The Institute of Configuration Management (ICM) is the leading provider of research, education, training, and certification in the field of configuration management. The ICM defines and administers the CMII certification for configuration and change management which expands the scope of configuration management beyond design definition to include any information that impacts safety, quality, schedule, cost, profit or the environment.

In today's highly competitive, global environment companies of all sizes are applying the CMII principles to improve business performance. Hundreds of leading companies around the world (<http://www.icmhq.com/clients1.htm>) have adopted the CMII model, and need affordable CMII compliant solutions that deliver strategic results.

"CMII is a methodology for accommodating change and ensuring that design and process-related information remain clear, concise and valid. Our software certification formally verifies the functionality required to support the CMII methodology and we find Aras very robust," said Vincent Guess, president of the Institute of Configuration Management. "We are impressed with the approach that the Aras has taken incorporating the CMII principles into a broad range of strategic business solutions, and are proud to certify Aras as CMII compliant."

"We recognize the benefits CMII delivers for our customers and are pleased to have achieved certification," said Peter Schroer, President of Aras Corporation. "Aras has embraced the CMII model as the basis of our configuration and change management strategy within our solutions because the CMII practices are time-tested and proven effective."

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Ascent Launches New Revit Building Courseware Titles

1 November 2005

RAND A Technology Corporation, operating as RAND Worldwide, announces that its wholly-owned subsidiary, ASCENT – Center for Technical Knowledge®, has launched two new courseware titles for Autodesk's Revit Building software tool, Revit Building 8.1 Level 1 and Revit Building 8.1 Level 2.

ASCENT's Revit Building 8.1 Level 1 course is designed to enable users to create full 3D architectural project models and set them up in working drawings. The class delivers the basic tools that the majority of users will need in order to work with Revit effectively.

Revit Building 8.1 Level 2 is designed to follow the Level 1 course and explore more advanced features within the software program including tasks such as creating families and family types, using massing elements for conceptual design, space planning and area analysis, rendering and other visualization tools, structural tools and site planning.

ASCENT is an Authorized Author, Publisher, and Developer of Autodesk courseware and is planning to release new titles later this fall for Autodesk's Inventor and Civil 3D applications. The company's complete courseware line-up for Autodesk, Dassault Systèmes, and PTC software solutions can be seen at <http://www.ASCENTed.com/courseware.htm>.

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Aspen Technology Appoints Richard Packwood as Senior Vice President, Corporate Strategy

1 November 2005

[Aspen Technology, Inc.](#) announced that Richard Packwood has joined the company's executive team as Senior Vice President, Corporate Strategy. Packwood will have responsibility for guiding AspenTech's long-term business strategy and ensuring that the company maintains close alignment with the needs of its process industry customers.

Packwood comes to AspenTech with extensive experience in both formulating and implementing corporate strategies for a range of international businesses. Prior to joining AspenTech, Packwood was Senior Vice President for Business Development at Ajilon Consulting, where he played a key role in the growth of the company as a member of the executive team. His responsibilities included developing the company's business strategy, establishing a new direction for its international operations, and overseeing a number of major acquisitions. Before joining Ajilon, he was Vice President for Operations for ProVision Technologies, and was a strategic management consultant for the Parthenon Group and Bain & Company.

Packwood is a graduate of Durham University in England and holds an MBA from Massachusetts Institute of Technology.

CAM leader Delcam Increases Support for North American Machine Tool Suppliers

November 2005

CIMdata PLM Industry Summary

Delcam has increased the support it can provide to North American machine tool suppliers with the appointment of Brett Hopkins as Machining Technology Specialist for North America. Brett will also work with Delcam's North American sales team on improving general market awareness of the company and its PowerMILL CAM software in the USA and Canada.

Brett's main objective will be to work closely with machine tool suppliers to develop a range of demonstrations that highlight the strengths of both the particular piece of equipment and Delcam's software. These demonstrations will cover examples from Delcam's traditional toolmaking applications and from the company's newer target markets in the aerospace, autosport and composites industries.

He will also ensure that Delcam's post-processors keep up-to-date with developments in machine tool controls and option files. The aim will be to ensure that a new post is available as soon as any new machine hits the market and so ensure that it will be productive from the moment it is installed by the customer.

Brett has spent more than six years using Delcam products on the most demanding jobs, specializing in high-performance machining applications. His most recent position was Machining Center Applications Team Leader for Makino Die/Mold Technologies. In this role, he was responsible for leading all activities of the machining center applications staff for North and South America.

Brett and his staff focused on development of new machining processes to lower costs and increase productivity within the die and mold industry. The transfer of this technology through training and support of customers remains central to Brett's vision of ensuring North American manufacturers remain competitive globally.

Brett holds a degree in manufacturing engineering from Kent State University where he focused on machining processes and graduated summa cum laude. His prior positions include Manager of Operations for CITE (the Center for Industrial Training and Education), where he designed and conducted training for high school, university, and adult education students as well as industrial trainers and university professors.

"The increased use of more complex machining techniques, especially five-axis machining, has made it essential for machine tool companies and software suppliers to work more closely together," commented Mark Forth, Delcam's PowerMILL Product Marketing Manager. "Adding Brett to the Delcam team means that we will be able to develop closer relationship with machine tool suppliers. This will help them to sell more machines but, most importantly, will ensure that their customers can use Delcam software to maximize the productivity of their new equipment and so increase their return on investment."



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Chemtech (A Siemens Company) becomes Premier Software and Services Partner for Oil & Gas Market

27 October 2005

Spescom Software Inc announced that Chemtech (A Siemens Company and a provider of solutions for business optimization for the process industries), has become a Premier Partner for distribution of Spescom eB products and providing professional services for the Oil & Gas market.

This partnership was formed to combine Chemtech's track record of success in providing industry leading business optimization solutions for the process industry with Spescom Software's eB product line. Under the terms of the agreement, Spescom and Chemtech will immediately introduce Spescom's Oil & Gas focused eB solutions for Management of Change (MOC), Health, Safety, and Environmental (HSE), Pipeline Integrity, and Refineries into targeted oil & gas accounts. In conjunction with Chemtech's current portfolio of software solutions and quality professional services offerings Spescom's eB product line brings the digital oil field one step closer to reality.

"We are very pleased to announce that Chemtech has agreed to co-market our Spescom eB solutions into the Oil & Gas market," commented Keith Stentiford, CEO of Spescom. "Our eB product has been proven to provide the core for 24X7 information management systems required to operate a complex plant assets in the Nuclear industry for many years and it is exciting to have a partner with Chemtech's abilities on board to take our solutions to market in the Oil & Gas space."

Luiz Eduardo Ganem Rubião, CEO of Chemtech stated, "Spescom eB solutions for oil & gas appear to provide the missing link between real-time operational systems, legacy systems and engineering change management. The opportunities for us working together appear abundant and we look forward to field trials and believe the Spescom eB solutions can continue to allow Chemtech to innovate and deliver quality business optimization solutions."

Chemtech was founded in Rio de Janeiro in 1989 by three chemical engineers who graduated from IME (Military Engineering Institute). Chemtech is specialized in services and IT solutions for process industries (oil & gas, petrochemical and chemical, metals and mining, paper & pulp, food and beverage). In March 2001, it became part of the Siemens group and it is now inserted in the I&P (Industry and Plants) division of the group's I&S (Industrial Solutions and Services). Since this agreement, Chemtech has been interacting with other Siemens divisions, providing customers with even more complete and sophisticated solutions.

Among [Chemtech](#) customers are Petrobras, Ambev, Nestlé, Monsanto, ExxonMobil, Saudi Aramco, Shell, and Chevron. It also works with the ten largest chemical and petrochemical companies, the five largest paper companies, the four largest mining companies, three of the five largest steel companies, and four of the six largest consumer-product industries in Brazil, according to the Exame magazine

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CoCreate Announces 2006 Co-Design Competition

1 November 2005

CoCreate Software, Inc. announced its 2006 Co-Design Competition.

This year's competition celebrates innovative designs created collaboratively using at least one CoCreate product. To enter, submit joint designs developed outside the traditional in house team. Entries could include products developed with:

- OneSpace Designer Modeling, alone or in combination with other 3D CAD tools.
- OneSpace.net used in joint projects with customers.
- Components from multiple sources combined into OneSpace Designer to build a complete model.
- Input from multiple sites.

Visit <http://www.cocreate.com/co-design> to enter your co-design projects in one of 15 product categories.

Beginning March 1, 2006, CoCreate Website visitors can vote for the best co-design projects. CoCreate will announce the overall competition winner and the 15 category winners in the first week of April.

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Damon Rinard, R&D Engineer for Trek Bikes to Keynote CFdesign Customer Forums

2 November 2005

Blue Ridge Numerics, Inc. announced that Damon Rinard, R&D Engineer in Trek's Advanced Concept Group, will keynote two upcoming CFdesign Customer Forums. His presentation will reveal how CFdesign helped Lance Armstrong win his seventh Tour de France and how Trek uses CFdesign to accelerate product development and generate better products. Damon will share correlation data between CFdesign and wind tunnel experiments as confirmation of CFdesign capabilities for external aerodynamics.

Damon Rinard is an enthusiast bike racer and has engineered bikes at Trek for four years. During that time he has engaged in the design of aerodynamic wheels for tandem bicycles, light weight Radial Ridge® machined rims and Lance's carbon fiber wheel hubs, among other projects. Most recently he contributed cutting edge virtual wind tunnel simulations necessary to accelerate the development of Lance's latest time trial bike, the Trek TTx.

Blue Ridge Numerics will host CFdesign Customer Forums at the Chicago O'Hare Westin, November 8 – 9th, and at the Providence, RI Westin, November 17 – 18th. All customers and users of CFdesign are

invited to attend. Each event will offer opportunities for advanced training, continuing education, and professional networking. A detailed agenda and online registration is available at <http://www.cfdesign.com/2005userforums>.

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Delcam USA Appoints Complex as Reseller for Australia and New Zealand

November 2005

Delcam USA announced the appointment of Complex as the reseller for its FeatureCAM range of CAD and CAM software in Australia and New Zealand. This appointment is the latest move in the expansion of the company's reseller network, following on from its entry into the Delcam software group.

Complex was founded in Melbourne in 1988 by Fred Carlstrom as a CAD/CAM service bureau for the automotive and toolmaking industry. The company focused on providing specialized CAD modeling and CNC toolpath programs to the toolmaking industry using Delcam's software. Laser scanning, reverse engineering and rapid prototyping technologies were implemented progressively as the demand for these services grew.

In 1989, Complex was appointed as Delcam's sales partner for the Australian and New Zealand region. Today, Complex has a strong customer base throughout this region, making it a substantial player in the CAD/CAM market. In addition to the Head Office in Melbourne, Complex has regional offices in Adelaide, Sydney, Perth and Napier, New Zealand.

"The addition of the FeatureCAM family of software is an important step towards our vision of being Australia's leading service and equipment supplier in the field of CAD/CAM," commented Complex Sales Director Robert Simunic. "With its range of feature-based software for turning, wire EDM, milling and mill-turn, added to our existing Delcam software, we will be able to provide a more complete solution to our customers."

"Complex had been given the highest-possible recommendation by Delcam's UK staff so it was not a difficult decision to choose the company as our reseller in the region," added Delcam USA President Glenn McMinn. "Now I have met the staff at Complex, I am even more confident that they can build a successful business for us in Australia and New Zealand."

For more information about FeatureCAM or for a free evaluation copy, please call 1.888.393.6455 or visit <http://www.featurecam.com>.

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Development of Electrical Systems Necessitates Standards: CIM-TEAM becomes member of ProSTEP iViP Association

October 2005

CIM-TEAM Technische Informatik GmbH is the latest member to join the ProSTEP iViP Association. CIM-TEAM is a proponent of the development of standards for the exchange of electrological data with focus on the automotive industry and vehicle construction. As one of the leading providers of E-CAE systems, CIM-TEAM offers a wealth of experienced gained in a wide variety of different areas within the industry. The ProSTEP iViP Association provides the ideal platform for developing and harmonizing international product standards.

CIM-TEAM will contribute to the work performed by the Association within the framework of the ECAD Implementor Forum, where contributions to the ISO 10303 STEP AP212 standard for the design of electronic systems and wiring harnesses are drawn up.

Ulrich Prottung, the product manager for E³.cable at CIM-TEAM, has the following to say: "As far as our company and our products are concerned, an open standard provides a means of making E³.cable design data available for integrating the various design tools in the development process and for incorporation in manufacturing. AP212/KBL (harness description list) is the standard we use today for wire harness development."

"The widespread use of AP212 among our customers in the transportation industry (automobiles, commercial vehicles, trains and airplanes) and the content, which covers everything from the concept phase through to manufacturing, is ideal for us", says Joachim Frank, managing director of CIM-TEAM GmbH. "We rely on standards as they save us and our customers a great deal of time and effort. We are therefore looking forward to participating in the ECAD Implementor Forum and contributing to the further development of the standard."

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EVE Names CTC as Its Japanese Distributor

1 November 2005

[EVE](#) (Emulation and Verification Engineering) announced that it has signed a distribution agreement with ITOCHU TECHNO-SCIENCE Corporation (CTC) of Tokyo, Japan.

This follows EVE's move in 2004 to form Nihon EVE K.K., a wholly owned subsidiary based in ShinYokohama, Japan, and underscores its commitment to the Japanese market and the growing demand for hardware-assisted verification.

Remarks Hideki Negishi, general manager PLM System Division of CTC: "Hardware-assisted verification is becoming a must have in Japan due to the dramatic swell in design sizes and the explosive growth of embedded software. EVE's emulation platforms are setting a new trend in the industry with unmatched performance and unbeatable price. We have been impressed by EVE's innovative technology and rapidly increasing customers' successes."

"EVE's ZeBu (for "zero bugs") hardware-assisted verification platform and associated software for system-on-chip (SoC) verification and software development has been well accepted in Japan," remarks

Tsugumi Fujitani, managing director for Nihon EVE K.K. "We chose to work with CTC because it has an excellent reputation and a solid understanding of verification. Our customers depend on responsiveness and good support, both of which are hallmarks of CTC. It is a welcome partner."

Established in 1972, ITOCHU TECHNO-SCIENCE Corporation (CTC) provides advanced IT & Technologies included EDA solutions. CTC supports such market segments as telecommunications, broadcasting, finance, distribution, manufacturing, education/government, medicine, pharmaceutical/chemicals, and textiles/apparel. CTC has formed partnerships with more than 200 leading IT & Technologies companies from nine countries. These partnerships range from those with global multinational IT & Technologies companies to those with highly focused venture businesses. CTC employs over 3,000 people in Japan.

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Federation Software Expands Operations Abroad

1 November 2005

Federation Software announced the expansion of sales and support operations in the United Kingdom. The new branch office of Federation Software will serve users of the company's Product Lifecycle Management (PLM) systems integration technology throughout North-Western Europe .

"Our solutions apply to businesses internationally. Given the global nature of the PLM evolution, we felt that a substantial presence in the UK was the necessary next step for the organization," commented Kirk Hanes, CEO of Federation Software. "The expansion will allow us to provide outstanding service to clients abroad, as well as to capitalize on the new opportunities emerging in the market."

Federation Software's expansion overseas culminates more than 5 years of domestic success of the firm's Value Chain Suite of software. "We help manufacturers federate the value chain by providing common-sense—and much-needed—software solutions that link heterogeneous PLM systems," said Hanes.

The increasing demand for the Suite of software has led to the opening of satellite sales offices throughout the United States and Europe in recent years, managed by Federation Software's headquarters in Denver, Colorado. The European base of operations will share the responsibilities of the company's headquarters, marking the advent of Federation Software as a global entity.

To find out more, visit: <http://www.federationsoftware.com> or call: 1-888-799-8900.

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FileNet's Customers and Partners to Gather at UserNet 2005 to Share Best Practices for ECM Solutions

1 November 2005

Who: FileNet Corporation

What: FileNet will host its annual Americas and Asia Pacific user conference, UserNet 2005, at Caesars Palace in Las Vegas, Nevada. During the four-day conference, more than 1500 attendees, including the company's customers, partners and developers from 21 countries, will share ideas, strategies and present best practices related to making better, faster business decisions through ECM. Since its launch in 1985, UserNet, FileNet's user group, has been instrumental in creating a strong link between the company and its global customers.

At UserNet 2005, conference attendees will participate in a variety of informative sessions and workshops, product demonstrations/displays and other activities, including customer keynote addresses from Larry Blakeman, CIO for MetLife; Robert M. Smith, vice president and chief claims officer for MetLife Auto & Home; and Bill Apple, senior technical director for SBC Corporation.

Additionally, UserNet 2005 will feature:

More Than 120 Educational and Technical Sessions: Presented by FileNet customers, partners and product experts, these sessions will cover a wide variety of topics aimed at helping attendees apply FileNet technology.

The company's presenting at UserNet 2005 include: Accenture, Altien Ltd., American Family Insurance, Anchor General, ANDXOR, AstraZeneca Pharmaceutical, BearingPoint, Bwise, CNA Financial, Cenit, Citizens Bank, CGI-AMS, Coastline Technologies, Cognos, ConEdison of New York, Cornucopia Solutions, CTX Mortgage, County of Sacramento, Datacap, Eastman Kodak Company, Fairfax Data Systems, First Commonwealth, GlaxoSmithKline, Great American Insurance Co., Halliburton Energy Services, HCL Technologies, Hewlett-Packard, ICG Consulting, ICI Solutions, ILOG Inc., Imagine Solutions, InterPublic Group, Iron Mountain, Kemsley Design Ltd., Land Transport Authority, McLaren Software, MGM-Mirage, Mutual of Omaha, Network Appliance, North Shore Credit Union, ObjectBuilders, OmniRIM, PacifiCorp, Patni Computer Systems, Premera, Providence Home Services, PPL Corp., Regions Financial Corp., RS Computer Associates, Sapphire Technologies, Softech & Associates, State Farm Insurance, State of Montana, State of North Dakota, State of Washington, Soluziona, The Boeing Company, USDA Rural Development, Unisys Corp., Wells Fargo Card Services, and Weyerhaeuser.

UserNet Expo: The Expo offers attendees the opportunity to evaluate a wide range of industry-specific solutions from more than 50 FileNet ValueNet partners to see first hand how these solutions can help produce a greater return on IT investments.

2005 Innovation Awards: Winners of this annual awards program will be announced on November 8th at the UserNet Awards Banquet. The awards recognize FileNet customers who demonstrate a commitment to leveraging FileNet's ECM platform to help achieve better, faster decision-making.

When/Where: [UserNet 2005](#), Caesars Palace, Las Vegas, Nov. 6-9, 2005

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Fluent Invites Submissions for its 2005 "CFD User of the Year" Awards

1 November 2005

Fluent Inc. announced the closing date of November 30th 2005 for all submissions to its annual "CFD User of the Year" Awards. The winning candidates will be chosen to represent the best of the many applied CFD studies and papers published by users of Fluent's industry-standard CFD software over the past year. Work can be submitted for any of the following five categories:

- Most Innovative Use of CFD Technology
- Most Impact of CFD on Society
- Most Impact of CFD on a Business Process
- Best Use of CFD as a Design Tool
- Best Industrial CFD Study

The winners will be selected by a panel of judges led by Dr. Michael Engelman, CEO of Enductive Solutions Inc. and Corporate Vice President of Fluent Inc. Winning entries for each category will be announced early in 2006, and the winners will receive a cash (or in-kind) prize along with an engraved plaque for their work. CFD papers that have been published or are awaiting publication in technical journals will be accepted and can be in a range of formats. Accompanying animations will also be accepted.

To find out more about the judging panel and to read the winning papers from 2004, visit:

http://fluent.com/events/cfd_user_awards/index.htm.

To submit your entry for the 2005 CFD User of the Year Awards and to find out more about the criteria for winning, visit: http://fluent.com/events/cfd_user_awards/cfd_user_form.htm.

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Magma Launches Second Series of "TechTalks"; Lunch-Time Technical Presentations Cover Migrating to Magma's Blast Create, Statistical Timing Analysis and Yield Enhancement

26 October 2005

Who: Magma® Design Automation Inc. launches its second series of lunchtime "TechTalks" for design professionals.

When/What: The dates and topics for this TechTalk series are:

Nov. 16, from 11:30 a.m. to 1:30 p.m. Pacific, "Statistical Static Timing Analysis: Making Design Closure Easier"

Jan. 25, 11:30 a.m. to 1:30 p.m. Pacific, "Design for Yield"

Where: Santa Clara Convention Center, Santa Clara.

Registration: Magma TechTalks 2005 are open to IC design professionals concerned with address timing, power, signal integrity and yield while significantly reducing the RTL-to-GDSII design cycle of multimillion-gate and high-speed nanometer designs. Lunch will be served. See: <http://www.magma-da.com/MagmaTechTalks> to register and for more information.

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Magma to Feature Integration of DFT into the RTL-to-GDSII Flow at International Test Conference

1 November 2005

Magma® Design Automation Inc. announced that it will be participating in the International Test Conference (ITC) Nov. 6-11 in Austin, Texas. Product demonstrations of Blast DFT™ will feature memory BIST capabilities for 90- and 65-nanometer (nm) designs, including self-repair and routing-friendly architecture. With this capability Blast DFT helps designers maximize yield in leading-edge process technologies. Also see demonstrations of automated interfaces to Mentor's TestKompress and LogicVision's ETCreate.

For the seventh year in a row, Magma's R. Dean Adams, Ph.D., director of product development for DFT products and renowned industry expert, will be providing new insights into the latest concepts in built-in self-test (BIST) and built-in self-repair (BISR). The one-day tutorial entitled, "Memory Test and Self-Test for Deep-Submicron Technologies" will be held at ITC on Sunday, Nov. 6 at 8:30 a.m. CDT.

"With the introduction of Blast DFT in April and our work with Mentor and LogicVision to automate the test and debug flow, Magma has significantly expanded its DFT solution," said Dwayne Burek, director of product engineering for DFT products at Magma. "We're excited to show test engineers how they can use our solution to get early visibility into how DFT affects timing, area, power and yield and how to avoid problems that might delay design closure or decrease yield in 90- and 65-nm SoCs."

At the ITC corporate presentation sessions on Wednesday, Nov. 9 at 9:30 a.m., Mr. Burek will give a presentation entitled, "Physically Aware DFT."

Physically Aware DFT

Meeting design constraints such as area, timing and power is becoming more difficult and designers are struggling to maintain predictable schedules. Integrating design-for-test (DFT) into the design flow improves predictability and eliminates iterations. The main purpose of the comprehensive DFT architecture is to provide an efficient component test, but it can also be leveraged for silicon debug, failure diagnosis, and trend analysis for yield management. By being an integral part of the RTL-to-GDSII design flow, Blast DFT utilizes all the design data, including timing and physical information to optimize test quality and test time. By providing early visibility, chip architects can accurately predict product viability and the impact of DFT. Blast DFT provides design flow flexibility and scalability and faster turnaround time. It supports both flat and hierarchical designs and can perform DFT analysis and insertion on large designs in minutes.

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MatrixOne Fast Tracks Product Development from Innovation to Rack at Apparel Tech Conference 2005

1 November 2005

MatrixOne, Inc. announced that the company will be a silver sponsor of the Apparel Tech Conference, hosted by the Fashion Institute of Technology on November 10, 2005. MatrixOne will showcase the MatrixOne® Accelerator for Apparel Design and Development™ at the conference.

This industry-specific, rapidly implemented PLM offering has been optimized based on MatrixOne's track record of helping product design companies solve the challenges specific to the fashion industry. The MatrixOne Accelerator for Apparel Design and Development is a comprehensive, commercially available solution that provides "out of the box" industry data models and schema, pre-defined work processes and reports, as well as role-based user interfaces to speed deployment and ease user adoption. This solution is built on top of MatrixOne's PLM platform and business process applications to provide scalability, performance and the flexibility to keep pace with today's business environment.

"MatrixOne's PLM solutions allow apparel design companies to quickly react to changing styles and market demands dictated by the seasonal nature of the industry by imposing structure and discipline throughout the entire design and production process," said Kurt Andersen, vice president of industry solutions for MatrixOne. "Savvy apparel companies recognize the benefits of PLM. By efficiently improving communication of specs and designs, these companies are getting products to the consumer faster than the competition."

The MatrixOne solution offers broad and robust library management capabilities for organizing information such as colors, fabrics, trim, build instructions and other key elements to assist in reuse, standardization, collaboration and access control across the extended enterprise. In addition, capabilities for product design and planning, product costing, and strategic sourcing are included to encompass all aspects of the apparel design, development and production lifecycle. The MatrixOne Accelerator for Apparel Design and Development is now commercially available.

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Proficiency Appoints Marque Teegardin Vice President of Sales

24 October 2005

[Proficiency](#) announced the appointment of Marque Teegardin as vice president of sales.

“Marque brings a proven sales track record to Proficiency. With more than 15 years of experience in the software development and product lifecycle management industries, he will be instrumental in continuing to grow our Company and offering unprecedented enterprise interoperability to the market,” said Trenton H. Brown, Proficiency’s president and chief executive officer.

Prior to joining Proficiency, Teegardin served as vice president of North American sales for CollabNet, a provider of on-demand, distributed software development solutions. Under his leadership, Teegardin was able to grow sales by nearly 40 percent and was responsible for securing two of the largest deals in company history. Previously, Teegardin held various sales leadership positions over the span of eight years at Parametric Technology Corporation advancing to the level of senior vice president. While at PTC, Teegardin was the lead member of a team that managed some of PTC’s largest heavy-equipment customers representing a significant portion of company software revenues. Early in his career, Teegardin worked in a number of sales roles at Wallace, Inc.

Teegardin holds a bachelor of arts degree in marketing from Hillsdale College in Michigan.

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ProSTEP iViP Science Days 2005: Simulated Reality Redefines the Engineering Workplace of the Future

October 2005

ProSTEP iViP Science Days 2005, held this year under the motto “Cross-Domain Engineering“, made one thing patently clear: The most realistic simulation possible of products, their functionalities and their properties, as well as the processes involved in their creation, plays a key role in the efficient synchronization of virtual and physical process chains. A great deal has already been achieved, but there remains a number of areas in which more research is required.

135 participants from 16 nations – a new record for the conference, which is held every two years – acted as representatives of the research and development activities being conducted at universities and in industry. The 27 lectures and four workshops covered topics ranging from the presentation of process standardization efforts that have already been implemented through current research activities to ideas for working groups that will be involved in future projects. Several of the conference highlights serve to underscore the wide range of applications that are the focus of current research.

The keynote speaker, Professor Dr. José Luis Encarnaç o, was on home turf since this year’s Science Days were held at the Fraunhofer Institute for Computer Graphics (IGD) in Darmstadt, where he has been director for many years. In his speech, Professor Encarnaç o outlined the core topic of the conference, namely the efficient collaboration between different engineering disciplines with regard to

the development of innovative products. The Fraunhofer IGD has defined 12 paths to innovation for the industry that, at the same time, describe visions for future technological revolutions. According to Professor Encarnaç o, virtual reality (VR) and augmented reality (AR) will be followed by simulated reality (SR). The cross-domain engineering workplace of the future will be supported by the complete simulation of materials, products and processes – something that will continue to demand considerable research effort in the field of computer graphics.

Professor Frank-Lothar Krause, director of the Fraunhofer Institute for Production Systems and Design Technology (IPK) in Berlin and member of the board of the ProSTEP iViP Association, also focused on the advantage that realistic simulation offers with regard to the management of complex processes, which are difficult to plan and almost impossible to automate. He presented new methods that rely not only the input of activities, resources and product data but also on libraries in which company-specific process know-how, also relating to the use of information technology, is collected. This makes adaptive, i.e. self-learning, process simulation possible.

Requirements management, an area that has, up until now, been addressed to a lesser extent within the Association, was the topic of several presentations. Roland Mayer-Bachmann, from the Institute for Computer Applications in Mechanical Engineering (RPK) at the Technical University in Karlsruhe, gave an account of an unusual approach: The product is regarded as an organism that is made up of product elements including their properties and features. The relationships between the elements are examined for rules of evolution and growth similar to the DNA of human cells. It is intended that this will allow a significant reduction in the time and money involved in defining the requirements for follow-on development in vehicle construction.

There is a growing need for major automotive OEMs to link their engineering capacities to some extent in order to also increase the degree to which process know-how can be acquired. Torsten Eder, BMW, has been investigating this relatively new trend. The OEMs cannot by any means expect to reap only advantages. The complexity of the development process increases as does the danger of redundant development data. According to Torsten Eder, OEMs can be happy if the costs do not exceed those of traditional development. Nevertheless, intensive efforts are being directed at standardizing what are referred to as double networks, which are intended to join the individual OEM's central development facilities of today.

The standardization efforts of the ProSTEP iViP Association can also make a valuable contribution to this step. Based, for example, on the OMG PLM Services – the subject of the presentation given by Michael Feltes, Daimler Chrysler. Mr. Feltes, who heads the Association's XPDI (Extended Product Data Integration) project, reported on a number of application scenarios in which the OMG PLM Services were used to link the PDM backbones of various development partners and for the integration of different IT tools within the product life cycle. "The PLM Service have been field tested and are ready for use. Best Practice examples and support are available. The PLM Services became an international OMG standard in June 2005."

The team at the Technical University in Kaiserslautern led by Professor Dr. Jan Aurich is working on models for a VR-based reconfiguration of production systems and factories. He indicated the enormous potential waiting to be unlocked in this area by the application of virtual reality, and the challenges that need to be mastered.

The variety of the research projects presented provide reason enough to be optimistic that the demand voiced in the keynote speech given by Petra Ålund, Scania, can soon be satisfied: “Our job is to break down barriers and ensure collaboration actually takes place across corporate borders – not only with regard to large networked projects but also with regard to normal contact between companies.”

You will find more information on the ProSTEP iViP Science Days 2005 in the Internet at <http://www.prostep.org/sdays2005>.

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PTC Hosts Pro/INTRALINK® 8.0 Workshops

31 October 2005

PTC announced that it will host a series of hands-on workshops on [Pro/INTRALINK](#) 8.0, the newest version of the [Pro/ENGINEER](#)® workgroup [data management](#) solution, in ten cities across North America. The complimentary sessions, available to existing [Pro/INTRALINK](#) customers, will provide CAD and System Administrators with an overview of the productivity enhancements in Pro/INTRALINK 8.0. Additionally, the workshops will provide tips and techniques to help plan the migration from Pro/INTRALINK 3.x, and include a hands-on tutorial to familiarize attendees with the new user interface. The workshops will be led by technical experts from PTC and will cover the following topics:

- PTC [Data Management](#) Strategy
- Pro/INTRALINK 8.0 Demonstration
- Pro/INTRALINK 8.0 Data Migration Tools and Services
- Hands-On Tutorial
- Next Steps to Prepare for your Data Migration
- Q&A

Dates and Cities:

- November 10, 2005 Grand Rapids, MI
- November 17, 2005 Philadelphia, PA
- November 30, 2005 Detroit, MI
- December 14, 2005 Boston, MA
- January 10, 2006 Newport Beach, CA
- January 25, 2006 Cincinnati, OH

- February 1, 2006 Chicago, IL
- February 8, 2006 Pittsburgh, PA
- February 28, 2006 Cleveland, OH
- March 22, 2006 San Jose, CA

[Register](#) online for these Pro/INTRALINK 8.0 Workshops.

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think3 Executive Describes Dramatic Product Development Time and Cost Savings in Panel Discussion at Major Italian Transportation Industry Technology Conference

28 October 2005

[think3](#) Director of Product Marketing Davide Ciarloni presented think3's approach to industrial design—"Target-Driven Design (TDD) Approach in Automotive Design and Engineering: Innovative Applications of TDD on Design Review Process and Spring-back Compensation"—in a technical session at Alumotive 2005 held from October 20—22, 2005 in Modena, Italy. Other participants in the Alumotive panel discussion on "Design with Light Alloys and new Technological Materials" included engineers from automakers Audi and Ferrari, as well as from the Minardi Formula 1 racing team. Alumotive is the International Exhibition of Innovative Solutions, Subcontracting, Aluminium Components and Technological Materials for the Transport Industry.

In his presentation, Ciarloni showed how the Target-Driven Design approach to industrial design now allows automotive designers, for example, to modify the space under the hood in eight minutes instead of the eight hours previously required, to reshape curves in 30 minutes instead of four hours, and to expand a wheelbase in four hours instead of the usual 80. Target-Driven Design, based on think3's advanced Global Shape Modeling technology, GSM3, enables industrial designers to create rapid, accurate variations, modifications or refinements throughout the product design process. Faster iterations and unlimited design creativity enable time-savings exceeding 90 percent in the modification phase and up to 75 percent in total development costs. The result is not only better industrial design but also a substantial cost savings and competitive advantage in a range of industries, including automotive and transportation, where time-to-market is critical to success.

GSM3's unique features include:

- **Reflection Highlights**—allowing designers to modify a shape by changing a reflection light on the shape itself. GSM3 will compute the shape that will generate the desired reflection light creating a highlight. This can be accomplished in 10 minutes or less, versus the 40 to 50 hours required using traditional methods, and represents a dramatic improvement in the realization of design intent through technology.
- **Real-time Dynamic Rendering**—the only technology that allows designers to create and make live modifications to a model (designers no longer have to worry about doing the math) while

simultaneously being able to see the artistic results in a rendered form, providing a level of realism on the screen never before possible.

- Adaptive Measures—a new technology that enables designers to refer and link the construction of new 2-D and 3-D geometries to existing ones without the need to use calculators or spreadsheets, making design much easier and faster, while providing more powerful modeling capabilities.

Designers reach their design intent by assigning "targets," which can be specific points to be reached, or curves, or even the desired reflection of light on a reference shape. GSM3's Target-Driven Design approach allows designers to focus exclusively on product shape and to express themselves in their own way, then translates their design intent automatically and completely into engineering models for analysis and manufacture. It is based on think3's pioneering efforts in developing a hybrid modeler that enables designers to create anything by mixing and matching surface and solids modeling to best reach their design goals, and supports a fundamental shift in the way designers and others along the product design/development continuum can use computer-aided design (CAD) software to facilitate both design and production.

"GSM3 is still the only creation/modification tool that lets industrial designer make accurate and precise changes on the fly, anytime, anywhere in the product design process, without limiting their creativity," explained Ciarloni. "Its 'technology bridge' allows stylists and engineers to complete their surface and solids modifications in one system, while retaining both design intent and data integrity. For the first time, with think3's radical new approach to design, it is finally possible to focus on the creative design process and forget the math, improving a company's competitiveness and time-to-market."

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Tribold Launches US Operation at TeleManagement World, Dallas

31 October 2005

[Tribold](#), the UK-based product lifecycle management software developer, is to launch its US operation at the TeleManagement Forum World conference in Dallas. Tribold's enables communications service providers (CSPs) to reduce the time to market of their products by up to 12 months.

Tribold will be exhibiting at the TeleManagement World exhibition in Dallas, Texas, (7–10 November, 2005) where on 9 November at 10:45 the company's co-founder and Chief Technology Officer (CTO), Catherine Michel, will be sharing a speaker podium with leading management consultant firm, McKinsey. Delegates will be able to hear about how to cut the complexity of bringing new products and services to market, speeding up their offerings and stealing a march on the competition.

Tribold has already engaged with clients in the US, but TeleManagement World officially marks its arrival in the North American market. Tribold will be showcasing the capabilities of its flagship Product Portfolio Manager™ software, complete with customer case studies.

“The communications industry is changing – and fast. CSPs are becoming retailers in their own right, with the same level of commoditization that we would traditionally associate with the fast moving consumer goods (FMCG) market,” said Simon Muderack, CEO of Tribold. “TeleManagement World offers product managers to come and talk to us about how to bring products to market quicker and attain complete visibility over the lifecycle of their products from inception to retirement. We see incredible potential for growth in this market among North American providers.”

Tribold Product Portfolio Manager™ software Release 2.1 reduces time to market by up to 12 months. This provides customers with a significant competitive edge, greatly simplifying what is currently an expensive, time consuming and people intensive process when bringing new products to market. It helps them to be more strategic and monitor the performance of products once released.

In October 2004, the company launched Tribold Product Portfolio Manager (PPM) – the first communications industry-specific, packaged enterprise application for Product Lifecycle Management (PLM) and Product Data Management (PDM) with capabilities including:

- Centralized product catalogue – one single truth – a 360° view of products across the enterprise supporting control and reuse of products
- Out of the box, world-class product lifecycle management process
- Automated integration of product data across all enterprise applications supported by out-of-the-box integration
- The ability to proactively offer customer self-selection of targeted product package and bundle propositions
- Tracking of true cost and profitability of products throughout the lifecycle
- Closed-loop automated retirement of products from the marketplace

Tribold Product Portfolio Manager Release 2.1 enterprise software application gives communications providers enhanced central management of the enterprise’s product portfolio data throughout the product lifecycle. Tribold PPM Release 2.1 consolidates the product management process into a single, automated, error-resilient stream where customers will be able to benefit from:

- World-class analytics and reporting capabilities
- Enhanced suite of off-the-shelf third party application integration adaptors
- Increased user security and data management, including full rollback and backup, capabilities
- Unparalleled enhanced business user experience

- Enhanced market leading automated closed-loop PLM process
- Full regulatory (TMF eTom/SID) compliance

Tribold's Product Portfolio Manager manages the key elements of product launch: design, build, launch, in-life management, retirement and analysis. Deploying Tribold technology reduces time to market, increases customer retention, enables effective management, improves competitive edge and drives revenues.

"In such a cutthroat market as the communications sector, never has it been more essential to remain one step ahead of the competition and drive new products to customers. Tribold Product Portfolio Manager empowers communications providers to deliver this," Mr Muderack said.

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Visiprise Names H. Dave Chambliss COO

31 October 2005

Visiprise, Inc. has named technology-veteran H. Dave Chambliss as the company's Chief Operating Officer. Chambliss will be responsible for sales, professional services, marketing and overseeing the development of Visiprise's Industry Business Units.

As an outside consultant working with the investment community, Chambliss was essential in the construction and execution of the recently announced merger of [Visiprise](#) and HMS Software. He will continue to play a pivotal role in the merger by leading the integration team for Visiprise and HMS Software.

"Dave brings the experience and manufacturing industry knowledge necessary to effectively lead the growing operations side of our business," said Sean McCloskey, president and chief executive officer of Visiprise. "We are confident that Dave will continue to engineer a smooth merger between Visiprise and HMS as well as effectively leverage operations so that our customers, investors and employees benefit from our growth."

Chambliss joins the Visiprise team after a long tenure with manufacturing technology provider Tecnomatix where he served as president and general manager of North American Operations. During the last 20 years, he has held various executive positions with technology companies, including IBM, LDS and STG Technologies.

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Financial News

Agile Reports Preliminary Second Fiscal Quarter Results; Full Results to be Reported November 21, 2005

3 November 2005

Agile Software Corporation announced preliminary results for the second quarter of fiscal 2006, which ended October 31, 2005. Agile expects total revenues for the second quarter to be between \$31 million and \$32 million, compared to \$28.2 million in the prior year period and \$34.4 million for the first quarter of fiscal 2006. The Company expects total software license revenue for the second quarter to be approximately \$10 million.

Agile also expects to report a net loss for the second quarter between \$0.07 and \$0.08 per share on a generally accepted accounting principles (GAAP) basis, and between \$0.03 and \$0.04 per share on a non-GAAP basis. Non-GAAP loss for the second quarter of fiscal 2006 excludes from the GAAP results amortization of intangibles and stock compensation expenses. Agile plans to report the full results on November 21, 2005.

Agile will discuss its preliminary results on a conference today beginning at 2:00 p.m. Pacific Time. You may access replays of the Web cast for ninety days after the call at <http://www.agile.com/investors>.

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Another Quarter of Record Revenues for Valor: Revenues Maintain Growth Trend for Tenth Consecutive Quarter

31 October 2005

Valor Computerized Systems shows continued growth during the nine-month period ending September 30, 2005.

Valor's revenues in the third quarter of 2005 reached \$9.2 Million, an increase of 17.5% as compared to \$7.8 Million in the third quarter of 2004. During the nine-month period between January and September 2005 Valor recorded revenues of \$26.9 Million, an increase of 20% as compared to \$22.4 Million in the same period of 2004.

The operating profit for the first nine months of 2005 was \$1.5 million, an increase of more than 150% as compared to \$567 thousand achieved during the parallel period of the previous year.

The net profit before expensing Share-Based Compensation according to IFRS2 Regulations was \$251 thousand in the third quarter of 2005 – a decrease of 57% compared to \$577 thousand in the parallel quarter of the previous year. Net profit for the nine-month period ending September 30, 2005 was \$1.7 Million, an increase of 57% compared to \$1.1 Million during the first nine months of 2004.

After expensing Share-Based Compensation, the net profit in the third quarter of 2005 was \$103 thousand, a decrease of 62% compared to the adjusted profit for the third quarter of 2004, and the net

profit for the first nine months of 2005 was \$1.14 Million – an increase of 84% compared \$619 thousand during the same period last year. Earnings per share (diluted) for the first nine months of 2005 increased by 100%, from \$0.03 in 2004 to \$0.06 in 2005.

Explanatory Text:

Commenting on the quarterly results, Valor’s president and CEO, Ofer Shofman, said: “I’m happy to see that we were able to meet our expectations. Traditionally, the third quarter is always a weaker one, yet during this quarter we were able to continue the expansion of our customer base, securing a significant number of deals with strategic customers in the assembly arena—customers, whom we expect will contribute to our future growth.”

“As always, we see enormous potential in Far East”, Shofman added. “Our penetration into that region is picking up momentum, and we continue to increase our investments there with full force, with the intention of seeing the results during next year”.

During Q3 Valor has taken a series of steps intended to streamline its operation and business processes. “These steps will enable us to become a stronger company next year” – explained Shofman—“They will carry on until the end of Q4, and will set the foundations that will help us to continuously increase our revenues on a quarterly basis while at the same time significantly boost our bottom line results. The implementation of these steps affects our bottom line results for Q3 and may also have a certain affect on Q4, but nevertheless, being a profitable organization has been our declared policy for the last 3 years, and we fully intend to maintain that policy during Q4 and onwards.”

The complete quarterly report can be downloaded from the Investor Relations Section on the Valor corporate website: <http://www.valor.com>.

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ANSYS Reports Best Third Quarter in Company History With Continued Strong Increases in Revenue and Earnings

3 November 2005

ANSYS, Inc. announced third quarter 2005 results. ANSYS' third quarter GAAP results include:

- Total revenue of \$39.0 million, as compared to \$32.3 million in the third quarter of 2004; total revenue of \$114.3 million in the first nine months of 2005 as compared to \$95.7 million for the nine months ended September 30, 2004;
- Net income of \$11.2 million, as compared to \$7.6 million in the third quarter of 2004; net income of \$30.6 million in the first nine months of 2005 as compared to \$22.3 million for the first nine months of 2004;

CIMdata PLM Industry Summary

- An operating profit margin of 36.7% as compared to 32.4% for the third quarter of 2004; an operating profit margin of 35.9% as compared to 32.5% for the first nine months of 2004;
- Diluted earnings per share of \$0.33, as compared to \$0.23 for the third quarter of 2004; diluted earnings per share of \$0.91 through September 30, 2005 as compared to \$0.68 for the first nine months of 2004;
- Cash flows from operations of \$14.2 million for the third quarter of 2005 and \$47.1 million for the first nine months of 2005; and
- Cash and short-term investment balances totaling \$174.5 million as of September 30, 2005.

Excluding acquisition-related amortization, ANSYS' third quarter adjusted (non-GAAP) results include:

- An adjusted operating profit margin of 39.4% as compared to 35.1% for the third quarter of 2004; an adjusted operating profit margin of 38.8% as compared to 35.3% for the first nine months of 2004; and
- Adjusted diluted earnings per share of \$0.35 as compared to \$0.25 for the third quarter of 2004; and adjusted diluted earnings per share of \$0.97 as compared to \$0.73 for the nine-month period ended September 30, 2004.

Third Quarter 2005 Tax Benefit:

The GAAP and adjusted results summarized above include a third quarter tax benefit of \$500,000 related to the completion and filing of the Company's 2004 federal and state tax returns. This benefit had the effect of increasing net income by approximately \$500,000 in the 2005 third quarter and year-to-date results.

"This quarter marked yet another period of strong revenue and earnings growth for the Company," said ANSYS President and CEO Jim Cashman. "As a leader in our industry, we remain focused on the overall direction and health of the business. Looking ahead, our energy and resources will be dedicated to expanding our global markets at a significant pace and striving to develop and deliver innovative engineering simulation solutions to our customers."

Mr. Cashman continued, "Our growth in the third quarter continued to be spread across all major geographic regions and among a broad array of industries. We believe that our success is a result of the mounting competitive and market pressures that our customers and businesses, in general, are facing. Our solutions enable customers who are driven to find new ways to create more innovative, higher quality products, to deliver them to market faster and to minimize development and warranty costs."

During the third quarter of 2005, ANSYS repurchased approximately 115,000 shares at a total cost of \$4.4 million. As of September 30, 2005, 2.0 million shares remain authorized for repurchase under the Company's stock repurchase program.

The adjusted results highlighted above, and the adjusted estimates for 2005 discussed below, represent non-GAAP (Generally Accepted Accounting Principles) financial measures. A reconciliation of these measures to the appropriate GAAP measures, for the three months and nine months ended September 30, is included in the condensed financial information included in this release.

Adjustments to Reported GAAP Financial Results

- Acquisition-Related Amortization:

As previously announced, the Company completed its acquisition of Century Dynamics, Inc. in January 2005. In previous years, the Company also acquired CFX, CADOE S.A. and ICEM CFD Engineering. These acquisitions have all been accounted for as purchases, resulting in the recording of a significant amount of identifiable intangible assets.

ANSYS is providing, and has historically provided, its current quarter GAAP results as well as financial results that have been adjusted for the impact of acquisition-related amortization. The Company believes that these non-GAAP measures supplement its consolidated GAAP financial statements as they provide a consistent basis for comparison between quarters that are not influenced by certain non-cash items and are therefore useful to investors in helping them to better understand the Company's operating results. In certain instances, such as when intangibles are acquired through business acquisitions or become fully amortized, amortization expense associated with acquired intangibles also makes period-to-period comparisons difficult because amortization expense may appear in one period but not in the comparable period. Management uses these non-GAAP financial measures internally to evaluate the Company's business performance; however, these measures are not intended to supersede or replace the GAAP results.

Management's Remainder 2005 and Initial 2006 Outlook

Based on anticipated revenues and expenditures for the remainder of 2005, the Company currently projects that fourth quarter 2005 diluted earnings per share, adjusted to exclude acquisition-related amortization, will be in the range of \$0.35 to \$0.36 based on revenues of \$40 to \$42 million. The Company's current outlook relative to 2005 fourth quarter GAAP diluted earnings per share estimate will be in the range of \$0.33 to \$0.34.

The Company currently projects that 2006 fiscal year adjusted diluted earning per share will be in the range of \$1.45 to \$1.47 based on revenues of \$175 to \$178 million. The preceding estimates do not reflect expenses associated with employee stock options. The Company expects to begin recording stock option expense effective January 1, 2006 in accordance with recent guidance issued by the Securities and Exchange Commission.

Adjusted diluted earnings per share is a supplemental non-GAAP financial measure. Due to the ongoing implementation of Statement of Financial Accounting Standards 123R and the uncertainties related to the magnitude of the Company's equity-based compensation expense during fiscal 2006, we are not able to estimate at this time the magnitude of the impact of equity-based compensation expense on our adjusted

diluted earnings per share for the 2006 fiscal year. Adjusted diluted earnings per share should not be considered as a substitute for net income per diluted share determined in accordance with GAAP.

ANSYS will hold a conference call at 10:30 Eastern Time on November 3, 2005 to discuss third quarter results as well as to provide guidance regarding business prospects. A replay will be available until August 10, by dialing 888-203-1112 or 719-457-0820 and the passcode is "ANSYS" or "26797". The conference call will be webcast live as well as archived and can be accessed, along with other financial information, on ANSYS' website, located at <http://www.ansys.com/corporate/investors.asp>.

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Aspen Technology Announces Date of First-Quarter 2006 Financial Results Release, Conference Call and Webcast

28 October 2005

Aspen Technology, Inc. announced that the company will disclose financial results for its fiscal 2006 first quarter, ended September 30, 2005, after the U.S. financial markets close on Tuesday, November 8, 2005.

In conjunction with this announcement, AspenTech will host a conference call and webcast on November 8, 2005, at 4:45 p.m. (EST) to discuss the Company's financial results, business outlook, and related corporate and financial matters. The live dial in number is: 1-877-239-3024, conference ID code: 1991434. Interested parties may also listen to a live webcast of the call by logging on to AspenTech's website: <http://www.aspentech.com> and clicking on the "webcast" link under the Investor Relations section of the site. A replay of the call will be archived on AspenTech's website and will also be available via telephone at: 1-800-642-1687 or 1-706-645-9291, conference ID code 1991434, for four days, beginning at 8:00 p.m. EST on November 8, 2005.

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Autodesk Extends Invitation to Join Its Third Quarter Fiscal 2006 Financial Results Conference Call on Thursday, November 17th at 2:00 p.m. PST

1 November 2005

Autodesk, Inc. announced that it will broadcast its third quarter fiscal 2006 financial results conference call live via its website on Thursday, November 17, 2005.

WHAT: Autodesk, Inc. Third Quarter FY2006 Financial Results

WHEN: Thursday, November 17, 2005 at 2:00 p.m. PST

HOW: If you would like to listen to the live call, Autodesk will be hosting a webcast at <http://www.autodesk.com/investors>. If you are unable to access the Internet for the call, you may dial in

at 866-510-0707 or 617-597-5376 and reference 19818852 as the pass code. A replay of the call will be available at 4:00 p.m. PST on our website at <http://www.autodesk.com/investors> or by dialing 888-286-8010 or 617-801-6888 and reference 40320593 as the pass code.

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Infor Adds 211 New Customers in Q1 FY2006

3 November 2005

[Infor](#) announced the addition of 211 new customers in its first fiscal quarter of 2006, an increase of 26% from Q4 FY2005. This represents 39 percent of total license revenue, which is up from 29 percent in the previous quarter. In addition, over 1,500 current customers purchased new or enhanced their existing solutions. Infor also announced that its partner channel has continued to grow and represented 58% percent of license revenue for the quarter.

"Our strategy of assembling and innovating solutions designed specifically to help our customers compete in a global economy is resonating as shown by our continued growth in new customers, the confidence demonstrated by our existing customers and the strength of our channel," said Jim Schaper, chairman and CEO.

Additional recent highlights include:

- Infor acquired Intuita Holdings Ltd. in July 2005. Intuita Holdings was a channel partner of the Infor distribution group based in Manchester, U.K. This acquisition is the first for Infor's distribution group in Europe. Infor plans to grow its distribution presence in Europe and gain a leadership position similar to that enjoyed by Infor in North America.
- Infor acquired Formation Systems in August 2005. Based in Southborough, Mass., Formation Systems was a leading provider of product lifecycle management solutions for process manufacturing companies for 10 years. The acquisition will make Infor the first company to offer process manufacturers a Process ERP solution with an integrated product lifecycle management system. This will enable process manufacturers to standardize on a single end-to-end process solution for all their Process ERP, supply chain planning, performance management and product lifecycle management needs.
- Infor acquired Alpine Systems in September 2005. A channel partner for Infor's Visual software for over 10 years, the acquisition of Alpine provides Infor with a strong presence in the Western U.S., a region rich with mid-market manufacturers that has been traditionally underserved by Infor. Alpine has sold and installed Infor's software in over 600 customer sites.

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LECTRA: Q3 2005: Revenues: €52 million, down 2% ; Income from operations: €2.8 million, up 13%

28 October 2005

- Revenues: E52 million, down 2%
- Income from operations: E2.8 million, up 13%

CIMdata PLM Industry Summary

(in millions of euros)	July 1 - September 30	2004	January 1 - September 30	2004
	2005	2004	2005	2004
		pro forma(1)		pro forma(1)
Revenues	52.0	53.1	153.9	166.9
Change (like-for-like) (2)	-2%		-7%	
Income from operations	2.8	2.4	3.8	5.9
Change (like-for-like) (2)	13%		-26%	
Net income	2.0	1.7	2.7	4.1
Free cash flow	0.8	n/a	2.3	n/a
Stockholders' equity at September 30, 2005				
and December 31, 2004			83.1	88.4
Net cash at September 30, 2005 and				
December 31, 2004			5.8	17.5

(1) pro forma 2004 figures correspond to 2004 figures restated on the basis of the 2005 scope of consolidation and of the impact of the new IFRS 2 (stock options) and IFRS 3 (goodwill) reporting standards

(2) "like-for-like" refers to 2005 figures restated at 2004 exchange rates (which are not reported in this condensed table) and pro forma 2004 figures

The Board of Directors of Lectra, chaired by André Harari, today reviewed the unaudited consolidated financial statements for the third quarter and first nine months of 2005.

Business activity continued to be affected by the impact of the abolition of textile quotas by the WTO as of January 1, 2005. The protective measures unilaterally decided by the United States and the compromise negotiated by the European Union with China led to a freeze on investment decisions by Chinese manufacturers.

Against this background, orders for new systems fell by approximately 14% relative to Q3 2004.

Aggregate revenues were again squeezed by weak sales of new systems, which fell by E3.1 million (-10%), while recurring revenues increased E1.7 million (+8%).

The company continued to improve its margins nevertheless, and also to keep overhead costs under control. As a consequence, the operating margin was 5.5%.

First nine-months of 2005: Income from Operations and Net Income Confirm the Improvement in Key Operating Ratios

Sales of New Systems Decline Sharply—Robust Growth in Recurring Contracts

Revenues from new systems sales (E80.1 million) decreased by 17% compared to the first nine months of 2004. Orders for new systems decreased by 19%. This decline was felt strongly in all our main markets.

At the same time, revenues from recurring contracts grew by a robust E4.3 million (+11%). This performance reflects the result of proactive measures taken in prior years. Overall, recurring revenues (E73.9 million)—which also include spare parts and consumables—grew by 8% and accounted for 48% of total revenues.

The dollar's average decline of 3% versus the euro compared to the first nine months of 2004 augmented competitive pressures. The company nevertheless improved its gross margin by 3 percentage points.

Income from operations was E3.8 million, down only E1.5 million relative to the first nine months of 2004 although revenues declined by E11.8 million.

Free cash flow (E2.3 million) was roughly equal to net income.

Lectra Maintains its Intensive Research & Development Effort

Research and development spending (E13 million) is fully expensed in the period and represents 8.4% of total revenues. With more than 220 engineers and technicians, Lectra confirms its priority focus on innovation in consolidating the company's technological leadership.

A key feature of the R&D plan is the development of Lectra's PLM (Product Lifecycle Management) offering for the fashion and apparel industry—a strategic challenge for the company, currently engaging the efforts of 100 employees. This new generation of software entitles customers to manage the entire lifecycle of their products and pilot collection development, notably by integrating PDM (Product Data Management), product design, and development software on a 100% Web-based platform.

Short Term Visibility Remains Poor

In the short term, the turbulence sparked by the abolition of textile quotas continues, and has already proved longer-lasting and more profound than experts predicted. At the same time, the situation in the automotive sector is highly contrasted: certain major U.S. and European manufacturers and equipment makers are struggling, while their Japanese rivals are thriving. This situation has led to even greater complexity and uncertainty. Short-term visibility regarding future activity therefore remains poor where sales of new systems are concerned—recurring revenues are to a large extent known in advance—and the utmost caution is still called for.

Concerning the medium term, the company's view remains unchanged. All companies can be expected to seek to adjust to the new economic conditions by acquiring the indispensable technology means to succeed in today's fundamentally altered conditions. The gradual lifting of economic and geopolitical uncertainty, in particular the ending of the current "wait-and-see" attitude, should trigger a rebound in technology investment, and generate new opportunities for Lectra.

The Management Discussion and Analysis of Financial Condition and Results of Operations for the third quarter and first nine months of 2005 are available at www.lectra.com. Full-year 2005 results will be published on February 9, 2006, after the close of Euronext Paris.

With a staff of 1,600, Lectra is number one worldwide in software and CAD/CAM equipment dedicated to industrial users of textiles, leather, and other soft materials. Lectra is present across a broad array of major markets, including fashion and apparel; luggage & leather goods; footwear; furniture & furnishings; and the automotive, aerospace, and marine industries.

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MRO Software Reports Fourth Quarter and Fiscal 2005 Results

3 November 2005

MRO Software, Inc. announced revenues of \$55.4 million for the Company's fourth quarter and \$199.2 million for the fiscal year ended September 30, 2005.

Total revenues for the fourth quarter were \$55.4 million compared with \$49.9 million for the fourth quarter last year, an increase of 11 percent. Revenues for the fiscal year ended September 30, 2005 were \$199.2 million, compared with \$185.7 million for the prior year, an increase of 7 percent.

On a GAAP basis, the Company reported net income for the fourth quarter of \$5.8 million or \$0.22 per diluted share, compared with net income of \$4.1 million or \$0.16 per diluted share for the same quarter last year, an increase in EPS of 38 percent. On a GAAP basis for the fiscal year ended September 30, 2005, the Company reported net income of \$13.6 million or \$0.52 per diluted share compared with a net income of \$10.3 million, or \$0.41 per diluted share for the prior year, an increase in EPS of 27 percent.

In the fourth quarter of fiscal 2005, the Company recognized a tax benefit of \$3.4 million from the resolution of an IRS examination. Without this tax benefit, the effective tax rate for the year would have been 35.5 percent. In addition, in order to achieve the primary goal of software revenue growth, the Company invested heavily in sales and marketing initiatives that resulted in higher-than-expected sales expenses. The Company also recorded several one-time, unusual charges, the most significant being expenses related to the accelerated vesting of employee stock options, and expenses related to the review and audit of internal controls as required under Section 404 of the Sarbanes-Oxley Act of 2002.

The Company also reports net income on a non-GAAP basis (see Schedule A). Non-GAAP results are adjusted for the amortization of acquired technology and other intangibles and the related tax effects. Non-GAAP net income for the fourth quarter was \$6.1 million, or \$0.23 per diluted share compared with non-GAAP net income of \$4.6 million or \$0.18 per diluted share for same quarter last year, an increase in EPS of 28 percent. For the fiscal year ended September 30, 2005, the Company reported non-GAAP net income of \$15.2 million, or \$0.58 per diluted share compared with non-GAAP net income of \$12.6

CIMdata PLM Industry Summary

million, or \$0.50 per diluted share for the prior year, an increase in EPS of 16 percent. Beginning in the first quarter of fiscal year 2006, the Company will no longer report its results on a non-GAAP basis.

For the fourth quarter, software license revenues were \$20.9 million, compared with \$15.9 million for the same quarter last year, an increase of 31 percent. Support and services revenues were \$34.5 million for the fourth quarter, compared with \$33.9 million for the same quarter last year, an increase of 2 percent.

For fiscal year ended September 30, 2005, software license revenues were \$65.1 million compared with \$52.6 million for the prior year, an increase of 24 percent. Support and services revenues for the fiscal year ended September 30, 2005, were \$134.1 million compared with \$133.1 million for the prior year, an increase of 1 percent.

During the fourth quarter, the Company sold 265 software licenses into a broad range of industries. The Company sold more than 30 MXES licenses, including several customers that purchased the entire Maximo Enterprise Suite of functionality. Customers that purchased MRO Software solutions during the quarter included: Alcatel Portugal, BP Oil International Ltd, China National Offshore Oil Company (CNOOC), Chiron Corp, Computer Sciences Corporation (CSC), Getronics, Guangzhou Hengyun Power Generation, Honeywell International, Kellogg Brown & Root, Kuwait Drilling Company, NYC Department of Transportation, Sacramento Regional Wastewater, Shanghai Zhabei Power Plant, Southwest Airlines, Tampa Port Authority, The Bureau of Engraving and Printing, University of Alabama, U.S. Air Force, U. S. Department of Energy, U. S. Department of State, and the U.S. Navy.

The balance sheet as of September 30, 2005 contained \$133.2 million in cash and marketable securities and no long-term debt. This compares with \$108.4 million in cash and marketable securities as of September 30, 2004, and represents a 23 percent increase year-over-year. For the fourth quarter, deferred revenue was \$32.3 million, and days sales outstanding (DSO) was 66.

"Looking back on fiscal 2005, we achieved a number of significant milestones for the Company," said Chip Drapeau, president and CEO, MRO Software. "In the second quarter we successfully launched Maximo Enterprise Suite, the largest product development project in our history. We executed our industry specific solution strategy for targeted markets producing robust sales results. And finally, total revenues for the fourth quarter were the highest in our history which in turn delivered our highest total revenues for a fiscal year."

"Our focus on software sales growth returned strong top-line results and allowed us to increase earnings and cash," said Peter Rice, executive vice president and CFO, MRO Software. "Looking ahead to fiscal 2006, we are confident that operating margins will improve as sales expenses normalize after our initial MXES roll-out, and the one-time unusual charges, taken in the fourth quarter, are eliminated."

For fiscal year 2006, the Company maintains the guidance provided last quarter, and expects overall revenue growth to be in the range of 5 to 10 percent above fiscal 2005 results. Software revenues are expected to grow in the range of 10 to 20 percent. As a result, the Company expects GAAP EPS to grow in the range of 15 to 25 percent over fiscal 2005 results. The Company expects software revenues for the first half of fiscal 2006 to be in the range of \$28 million to \$32 million.

The Company will conduct its regularly scheduled fiscal fourth quarter and year end 2005 conference call on Thursday, November 3 at 4:30 p.m. EST. A digital recording of the call will be available beginning two hours after the call and will be available through November 13, 2005. To access the replay within the U.S. and Canada, dial (800) 642-1687, international callers should dial (706) 645-9291; all participants should use conference ID: 1466377.

A webcast of the call is available at: <http://www.mro.com/investor>. A transcript of the call will be promptly archived on the Investor Relations portion of the Company's website, and may be found at: <http://www.mro.com/investor>.

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Open Text Reports First Quarter 2006 Financial Results

3 November 2005

Open Text™ Corporation announced unaudited financial results for its first quarter of fiscal 2006, ended September 30, 2005.

Total revenue for the first quarter of fiscal 2006 was \$92.6 million (1), compared to \$85.6 million for the same period last year. License revenue in the first quarter of fiscal 2006 was \$24.9 million, compared to \$23.9 million for the same period last year. Revenue was broadly based, with 50% from North America, 45% derived from Europe and 5% from the Middle East and Asia.

Adjusted net income in the first quarter of fiscal 2006 was \$6.3 million or \$0.13 per share on a diluted basis, compared to \$3.9 million or \$0.07 per share on a diluted basis for the same period last year. (2)

Beginning July 1, 2005, Open Text adopted Financial Accounting Standard No. 123R, "Share-based payment" with respect to the expensing of share-based compensation. The U.S. generally accepted accounting principles ("US GAAP") net income figure reported today is inclusive of share-based compensation expense of \$1.4 million or approximately \$0.03 per share on a diluted basis.

During the first quarter of fiscal 2006 the Company took a pre-tax restructuring charge of \$18.1 million.

Net loss in accordance with US GAAP for the first quarter was \$12.9 million or \$0.27 per share on a diluted basis compared to a loss of \$1.0 million or \$0.02 per share on a diluted basis in the same period last year.

Operating cash flow in the first quarter of fiscal 2006 was \$0.3 million, compared to \$5.1 million in the same period last year. Accounts receivable as of September 30, 2005 was \$73.6 million, compared to \$66.1 million at the same time last year. Days Sales Outstanding (DSO) was 71 days in the first quarter of fiscal 2006, compared to 70 days in the same period last year. Deferred revenue was \$68.4 million in the first quarter of fiscal 2006, compared to \$64.3 million at the same time last year.

At the end of the first quarter of fiscal 2006, the Company had \$68.1 million in cash and cash equivalents. Open Text has no debt.

"Meeting our profitability goals is my key objective, and our restructuring program has put us on track to meet these goals," said John Shackleton, President and CEO of Open Text.

Guidance

For the second quarter of fiscal 2006 ending December 31, 2005, the Company estimates revenue will be in the range of \$103 million to \$113 million with adjusted EPS on a diluted basis of approximately \$0.21 to \$0.32. (3)

On September 8, 2005, the Company announced that it would take a pre-tax restructuring charge of \$25 million to \$30 million of which approximately \$18 million was recognized in the first fiscal quarter of 2006. The Company expects to recognize the remainder of the restructuring charge during its second fiscal quarter of 2006.

Open Text's actual results for future periods, including any charges taken, may vary from the guidance presented and such variations may be material. Please see the Safe Harbor language below and note (3) for information on the risks and uncertainties that may cause such variations. Please see note (2) below for a reconciliation of non-US GAAP based financial measures used in this press release, to US GAAP based financial measures.

Open Text will host a conference call on November 3, 2005 at 5:00 p.m. ET to discuss final financial results for its first quarter of fiscal 2006. A replay of the call will be available beginning November 3, 2005 at 7:00 p.m. ET through 11:59 p.m. on November 17, 2005 and can be accessed by dialing 416-640-1917 and using pass code # 21156960.

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

<http://www.opentext.com/events/event.html?id=5431388>.

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PTC Reports Fourth Quarter and Fiscal Year 2005 Results; Company Delivers 15% Year-Over-Year Revenue Growth in the Fourth Quarter; 9% Revenue Growth for the Fiscal Year

2 November 2005

PTC reported revenue of \$195.1 million for the fourth fiscal quarter ended September 30, 2005, up 15% from \$170.1 million for the same period last year. The growth was driven by a combination of strong organic growth as well as the addition of revenue from Arbortext, which PTC acquired during the quarter. For the fiscal year, revenue grew 9% to \$720.7 million, compared to \$660.0 million in fiscal 2004.

"2005 was a great year for PTC," said C. Richard Harrison, president and chief executive officer. "We exceeded our goals for organic revenue growth and also expanded our business through strategic acquisition. We strengthened our ability to serve existing customers with new product and service offerings. And we leveraged our own solutions as well as those we acquired to enter new markets, such as Retail, Footwear & Apparel, and Life Sciences."

As previously announced, PTC adopted FAS 123® during the fourth quarter, which requires the expensing of stock-based compensation. Additionally, as previously announced, commencing with fourth quarter 2005 results, PTC has begun to provide a non-GAAP income statement to supplement its GAAP income statement. Accordingly, earnings and expense results are provided below on both a GAAP and a non-GAAP basis, and we have provided a reconciliation between GAAP and non-GAAP results in the attached financial tables.

GAAP net income for the fourth quarter was \$17.3 million, or \$0.06 per diluted share, compared with GAAP net income of \$42.0 million, or \$0.15 per diluted share, in the year-ago period. Non-GAAP net income, which excludes restructuring charges, stock-based compensation, acquisition-related amortization, in-process research and development, and their related tax effects, as well as the effect of one-time tax items, was \$24.6 million for the fourth quarter, or \$0.09 per diluted share, compared to \$25.4 million in the year-ago period, or \$0.09 per diluted share.

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For the fiscal year, GAAP net income was \$83.6 million, or \$0.30 per diluted share, compared to \$34.8 million, or \$0.13 per diluted share, in fiscal 2004. Non-GAAP net income was \$87.2 million, or \$0.31 per diluted share, compared to \$61.1 million, or \$0.22 per diluted share, in fiscal 2004. Cash and investments were \$204.4 million at the end of the fourth quarter, down from \$403.0 million at the end of the third quarter, reflecting the cost of the Arbortext acquisition (\$190 million) and the employee stock option buyback (\$12.7 million).

Revenue Metrics

With the acquisition of Arbortext and the launch of Pro/INTRALINK 8.0, PTC has begun to classify its revenue into two new categories:

- "Desktop Solutions", which includes Pro/ENGINEER, Arbortext Editor and all other solutions that help companies create content and improve desktop productivity. In the commentary below, this category is compared to the revenue category formerly called Design Solutions.
- "Enterprise Solutions", which includes Windchill, Pro/INTRALINK, Arbortext Publishing Engine and all other solutions that help companies collaborate, manage and publish information across an extended enterprise. In the commentary below, this category is compared to the revenue category formerly called Collaboration and Control Solutions.

Total Desktop Solutions revenue for the fourth quarter was \$129.3 million, which includes \$37.8 million of license revenue. Both license revenue and total revenue grew 6% from the year-ago period. For fiscal year 2005, PTC delivered total Desktop Solutions revenue of \$503.1 million, up 5% from fiscal 2004.

Total Enterprise Solutions revenue grew 37% in the fourth quarter to \$65.8 million from \$47.9 million in the fourth quarter of 2004. Enterprise Solutions license revenue was \$23.0 million, up 40% from \$16.4 million in the year-ago period. For the fiscal year 2005, PTC delivered total Enterprise Solutions revenue of \$217.6 million, or 21% growth from fiscal 2004.

Revenue growth in both categories reflects organic growth as well as growth through acquisition, primarily from the contribution of Arbortext, which PTC acquired on July 19, 2005.

In the fourth quarter, PTC received orders from leading organizations, including AGCO Corporation, Alion Science and Technology Corporation, Boeing Company, Casio Hitachi Mobile Communications Co., Ltd., Fila USA Inc., Hino Motors, Ltd., Mitsubishi Electric Engineering Co., Ltd., NASA, Naval Reactors Program (U.S. Navy), Northrop Grumman Corporation, Novellus Systems Inc., Pfizer Inc., Siemens VDO Automotive AG, Turbomeca SA, and Volkswagen AG. PTC's reseller channel delivered \$34.8 million in total revenue during the quarter. For the fiscal year, PTC's channel delivered \$138.6 million in total revenue.

"We are executing very well and are in a position to deliver accelerated revenue growth in 2006," continued Harrison. "We have articulated a highly differentiated vision with our integral product development system. Our solutions are unmatched in breadth, ease-of-use and ease-of-deployment, and

CIMdata PLM Industry Summary

we are building momentum in new and existing accounts of all sizes. We are enthusiastic about our outlook as a result, and we are poised to deliver 12% revenue growth in 2006."

First Quarter and Fiscal Year 2006 Financial Outlook

PTC's revenue forecast for the first quarter of fiscal 2006 is between \$190 million and \$195 million. On a GAAP basis, first quarter total costs and expenses are expected to be approximately \$177 million to \$182 million, and earnings per share are expected to be between \$0.02 and \$0.04. Total non-GAAP first quarter operating costs are expected to be approximately \$165 million to \$170 million. The Company expects non-GAAP first quarter earnings per share to be between \$0.06 and \$0.08. These non-GAAP operating cost and earnings expectations exclude the following first quarter estimated expenses:

- Approximately \$10 million of expense related to stock-based compensation. This expense is slightly higher than previously expected because the Company has decided to implement a mix of performance-based and time-based equity incentive plans. PTC previously used only time-based equity incentives, which carry a lower initial accounting expense than do performance-based equity incentives.
- Approximately \$2 million of acquisition-related amortization expense.

For the fiscal year ending September 30, 2006, PTC expects revenue to be between \$805 and \$815 million. On a GAAP basis, fiscal year 2006 earnings per share are expected to be between \$0.18 and \$0.20. The Company expects non-GAAP earnings per share to be between \$0.35 and \$0.37 for the fiscal year. These non-GAAP earnings expectations exclude the following full-year estimated expenses:

- Approximately \$40 million of expense related to stock-based compensation.
- Approximately \$9 million of acquisition-related amortization expense.

Other Important Information

Separately, PTC has identified irregularities in certain sales orders in the Asia-Pacific region, principally related to PTC's 2001-2003 fiscal years. The orders identified are not material to the results for these fiscal years, but PTC's investigation has not been completed. PTC expects to complete its investigation in time for the filing of its Annual Report on Form 10-K in December.

Important Information about Non-GAAP References

References by the Company to non-GAAP operating costs and non-GAAP earnings per share refer to costs and expenses or earnings per share excluding stock-based compensation cost, amortization of acquisition-related intangible assets, in-process research and development write-offs associated with acquisitions, restructuring charges, and their related tax effects, as well the effect of one-time tax items, if any. GAAP requires that these costs and charges be included in costs and expenses and accordingly used to determine operating income (loss) and earnings per share. The Company's management uses non-

CIMdata PLM Industry Summary

GAAP operating costs, and associated non-GAAP net income (which is the basis for non-GAAP earnings per share) to make operational and investment decisions, and the Company believes that they are among several useful measures for an enhanced understanding of our operating results for a number of reasons.

First, excluding the stock-based compensation cost from GAAP operating income enables management and investors to perform a meaningful comparison of the Company's operating results to prior periods. In these prior periods, the Company's GAAP financial results were not required to include expense associated with stock-based compensation, and now these expenses will be distributed among the functional expense line items in the GAAP presentation. Second, although the Company undertakes analyses to ensure that its stock-based compensation grants are in line with peer companies and do not unduly dilute shareholders, the Company allocates these grants and measures them at the corporate level. Management excludes their financial statement effect when planning or measuring the periodic financial performance of the Company's functional organizations since they are episodic in nature and unrelated to our core operating metrics. Likewise, we believe that excluding items such as in-process R&D write-offs and amortization of intangible assets associated with acquisitions, or restructuring charges that are not directly attributable to our ongoing operations and that do not generally fluctuate in correlation with periodic performance, provides investors with information that helps to compare period-over-period operating performance by highlighting the effect of the acquisitions or restructuring activities on our results of operations. In addition, the Company's management excludes the financial statement effect of these items in creating operating budgets for the Company's functional business units and in evaluating and compensating employees due to the fact that it is difficult to forecast these expenses. Lastly, we believe that providing non-GAAP earnings per share affords investors a view of earnings that may be more easily compared to peer companies and enables investors to consider the Company's earnings on both a GAAP and non-GAAP basis in periods when the Company is engaged in acquisition activities or undertaking non-recurring activities.

The Company believes these non-GAAP measures will aid investors' overall understanding of the Company's results by providing a higher degree of transparency for certain expenses, and providing a level of disclosure that will help investors understand how the Company plans and measures its own business. However, non-GAAP net income (loss) should be construed neither as an alternative to GAAP net income (loss) or earnings (loss) per share as an indicator of our operating performance nor as a substitute for cash flow from operations as a measure of liquidity because the items excluded from the non-GAAP measures often have a material impact on the Company's results of operations. Therefore, management uses, and investors should use, non-GAAP measures in conjunction with our reported GAAP results.

Earnings Call Webcast

The Company will provide detailed financial information and an outlook update on its fourth quarter and fiscal year 2005 results conference call and live webcast on November 2, 2005 at 10 a.m. ET. This earnings press release and accompanying financial and operating statistics will be accessible prior to the conference call and webcast on the Company's web site at <http://www.ptc.com/for/investors.htm>. In addition, the live webcast may be accessed at the same Web address. To access the live call, please dial 1-888-566-8560 (in the U.S.) or +1-517-623-4768 (international). Please use passcode PTC. A replay of the call will be available until 5:00 p.m. ET on November 7, 2005. To access the replay via webcast, please visit <http://www.ptc.com/for/investors.htm>. To access the replay by phone, please dial 402-220-9726.

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RAND Worldwide® Announces Financial Results for the Third Quarter of 2005

3 November 2005

RAND A Technology Corporation operating as RAND Worldwide ® (“RAND” or the “Company”) announced its financial results for the three- and nine-month periods ended September 30, 2005.

2005 Third Quarter Highlights

- Revenue was \$23.8 million, an increase of 8% compared to Q3’04
- IMAGINiT revenue was \$16.5 million, an increase of 57% compared to Q3’04
- Improvement in gross profit margin to 55.5%, from 47.5% in Q3’04
- EBITDA was \$0.5 million, compared to negative EBITDA of (\$1.8) million in Q3’04
- Net income from continuing operations was \$11K, or \$0.00 per share, compared to a net loss from continuing operations of (\$7.9) million, or (\$0.47) per share in Q3’04

“We are very pleased with our continuing improved results for the quarter and the nine months and the continued positive movement of our sales and services strategy. The third quarter results were driven by the continued growth of our IMAGINiT division which is being propelled by strong end-user demand for its core Autodesk products, a steady pipeline of opportunities in the AEC market and the addition of SageCAD, now IMAGINiT Northeast, acquired in Q1 of this year,” said Frank Baldessara, President and CEO of RAND Worldwide. “Both software and services revenue grew significantly during the quarter and we continue to invest in the IMAGINiT operations with our October 2005 acquisition with the purchase of certain assets of Continental Imaging Products which expands our presence in Alberta and provides us with an established platform to pursue opportunities in the oil and gas industry.”

“Our PLM, or Dassault-related division, continued to focus on sales of higher margin software and services products. We are building a solid base of customers in this division and will look to expand those relationships in future quarters by working to introduce our broad base of services to those clients,” added Mr. Baldessara. “With the majority of our total revenue now generated in North America we will continue to seek organic and acquisitive opportunities to expand our presence in this market while also maintaining an eye to further develop our operations overseas, primarily in rapidly growing Asia Pacific region.”

Financial Review

Following the previously announced 2004 year end sale of its five European subsidiaries to Dassault Systèmes (“Dassault”) that resulted in the elimination of 100% of the Company’s debt, combined with the closure and exit of unprofitable operations in France, Italy, Ireland Shared Services and Poland, the

Total revenue in the third quarter was \$23.8 million, an increase of 8% compared to the same period in 2004. RAND generates approximately 70% of its revenue in U.S. dollars and as a result, the year-over-year decline of the U.S. dollar relative to the Canadian dollar negatively impacted revenue by \$1.3 million for the quarter.

RAND IMAGINiT accounted for \$16.5 million (69.3%) of this total, while RAND PLM accounted for \$7.3 million (30.7%). RAND IMAGINiT revenue consisted of: \$10.9 million in software revenue; \$5.5

million in services revenue; and, \$149,000 in hardware revenue. RAND PLM revenue consisted of: \$1.8 million in software; \$5.4 million in services; and, \$122,000 in hardware.

RAND's gross profit margin improved in Q3'05 to 55.5%, compared with 47.5% for the same period last year. This improvement in gross margin is a result of enhancing the revenue mix with an increase in higher margin software and services, and a reduction of low margin hardware sales, as well as improved productivity in the overall services business.

Operating expenses were \$12.8 million, or 54% of revenue, in Q3'05, compared to \$12.3 million, or 56% of revenue in Q3'04. Expenses remained relatively steady primarily due to ongoing efforts to contain costs. The Company recorded EBITDA of \$0.5 million in the third quarter of 2005, versus an EBITDA loss of (\$1.8) million in the third quarter of 2004. EBITDA increased year-over-year due to a greater percentage of revenue being generated from higher margin products and services as well as ongoing efforts to minimize costs.

Net income from continuing operations was breakeven at \$11K, or \$0.00 per share, compared to a net loss from continuing operations of \$7.9 million, or (\$0.47) per share in the same period last year. The net loss in the third quarter of 2004 included a one-time \$5.5 million restructuring charge related to the closing of several unprofitable business locations in Europe.

RAND maintains a strong balance sheet from which to pursue its growth initiatives. At September 30, 2005, the Company had cash and short-term investments totaling \$15.1 million, compared with \$6.4 million at September 30, 2004 and \$8.4 million at December 31, 2004. During the third quarter RAND completed an equity private placement of 3,000,000 common shares at \$2.75 per share, generating net proceeds of \$7.6 million to the Company. The funds will be used to support RAND's organic and acquisitive growth initiatives. To further strengthen its balance sheet, during the quarter RAND established a new global banking relationship and a \$5.0 million credit facility with HSBC Group ("HSBC"). To date, RAND has not drawn on this credit facility and the Company remains debt-free.

"The third quarter saw the achievement of two important financial milestones related to strengthening our financial position to support our growth activities," said Kriss Bush, Chief Financial Officer of RAND Worldwide. "With our private placement we raised \$7.6 million, engaged a syndicate of four investment dealers, expanded our base of institutional investors and helped to increase the liquidity of our shares. Meanwhile, establishing a credit facility with HSBC is a strong testament to the positive strides we have made over the past year to improve our financial situation and to position our business for accelerated growth. A global bank like HSBC is ideal for RAND as we now have operations in 14 countries and we will continue to prudently pursue opportunities to further expand the geographical reach for our products and services."

More complete financials are available at

http://www.rand.com/na/pdf/news/3Q05_Nov3_05_FINAL.pdf.

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Implementation Investments

Airbus Extends Strategic Partnership With MSC Software to Improve Virtual Product Development Process

1 November 2005

[MSC.Software Corp.](#) announced that Airbus, global manufacturer of commercial and military transport aircraft, extended their strategic partnership with a multi-million dollar agreement. This strategic partnership enables Airbus engineers to utilize a comprehensive range of products from the MSC.Software portfolio under the MSC.MasterKey system.

"We are very pleased and honored that Airbus has chosen MSC.Software as its strategic partner for Virtual Product Development (VPD) Solutions," said Bill Weyand, chairman and CEO, MSC.Software. "MSC's SimOffice, which is an open standards based tightly integrated suite of simulation software solutions, coupled with MSC.MasterKey gives Airbus engineers the best of both worlds—a unique Aerospace solution along with this industry's best licensing system. With the new expanded Alliance Partnership, we are confident that Airbus engineers around the world will realize new levels of functionality, flexibility, and an integrated suite of solvers. We look forward to expanding our long term partnership with Airbus."

Since the introduction of the A300 in 1974, Airbus has gained a worldwide reputation for innovation, today producing 13 aircraft models, from the 100-seat A318 jetliner to the 555-seat A380. With enterprise wide, multi- disciplinary simulation requirements, and the lifecycle of aircraft extending for decades, engineers at Airbus require a broad and integrated virtual product development solution capable of meeting their needs for years to come.

MSC.MasterKey is a flexible solution for manufacturing organizations requiring single source access to a diverse range of VPD solutions. MSC.MasterKey allows customers to replace individual product licenses with software tokens, providing access to multiple simulation software tools, on demand. The agreement concludes an extensive technology and business value evaluation, and Airbus engineers across Europe will benefit from a full range of stand-alone and CAD-embedded simulation tools from the SimOffice and SimDesigner product suites.

"Strong, close, and long-term partnerships with enterprise level organizations such as Airbus are central to our philosophy of customer driven product development, and highly targeted service delivery. The extension of our relationship with Airbus is a further confirmation of the business benefits which MSC.Software products, licensed via MSC.MasterKey, bring to the global aerospace market," Amir Mobayen, MSC.Software, Senior VP, EMEA (Europe, Middle-East & Africa).

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Cadmus Selects eB for First Implementation in New Zealand

November 2005

Cadmus Technology Limited, one of New Zealand's leading exporters of EFTPOS systems (<http://www.cadmus.co.nz>), have selected eB from Spescom Software for the purpose of controlling and distributing information regarding the component physical items used in their manufacturing processes. Initially eB will also be used to provide baselines and Bills of Material for planning their production requirements, and the system will be extended over time to handle component suppliers and client contacts.

This project extends the reach of Spescom Software in the Asia Pacific Region, and was originated and will be managed through Spescom's UK operations.

For further information on eB or Spescom Software, please contact Ben Martin on +44 7715 175470, or Paul Armstrong on +44 7717 860655.

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China Telecom Leader ZTE, Ltd. Chooses XtremePCB from Mentor Graphics to Optimize Team Design

3 November 2005

[Mentor Graphics Corporation](#) announced that ZTE, Ltd., the largest listed communication device maker and national wireless supplier in China, has purchased XtremePCB. This product, available as part of Mentor's Expedition Enterprise flow, helps facilitate a team design environment, allowing multiple members of a PCB design team to work simultaneously on a design from a single database on a global network, whether they are in the same office or dispersed all over the world. This team design environment significantly reduces ZTE's design cycle time to meet today's accelerated time-to-market demands.

"Xtreme PCB is an innovative and unique technology, utilizing cooperative parallel design in real-time," said Liu Zhang, EDA director, ZTE. "XtremePCB provides a new platform for design process management, rational allotment of specialized design resources and can coordinate projects done in global dispersed locations. It is a new, highly-efficient solution to break the time limit of bursting PCB design tasks."

"Previous design collaboration methodologies required lengthy and error prone sessions to resynchronize parallel efforts of PCB design," said Henry Potts, vice president and general manager, System Design Division, Mentor Graphics. "With XtremePCB, Mentor has answered a challenge posed by our customers who asked for a tool that allowed simultaneous changes from multiple team members. For our customers like ZTE, with aggressive time-to-market goals and either large, global design teams or technology specialized design resources, XtremePCB enables real-time, automated feedback for complex, PCB designs incorporating diverse design technologies."

XtremePCB is a new technology that enables multiple PCB designers to work on a single design database simultaneously. Unlike traditional team design methodologies that employ a split-and-join approach to design collaboration, XtremePCB requires no physical partitioning and every designer sees all other client edits in real-time. In addition, XtremePCB offers a unique benefit to a company's design process. With XtremePCB users may enter and exit designs at will, allowing designers to better utilize their time on projects as well as enable companies to take better advantage of a designer's singular expertise.

ZTE is the path-breaker of Chinese telecom device manufacturing and a comprehensive telecom device and service provider. It has 3 major products series of wireless, networking and terminal product (hand phone). Besides providing comprehensive solutions of various networks to global customers; ZTE also offers professional, all climate and all area quality service and is making way into international telecom operation. In 2004, contact sales of 34 billion RMB was made.

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Delcam Looks To Build on Autosport Success at Autosport Engineering

November 2005

CADCAM developer Delcam will be at the Autosport Engineering exhibition to be held at the NEC, Birmingham, on 12th and 13th January. The company is already well known in racing circles through the use of its PowerINSPECT inspection software by the FIA and through its contribution to the development of the new engine for the A1 Grand Prix series by ZYTEK Engineering.

Other Delcam's customers in the autosport industry include Proton KR, the only independent motorbike team taking part in the Moto GP series, Centro Ricerche Cagiva, the research centre for the Cagiva, Agusta and Husqvarna motorcycle brands, ATR Group, pioneers of the use of carbon fibre-reinforced plastics in autosport, and Brembo, supplier of braking systems to most prestigious car and motorbike manufacturing companies.

Technical staff from the Fédération Internationale de l'Automobile (FIA) use a combination of Krypton's Rodym optical co-ordinate measuring system and PowerINSPECT for all pre- and post-race inspection of Grand Prix cars to check that the cars meet both safety and technical specifications.

A simplified model of each racing car that defines minimum and maximum dimensions in all critical areas of the design is stored in the PowerINSPECT software. The model is divided into areas where bodywork material must be present and areas where no material is allowed.

After all the qualifying sessions, the leading cars are inspected with the Krypton system. Each measurement is fed into the PowerINSPECT software to determine whether the point is inside or outside the legal limits. The results are displayed instantly, allowing additional measurements to be made in any areas of concern to the inspector.

Delcam's PowerMILL CAM system was chosen by ZYTEK Engineering, a specialist in automotive control systems, race engine design and development, powertrain development and hybrid-electric vehicles, for the manufacture of all engines for the new A1 Grand Prix series.

The A1 Grand Prix contract demanded a different approach to engine manufacture, according to ZYTEK Production Manager, Ian Edmonds. "With our previous ZG348 sports car engines, there were regular design changes so each component was produced in small quantities or even as a one-off. For the new A1 Grand Prix series, each team must have exactly the same engine so we had to produce more than 50 identical examples," he explained. "We realized that we would need to speed up our manufacturing techniques, especially the time we were taking to machine the engine ports, in order to produce these increased volumes."

"One change that we wanted to introduce was continuous five-axis machining, instead of using only positional five-axis techniques. We had these capabilities on some of our six Mori Seiki machines.

However, our CAM system was unable to produce continuous five-axis toolpaths so we needed to look for an alternative.”

Mr. Edmonds investigated a number of different systems but found that “None of the other software could do what PowerMILL could. We were looking to reduce the time for finish machining of the engine ports by two-thirds,” said Mr. Edmonds. “Our early results showed that this was an achievable target.”

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Exar Triples Verification Productivity Using Synopsys' VCS Solution with SystemVerilog Testbench Automation

31 October 2005

[Synopsys, Inc.](#) announced that Exar Corporation, a provider of high-performance, mixed-signal silicon solutions for the worldwide communications infrastructure, has adopted Synopsys' VCS® comprehensive RTL verification solution, a key component of the Discovery™ Verification Platform, to speed chip development and increase verification quality. Exar has taken advantage of the VCS solution's SystemVerilog testbench automation capabilities to develop an advanced, extensible verification environment based on open standards, leveraging the latest coverage-driven, constrained-random methodologies. Exar used these methodologies with the VCS solution to identify bugs early in the design process where they were easily corrected.

"After evaluating other tools, we chose the VCS solution because of its leading support for verification with SystemVerilog and the high performance of its Native Testbench technology," said Sameer Goyal, principal engineer at Exar. "With the VCS solution, we developed a sophisticated coverage-driven, constrained-random verification environment using SystemVerilog with just four months of effort. This helped us shorten the development cycle down to one third compared with previous projects."

Exar engineers developed a sophisticated SystemVerilog verification environment, using the VCS solution to simulate a complex design, generate randomized stimulus and measure functional coverage. The Exar team was able to quickly learn the SystemVerilog language and create an advanced testbench, which enabled full randomization of many aspects of the environment, from port configuration and the number of ports in the design, to characteristics of the packet and its sub-fields. They also developed a high-level reference model for checking correct design behavior, taking advantage of the VCS solution's support of advanced SystemVerilog language features, including object-oriented programming, classes, functional coverage, arrays, mailboxes and semaphores. Exar was able to quickly find unanticipated corner-case bugs in both the design and reference model by using the VCS solution's powerful constrained-random stimulus generation to create thousands of realistic tests.

"The VCS solution's support for SystemVerilog verification features enables customers like Exar to quickly build and deploy advanced testbenches based on open standards," said Manoj Gandhi, senior vice president and general manager, Verification Group at Synopsys, Inc. "VCS single-compiler technology for design, testbench, assertions and coverage provides higher performance, enabling our customers to verify designs in less time and with higher confidence."

The Discovery Verification Platform is a unified environment that provides high performance and efficiency of interaction among all platform components, including mixed-HDL simulation, mixed-signal, system-level verification, assertions, DesignWare® verification intellectual property, code coverage, functional coverage, testbenches and formal analysis. Combined with support for industry-standard hardware design and verification languages, including Verilog, VHDL, SystemVerilog, SystemC™ and OpenVera®, and Synopsys' proven Reference Verification Methodology, the Discovery Verification Platform helps designers achieve higher levels of verification productivity by contributing to first-time silicon success within required project cycles.

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FileNet Announces 2005 Innovation Award Finalists

3 November 2005

FileNet Corporation announced the finalists of its 2005 FileNet Innovation Awards.

Winners and finalists will be recognized at FileNet's upcoming user conference in Las Vegas, Nevada, Nov. 6-9. Customers and ValueNet® partners from five industry categories submitted entries for Best Enterprise Content Management (ECM) solution and Best Business Process Management (BPM) application or solution.

The finalists for the Best ECM application or solution are:

Cross-Industry and Manufacturing:

AMEC Paragon, Inc. – AMEC Paragon provides engineering, design/drafting, project management, procurement, construction management, inspection, completions/hookup/commissioning, operations (asset support), and training services to the oil, gas and pipeline industries.

Exempla Healthcare – A leading Denver area healthcare provider, with over 8,500 employees and 900 operating beds, volunteers and affiliated physicians, Exempla Healthcare (EHC) is a not-for-profit, community-based organization sponsored by the Lutheran Medical Center Community Foundation and the Sisters of Charity of Leavenworth Health System.

Pedernales Electric – Pedernales is a private electric utility in Texas, delivering electricity to more than 196,000 members throughout 8,100 square miles. The largest electric cooperative in the US, Pedernales was formed in 1938 and its territory includes some of the fastest-growing counties in the state.

Financial Services:

Citigroup / CIB Tech – Citigroup has over 200 million customer accounts in more than 100 countries. FileNet solutions are developed and owned centrally for the whole of Citigroup's EMEA (Europe, Middle East and Africa) region by CIB Tech Germany, the development arm of Citigroup Corporate & Investment Bank.

CIMdata PLM Industry Summary

Overseas Chinese Banking Corp. Ltd. (OCBC Bank) – OCBC Bank is Singapore's local bank. It has assets of S\$137 billion and a network of 112 branches and representative offices in 14 countries and territories, including Singapore, Malaysia, Brunei, Indonesia, China, Hong Kong SAR, Brunei, Japan, Australia, UK and the USA.

Wells Fargo Card Services – Wells Fargo is a diversified financial services company, providing banking, insurance, investments, mortgage and consumer finance for more than 23 million customers through 6,160 stores, the internet and other distribution channels across North America and elsewhere internationally.

Government:

Land Transport Authority Singapore – The Land Transport Authority (LTA) is a statutory board under the Ministry of Transport that spearheads land transport developments in Singapore.

Minnesota Department of Employment and Economic Development —The Minnesota Department of Employment and Economic Development (DEED) is the state's principal economic development agency, with programs promoting business recruitment, expansion, and retention; workforce development; international trade; and community development.

Pennsylvania Department of Environmental Protection Insurance –The Pennsylvania Department of Environmental Protection, Bureau of Waste Management is a division of Reporting and Fee Collection and responsible for tracking and monitoring the generation, transportation, treatment, storage and disposal of hazardous and non-hazardous waste materials within the Commonwealth of Pennsylvania.

Insurance:

Allstate Insurance Company Specialty Operations –A Fortune 50 company, with \$149 billion in assets, Allstate sells 13 major lines of insurance, including auto, property, life and commercial. The primary function of the Specialty Operations division of Allstate Insurance Company is dissolution of discontinued entities and businesses.

American Family Insurance – American Family Insurance is a Fortune 500 company with more than 4,000 agents in 17 states. It offers vehicle, property, life, health, business and farm/ranch insurance, plus annuities and consumer loans.

Best Business Process Management (BPM) application or solution:

Federal Public Service Finances (FPS Finances) – The Belgian Government's Federal Public Service Finance (FPS Finance) is responsible for the administration of the country's income tax, corporation tax, capital gains tax, national insurance, and other taxation measures. It is also responsible for the payment of tax credits.

MetLife Auto & Home Insurance – MetLife Auto & Home, an affiliate of MetLife, Inc., is one of the nation's leading personal lines property and casualty companies with more than 2.7 million policies in force. Founded in 1972, MetLife Auto & Home sells personal lines property and casualty policies in all 50 states and the District of Columbia.

The Mills Corporation – The Mills Corporation is a real estate investment trust that develops, finances, owns, leases, and operates retail and leisure properties in the US and abroad. Its portfolio consists of 42 properties operating globally.

Judging Committee

A panel of the following industry analysts, press, consultants and FileNet senior executives judged this year's entries:

Geoffrey Bock, Principal, Bock & Company

Bryant Duhon, Editor, AIIM eDoc Magazine

Doug Henschen, Editor, Intelligent Enterprise Magazine

Rich Medina, Principal Analyst, Doculabs, Inc.

Bruce Silver, Principal, Bruce Silver Associates

FileNet senior executives on the judging panel were Dr. Dan Whelan, Vice President and Chief Technology Officer, and Dave McCann, Senior Vice President of Products.

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Leading Gas Equipment Manufacturer TOTALGAZ Deploys SolidWorks 3D Design Software to Speed Products to Market

31 October 2005

One of Romania's largest privately owned makers of gas regulators and control stations is implementing 32 licenses of SolidWorks® Office Professional and SolidWorks Office Premium software to accelerate product development from design through prototyping, marketing, and delivery.

TOTALGAZ S.A. is also using SolidWorks PDMWorks® product data management software and PDMWorks Advanced Server to manage TOTALGAZ's design documents. These solutions keep the company's revisions straight and link design with other enterprise departments, such as marketing and manufacturing. They also trigger the execution of specific tasks, such as publishing recently approved documents as PDF files.

CIMdata PLM Industry Summary

In 11 years of business, TOTALGAZ has become a leader in its market by quickly designing and delivering standard and customized gas regulators and control stations in Romania and neighboring countries. Gas regulators are standard equipment in every customer's home or business, while control stations let gas providers centrally manage flow from their premises.

TOTALGAZ originally chose SolidWorks 3D mechanical design software to replace Autodesk® Mechanical Desktop® software because SolidWorks is faster, more stable, and better capable of handling large assemblies and drawings. TOTALGAZ now completes complex product designs twice as fast and will implement the remaining 20 seats of SolidWorks Office Professional and SolidWorks Office Premium by November.

SolidWorks software's ease of use and automation tools let the TOTALGAZ engineering team customize designs to customer specifications without increasing delivery time. "Our gas control stations contain many pipes, fittings, gas regulators, and other standard parts that are difficult to design without a proper 3D system, and the SolidWorks Routing product included in SolidWorks Office Premium is the best tool to design complicated pipe routes," said Gabriel Valcescu, technical director at TOTALGAZ S.A. "SolidWorks helps us easily verify interferences and collisions within control stations and eliminate design errors. Using PhotoWorks™ rendering software, we have generated all the images needed for marketing materials and product presentations, and with SolidWorks eDrawings™ collaboration software we can e-mail 3D content to our customers even before the product is released to manufacturing."

The TOTALGAZ team is also using COSMOSWorks® Designer to test assemblies at various pressures and apply changes by leveraging the associativity between SolidWorks 3D models and COSMOSWorks design analysis software.

"TOTALGAZ is a company that has fully harnessed the power of software to automate design and analysis at every possible turn," said Michel Gros, SolidWorks Corporation's executive vice president of Europe. "SolidWorks software's ease of use and COSMOS® integration promises to reap dividends in time, cost, and productivity for decades to come."

TOTALGAZ relies on SolidWorks reseller CAD Works for ongoing software training, implementation, and support.

TOTALGAZ is a market leader in the design, development, and production of the complete range of gas regulators and control stations. Headquartered in Iasi, Romania, TOTALGAZ is a dynamic company that enjoys a solid reputation for providing large and small gas control products. Its success continues outside Romania with TOTALGAZ installing its control stations in the neighboring countries in Eastern Europe. For further information about TOTALGAZ, visit <http://www.TOTALGAZ.ro>.

CAD Works, with offices in four locations across Romania, represents and supports SolidWorks and complementary FEA, CAM, and PDM solutions provided by SolidWorks Gold Partners and Solution Partners. Since 1996, CAD Works has acted as a SolidWorks reseller and has provided organizations with a total solution, including support, training, consulting services, and API programming. For the latest news and information visit <http://www.cadworks.ro>.

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Magma's Blast Create and Blast Fusion Accelerate Implementation of a 65-nm Customer Design

26 October 2005

[Magma® Design Automation Inc.](#) announced the successful tapeout of a 65-nanometer (nm), high-density, low-power integrated circuit (IC) using Blast Create™, Blast Fusion® and Blast Noise®. The IC, designed by next-generation SerDes vendor Aeluros, Inc., is a high-performance, analog-intensive, 5-Gbps chip that was completed in less than three months. Magma's RTL-to-GDSII flow enabled Aeluros to address 65-nm design challenges and achieve timing sign-off for both the digital logic and analog interface portions of the design within a single environment—thereby reducing the design cycle.

"We selected Magma for our first 65-nm design after achieving first-pass silicon success on a number of 0.13-micron designs," said Don Stark, vice president of engineering at Aeluros. "We needed to establish a reliable flow that could handle custom analog blocks along with standard-cell-based digital ASIC design. Magma's easy-to-use Tcl interface and automated flow allowed us quickly to repeat the entire design process every time we made a change to the RTL or constraints. This was key to helping us achieve the performance we needed without having to add engineering resources."

"Magma is committed to delivering software and methodologies that minimize the risk of migrating to 65 nm and below," said Premal Buch, general manager of the Design Implementation Business Unit at Magma. "We're pleased that Blast Create and Blast Fusion have once again been proven to address the complexities that arise in sub-nanometer design."

A combination of 65-nm process technology and ASIC and custom designed analog circuits, the design presented several potentially time-consuming challenges. The Magma software was able to improve productivity and accelerate the design cycle. The Magma Tcl interface enabled the designers to implement the entire RTL-to-GDSII flow with a single script and simplified the process of incorporating abstracts of the analog blocks into the design. With Early Silicon Performance (ESP) reports generated by Blast Create the designers could quickly and accurately predict how their RTL and constraint changes would affect timing. The Blast Noise correct-by-construction noise optimization flow enabled rapid closure of noise issues without iterations. Magma's integrated flow provided timing sign-off for both digital logic and analog circuits. This eliminated the time-consuming circuit simulation of analog-digital, mixed-signal interfaces and simplified back-end timing verification. With Blast Fusion, the designers implemented the mixed-signal IP using an ASIC flow, avoiding the complications of a custom flow. The physical design tool's powerful, automated routing capabilities quickly and efficiently routed the thousands of nets in the design.

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NanoSpeRx Embraces Citadon CW as a Secure Collaboration Platform for Effective Biopharma R&D Technology Transfer

25 October 2005

NanoSpheRx, Inc., the leader in protein/peptide stabilization solutions announced at the [Citadon](#) Customer Forum that it has signed a licensing agreement with Citadon, a provider of integrated Web-based collaboration, document management and business process management solutions. Under the terms of the agreement, NanoSpheRx will use the Citadon Collaboration Workspace (CW) platform to manage the NanoSpheRx virtual enterprise with a collaboration solution designed to mitigate the technology transfer risk and reduce time to market for pharmaceutical companies that leverage biotech companies as outsourced R&D partners.

NanoSpheRx, an emerging biopharma company based in the Bay Area, plans to integrate the Citadon CW solution into its management practices. Specifically, NanoSpheRx expects the Citadon CW's security features to pass the scrutiny of cautious biopharma companies forced to strike a balance between their need for collaboration with outside biotech partners to facilitate the technology transfer and the commercialization process on the one hand and their need to maintain a competitive confidential advantage in the marketplace on the other hand.

Biotech companies are increasingly serving as outsourced R&D partners for large pharmaceutical companies, which has increased the need for these companies to share confidential data. Biopharma customer collaborations via the Citadon solution will mitigate the technology transfer risk and reduce the time-to-market by licensing with NanoSpheRx. "NanoSpheRx's business model calls for it to provide ongoing technical support services to its licensees. The Citadon CW solution will provide NanoSpheRx with the ability to manage and direct its technical support program. This in turn will lead to the successful integration of NanoSpheRx's protein stability solution into licensees' commercial manufacturing practices", said Bill Southard, CEO of NanoSpheRx, Inc.

"Citadon was the clear choice", according to Dr. Rod Heisterberg, the Managing Partner of Rod Heisterberg Associates, who serves as project manager for NanoSpheRx. "When we were engaged by the Senior Management Team, we analyzed the NanoSpheRx virtual enterprise management requirements. We evaluated several alternative products in terms of features, advantages, and benefits. The Citadon CW platform provided the most scalable and extensible collaboration environment to enable the success of the far flung virtual team including customers and suppliers."

"In the biopharma industry, hundreds of millions of dollars are at stake to deliver new products quickly," says Howard Koenig, President and CEO of Citadon. "The NanoSpheRx virtual enterprise solution, powered by Citadon CW, will enable pharmaceutical companies to collaborate securely with outside R&D partners and accelerate the commercialization of new technologies."

NanoSpheRx, headquartered in Larkspur, California, manufactures particle engineering equipment that stabilizes protein therapeutics and licenses the equipment and technology to biopharma companies. The proprietary process known as Imprex® SFL was discovered and patented by researchers at the University of Texas at Austin under a grant from Dow Chemical. NanoSpheRx later acquired the exclusive rights to all water soluble drugs such as proteins, peptides, RNA, DNA, monoclonal antibodies, and vaccines. NanoSpheRx's Imprex® SFL technology prevents protein aggregation during freezing and drying, preventing immunogenic response, a principal concern for the FDA. Over 14 papers have been published demonstrating the consistent ability of the Imprex SFL process to stabilize protein therapeutics during the freezing and drying process without the need for additional excipients and stabilizers. By reducing the need for these additives, formulation teams can focus their efforts on formulating needle-free protein

delivery systems and on achieving room temperature protein stability, thereby increasing patient access and compliance. For more information, please visit: <http://www.nanospherx.com>.

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Oxford Engineering Takes Lean Manufacturing Forward with EdgeCAM Multi-Task Mill/Turn Machining

November 2005

Oxford Engineering Limited is a 100-person, £8m turnover, “one-stop shop” contract manufacturing business long established in Abingdon, Oxfordshire. It also has a recently opened facility in Estonia — Oxford Engineering Eesti OÜ.

The company concentrates on smaller runs, not high volume, for an extremely diverse range of markets. The demanding world of aerospace is one; others include medical, entertainment, and power generation. Typical batch size is between five and 50, and enormous efficiency, discipline and flexibility are pre-requisites. For a new commission at Oxford Engineering, paperwork flies around in all directions. Materials — titaniums, stainless steels, aluminiums, plastics — have to be ordered in rapidly, special tools may need to be ordered or jigs or fixtures manufactured, sub-contracting of outside processes such as anodizing or vacuum braising has to be administered. “Total manufacture” is important for many of the company’s customers who are happy to be relieved of the control burden by Oxford Engineering and its effective systems.

An important company characteristic is openness. As part of this, Oxford Engineering publishes its strategies on its website. One of them is “To operate towards the leading-edge of technology and to invest sufficiently in our people and equipment, to ensure a high level of competence.” An investment made during the 1980s was in the company’s first CAM (Computer Aided Manufacturing) products; two decades later Oxford Engineering is still an enthusiastic user of EdgeCAM software by Pathtrace Engineering Systems Limited.

Another of the company’s strategies — there are 12 in all — is “Continual cost reduction and efficiency improvement will be aggressively pursued by all”. So how is EdgeCAM helping the company to achieve its aims?

Towards single hit machining

Jon Raimbach, engineering manager at Oxford Engineering, comments: “We all recognize the fact that we can’t stand still, otherwise we will stagnate.” Their dynamism is exemplified by the company’s early adoption of multi task machining — mill/turn operations carried out by a single machine tool.

This relatively recent purchase is a Yamasaki/Mazak Integrex MS200 twin spindle turning and milling machine. The benefits of these new generation combined mill/turn machines are well known: reduced fixturing costs, no downtime/setup time between milling and turning operations, increased part accuracy

because of the tighter tolerances that can be held between milling and turning operations, and floor space freed in the workshop.

The fact is, though, that unlike previous generations of machine tools, multi task machines cannot program themselves to achieve anything like maximum efficiency. Considerable software capability is needed to master the complexities of spindle synchronization; collision avoidance is another major consideration. Simultaneous machining optimization of all the various elements of the machine is absolutely crucial if the full benefits are to be achieved and the ROI period of the machine tool minimized. EdgeCAM offers unique capability in programming multi task machines like the Integrex.

Taking advantage

The need has always been to achieve greater accuracy and higher quality while reducing lead times and speeding up the production cycle time.

The initial CAM software purchase by the company no doubt had a similar “this is the trend, and we’re going for it” feeling about it that decisions about multi-task machine tools have at present for forward-looking firms.

Today, the EdgeCAM software used by Oxford Engineering includes EdgeCAM Solid Machinist, EdgeCAM Part Modeler, EdgeCAM Advanced Production and EdgeCAM Turning.

“User friendly and functionality fine!”

Jon Raimbach describes EdgeCAM as “well proven software that suits our needs admirably”. Functionality is obviously part of this, and is important for a company where “We pride ourselves on doing awkward parts that others might struggle with or shy away from.”

Another key aspect is ease of use. Here EdgeCAM scores highly. It has done so increasingly during the ongoing development and considerable change in the software that Jon Raimbach has watched, initially though not latterly as a user of EdgeCAM himself. “It was always easy to use, but now, using mouse and pictures, it’s a lot easier to do something that is actually quite complicated.”

In the earlier days the company trained its programmers from those who worked on its own shop floor. “They knew nothing about CAM. They went through the standard training course at Pathtrace, and got my knowledge too.” Of two men in this category, he says “They picked it up really well — I suppose an advertisement for how easy it is.” Years on, one of these programmers has recently been through sub-spindle and B-axis advanced turning training in order to program the new Mazak Integrex.

Jon Raimbach likes to compare views on these matters, and says he is encouraged by hearing similarly positive EdgeCAM messages from people with experience of other CAM software. An opportunity for comparisons arises, albeit infrequently, when there is a personnel change among Oxford Engineering’s three programmers. Invariably when someone new joins the company and the topic is discussed he encounters agreement with his own view of EdgeCAM as generally the best. He sums it up as “User friendly and functionality fine!”

Jon Raimbach also comments favorably on the way Pathtrace has supported his company over the years. There may also have been a certain synergy between Oxford Engineering and Pathtrace based on always working forwards — seeking to stay ahead of the game. He says: “They’ve got a good development team there, and they’re going on developing it.”

Massively reduced complexity and lead times

Chris Budd, Oxford Engineering’s sales and marketing director, is also highly complimentary about EdgeCAM vis-à-vis its competitors. “It’s simpler to use, and better.” An additional reason for his belief is summed up by the word associativity. “You can translate designs from CAD. Solidworks and Unigraphics come straight in” — as do those created using many other leading CAD packages.

Oxford Engineering offers its own design service, but EdgeCAM’s ability to take in and make direct use of customers’ CAD designs is an important aspect of the company’s offering. Not only is there an image aspect to this, there is also something much more fundamental.

Jon Raimbach explains: “EdgeCAM plays a massive part in reducing complexity and timescales”. Customers can send in either a CAD drawing or a model to Oxford Engineering. Then, “We can use EdgeCAM quickly as well as knowing we have the process in place for the reduced batch size. So we can get the parts through quickly, saving money, and reducing human error.”

Oxford Engineering has recently purchased EdgeCAM Part Modeler, and he says: “It’s very easy to create models, so that even if you are doing a simple part, it’s nice to create a model to look at.” He notes that more and more of their customers are also using solid modeling software for part and fixture creation.

Some of the company’s customers are not very interested in the software aspects of how parts are made, only in getting their own parts produced. Others, says Jon Raimbach, are impressed by the fact that Oxford Engineering can take their solid model and use it to create the cutter paths.

A demanding customer

If you pay for something, you should get your money’s worth, is another Oxford Engineering theme, and this applies to CAM software as well as anything else. Jon Raimbach says: “I am quite demanding in that I like post processors to give all the information possible, so that there is minimal editing of the programs after the event. The reason for that is that if there are any changes or edits to be made, then the source file has got all the information.”

He knows that some users of CAM software use it “just to do the awkward bits”, and then type in the rest themselves, or edit at the machine, but as he points out, this calls for full understanding and skill on the shop floor. “If you have less experienced people at the machines, you don’t want to be paying them to learn the software” — and if you’re Oxford Engineering, you don’t have the time luxury for that anyway. So he expects the programs to “have every i dotted and t crossed”.

Telling figures

Patricia Hewitt MP, Secretary of State for Trade and Industry, outlined a telling set of figures in 2003 when she visited Oxford Engineering after its involvement in a project with the DTI's Manufacturing Advisory Service. The aim had been to improve productivity, and Patricia Hewitt quoted the company as having achieved savings of 75% in process traveling distances, 35% in set up times, 29% in lead times and 11% in space utilized.

Oxford Engineering keeps solidly to its improvement strategies. Jon Raimbach comments that EdgeCAM has to work hard at Oxford Engineering — and that it does, to the extent that the company wouldn't like to be without it. "You don't have the verification if you are manually typing. It is far easier to make mistakes, and you can't easily see 3-dimensional objects as you can now."

His own figures are interesting too, taken in combination with all the qualitative benefits of EdgeCAM, and especially in the light of the differences that the right software can make to multi task machining. "Looking through some timesheets, on average it looks as though we take between two and six hours to program new parts using EdgeCAM," he finds. "If we didn't have that, I'd be guessing, but you could probably treble those times, if not more in some cases."

The multi task machine is a current pre-occupation, but it's part of the ongoing Oxford Engineering story. Jon Raimbach is just as excited about the useful role that he sees for EdgeCAM in helping the new Estonian facility become as effective as that in Oxfordshire — and, perhaps, in other new phases and developments as yet unknown.

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Peguform Chooses UGS Tecnomatix Technology to Support Planning of New Facilities and Production Lines

31 October 2005

UGS Corp. announced that Peguform, an automotive supplier, has selected its Tecnomatix™ eM-Designer and eM-Plant solutions to help the company plan new facilities and production lines and optimize plant operations.

"We expect to optimize our planning processes and existing production lines and facilities considerably, thanks to UGS Tecnomatix solutions," said Thorsten Wunsch, head of the process planning—automation—plant layout department, Peguform. "UGS was chosen, after an extensive evaluation process, based on its proven ability to streamline production planning and optimize supplier operations. UGS Tecnomatix solutions are the most advanced in the market and their know-how and implementation expertise is very strong."

Tecnomatix is the digital manufacturing brand of UGS. Tecnomatix enables organizations to design, simulate and execute production processes. Digital manufacturing is a critical component of product lifecycle management, helping businesses increase profitability by improving the way products are built. More than 5,000 companies worldwide—including BMW, Lockheed-Martin and Anheuser-Busch—are using Tecnomatix to reduce operating costs, accelerate product introductions and shorten time to volume while maintaining high levels of product and process quality. Tecnomatix leverages the UGS Open

Manufacturing Backbone™ software, which facilitates integration with other UGS® solutions, as well as third-party systems. For more information visit: <http://www.ugs.com/tecnomatix>.

Belonging to Cerberus the Peguform Group, headquartered in Botzingen, is a global full-service-supplier with six plants in Germany, seven in Spain and additional ones in Mexico, Brazil and Portugal. The company designs, manufactures and supplies single plastic components, systems and complete modules for automobiles world-wide. The products are good in shape: from the interior to the exterior body shell! More than 7,000 employees world-wide contribute every day to the success of leading automotive OEMs. In 2004, Peguform achieved total sales of more than 1.4 billion Euro. For more information please visit <http://www.peguform.de/>.

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Perfect Bore Uses EdgeCAM's Adaptive Feed Rate Capability to Maximize Potential

November 2005

To design lightweight pistons that can withstand and transmit the immense forces generated within competition internal combustion engines is one thing. To manufacture them in the short timescales demanded by customers is another. To do so, profitably, that really is something very special. That is why Perfect Bore is now using EdgeCAM from Pathtrace Engineering Systems to maximize the potential of its considerable investment in high-speed machine tools.

Perfect Bore Limited

Based in Andover, Hampshire, Perfect Bore Limited is one of seven independently managed companies in the Performance Motorsports Inc. division of the Dover Corporation, a multi-billion dollar, NYSE-traded, diversified manufacturer of products and components for industrial and commercial use. Perfect Bore has strong connections to the whole of the motorsport community and has specialist capabilities in the manufacture and coating of thin walled cylinder liners and high performance pistons. Alan Baynes is Manufacturing Manager in the pistons division at Perfect Bore. He says, "We manufacture in single units up to batches of several hundred, for a wide range of top level series throughout Europe, Japan and the USA."

Forged or solid? —that is the question

Perfect Bore manufacture both forged pistons and pistons machined from solid billets. What are the advantages of the different processes? Alan says, "There is a volume break point at which it becomes more economical to forge pistons than to machine them from solid. However, it can take three to four months to deliver forged pistons, taking into account the design and manufacture of the forge tool. You have to be absolutely certain of your design if you take that route." He continues, "However, solid machined pistons can be made much more quickly when the volumes are modest. We can draw up a piston in Pro/ENGINEER®, analyze it in Pro/MECHANICA®, have it approved by the customer and get it into manufacturing within two to three weeks of order. Then we can quickly and easily embody any changes required by the customer after the piston has been raced." He adds, "Once a customer has run

them in his car or race series and is satisfied with the design, he can switch over to forged pistons if the volume warrants it.”

EdgeCAM: the system that works so well

Perfect Bore has been using EdgeCAM for a number of years for the finish machining of the forged pistons that account for around 70% of piston output. However, the ability to produce low volumes at short notice is an important part of Perfect Bore’s strategy for growth. Alan Baynes takes up the story, “To do this, we knew we needed a much more sophisticated level of software so we enhanced our EdgeCAM software to the level of functionality we needed.” He continues, “We were aware that there were competitors but to be honest, the service that Pathtrace provided has always been very good and we opted to stay with them.” Alan adds, “I’ve had people in here trying to sell other systems but I am not changing from the system that is so easy to use and that works so well for us.”

Progressive productivity improvement

Paul Daley is Perfect Bore’s CNC programmer and has been with the company almost three years. He says, “EdgeCAM can machine directly from the Pro/ENGINEER model, although we actually modify the model to suit the sequence of machining processes. Because the program for a typical piston undercrown is very complex, especially in the gudgeon pin boss area, it can take up to two days to create a program. Consequently, because we make a large number of different pistons, programming time is one of the most critical items for us. We have to reduce the time it takes to write programs and we have to write programs that reduce machining time.” Paul continues, “However, that is where EdgeCAM is so powerful. Each successive upgrade is progressively improving our productivity. Even so, I’m fully occupied writing programs and all our CNC machines have had memory upgrades to handle the sheer complexity of our work.”

Saving the cost of downtime

It does not stop there. As Paul says, “Machining high performance pistons from solid is very challenging, and it can take over an hour to machine the more complex ones.” That is where EdgeCAM’s adaptive feed rate capability comes in. Paul says, “This does exactly what it says. It adapts the cutter feed rate to suit the circumstances within the parameters you set. It reads the surface geometry to determine the optimum feed rate, slowing down in tight areas, speeding up in more open areas. This means that we get a more even cut with reduced risk of cutter damage.” He continues, “This would normally involve a lot of extra programming time but with EdgeCAM you don’t have to bother. It’s just a click of the button to set it up, turn it on, and enter the parameters.” Paul adds, “That’s it basically. You use it as part of your machining strategy. You’d usually do your roughing without it, and then choose the zones where you want it to operate.” He continues, “The real benefit is that it saves on cutters. More importantly, it saves the cost of the resultant downtime. If the cutter breaks we’d normally have to scrap the piston and start again, losing machining time and putting delivery times under pressure.”

A third more productive

To machine the pistons, the company uses 20,000 rpm Matsuura V-Plus 800 high-speed machining centers each with Nikken 4 and 5 axis units and each with a capacity of 30 tools. Paul says, "Because we run at such high speeds, the operators can't read the programs. They have to rely on them to be correct. However, with EdgeCAM, things just don't go wrong, full stop." He adds, "Thanks to EdgeCAM, typical machining times have come down from 45 minutes to 30 minutes, a productivity improvement of 33%, with the machines running five days and four nights a week. In fact, we are currently running a Friday night shift because we are so busy."

With us all the way

Alan says, "Since 1999 we have made a significant investment in CNC lathes and machining centers, with EdgeCAM as an enabler." He adds, "We are now looking to bring all our manufacturing processes within the four walls of the machine shop and we are continuing to invest in processes and equipment in order to reduce turn-round times for our customers. We fully expect that EdgeCAM will be with us all the way."

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Right Hemisphere Holds Key to Unlock Millions in Savings for Auto Companies by Streamlining 3D Product Graphics Creation

31 October 2005

[Right Hemisphere®](#) announced that innovative automotive visualization companies are using its Deep Server™ enterprise software to streamline their computer graphics imagery (CGI) process for product visuals. Right Hemisphere's Deep Server PGM software is enabling companies such as Cenveo Armstrong-White (<http://www.armstrong-white.com>) to make impressive productivity gains in the creation of high-end photorealistic automotive images for use in sales and marketing for their automotive clients and their ad agencies.

Innovative companies like Cenveo Armstrong-White are taking the next logical step forward in the current industry trend of replacing real cars with computer-generated ones for product promotion. Graphic artists, who are responsible for the auto commercials, print ads, videos and other multimedia productions, are further streamlining their traditional creation procedures by working directly from the computer-aided design (CAD) data generated by engineering departments. Car manufacturers realize that leveraging pre-existing CAD data provides a significant advantage, including a tremendous cost-savings, increased accuracy, and far more creative flexibility over traditional methods such as photo shoots.

By working straight from CAD data, manufacturers can gain tremendous time and cost savings by building marketing tools concurrent with the design and development of the automobile itself—before the first prototype of the car is ever built. Manufacturers and their ad agencies no longer have to wait until there is a prototype "prop" to photograph or spend hundreds of thousands of dollars building and shuttling both prototype cars and large production crews to exotic locales to get the images needed for product brochures, TV commercials, specialized kiosk displays, Web sites, and other promotional mediums. There are oftentimes more flexibility for creativity with less equipment and people.

"Leveraging 3D CAD data just makes sense. This market is extremely competitive. The auto manufacturers recognize the advantages of computer graphics information and are driving efficiency improvements in this area. We are pleased to support them with our Deep Server technology," said Tom Meredith, vice president of Global Sales for Right Hemisphere. "Innovative CGI studios have made a name for themselves in the automotive industry by being quick to pair their own talents with our technology. It has empowered them to turn CAD data into stunning product graphics in the most advantageous, forward-thinking and economical way for their customers."

While working directly from CAD data provides real advantages—potentially to the tune of millions of dollars in savings for car companies—it was not commonly used in the past to generate promotional materials because mainstream technology was not available to support it. CAD data alone does not lend itself easily to the digital content creation (DCC) software programs used by graphic artists responsible for the production of automotive marketing imagery and multimedia materials. That's where Right Hemisphere's software fits in. It offers car manufacturers and their suppliers an invaluable tool chest that unlocks this CAD data so it can be easily used, searched, and managed on an enterprise scale.

Right Hemisphere's flagship product, Deep Server, addresses a new category of enterprise software called Product Graphics Management (PGM). PGM integrates CAD/PDM and publishing applications, automates 2D and 3D graphics publishing processes, and manages product graphics in all leading modeling and graphic formats. With Right Hemisphere's solutions, customers leverage existing CAD assets and integrate graphics into leading ERP, DCC or dynamic publishing applications to deliver 2D and 3D graphics throughout the enterprise. These solutions are implemented quickly to automate graphics transformation and authoring, and optimize the graphics publishing process for product communications and support offerings. Supporting over 120 2D and 3D formats, Right Hemisphere's technologies provide a unified repository to easily retrieve data, a searching interface as easy to use as Google®, and a secure and managed environment for proprietary data and access control.

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Silicon Graphics Selects Synapsis' Environmental Compliance Solution—EMARS

31 October 2005

Synapsis Technology, Inc. announced that [Silicon Graphics, Inc.](#), a leader in high-performance computing, visualization and storage, has selected its patent-pending Environmental Material Aggregation and Reporting System (EMARS™) to support its environmental compliance management and reporting requirements.

"Compliance with RoHS (Restriction of Hazardous Substances) and WEEE (Waste from Electrical and Electronic Equipment) is a major undertaking for any high tech electronics manufacturer," said Dick Harkness, vice president of manufacturing operations, SGI. "Synapsis' EMARS is a comprehensive solution that will enable us to thoroughly manage and analyze the material content of our products to ensure that we are fully compliant with the critical industry regulations."

EMARS is a tool that will provide SGI with the ability to implement a solution to meet the existing environmental regulations and sets the framework for staying ahead of the growing and constantly

changing environmental requirements. As an off-the-shelf solution, EMARS will offer SGI a complete set of functionality to analyze and track compliance at the substance, material, part and product level and efficiently manage its data collection and reporting processes.

"As a leader in the high tech industry, SGI is taking the reigns and leading by example by implementing EMARS and effectively managing its processes related to environmental compliance while also preparing the company for future regulations," said Tim Irvine, vice president of Sales and Marketing for Synapsis. "We look forward to working with SGI to satisfy its RoHS and WEEE compliance needs and growing with the organization as new needs arise."

Synapsis is an international software and consulting company specializing in providing environmental compliance, product lifecycle management (PLM) and product data management (PDM) solutions. EMARS, Synapsis' Environmental Material Aggregation and Reporting System, and its Compliance Checker are patent-pending solutions that enable companies to comply with environmental regulations, such as ELV, RoHS, WEEE, among others. Some Synapsis clients include: Air Products, American Power Conversion (APC), Cisco Systems, Dialogic, Harley Davidson, Motorola, Northrop Grumman and Victaulic Company. Founded in 1999, Synapsis is headquartered in Spring House, Pa. and has a software development center in Noida, India. For more information on Synapsis, visit <http://www.synapsistech.com/>.

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Spescom Selected By Aker Kvaerner for Global Deployment

2 November 2005

Spescom Software Inc announced that Aker Kvaerner has selected eB as its corporate standard for document management.

Aker Kvaerner, a leading global provider of engineering and construction services, technology products and integrated solutions (<http://www.akerkvaerner.com>), has completed an evaluation of a series of Information Technology products to form the corporate standards on which it will deploy solutions across its business units and projects into the future. In the Electronic Document Management area, eB from Spescom Software has been selected as the corporate standard. In due course eB will be used to replace the systems that are currently in operation, and in the short term will be applied to a number of specific project requirements.

Aker Kvaerner is a \$5.2 billion company (2004), employing 21,000 people in more than 30 countries. Spescom has worked closely with Aker Kvaerner on a number of projects in the UK and Europe, and has developed an understanding of the key information management requirements of an enterprise of this nature.

"The decision made by Aker Kvaerner to adopt the eB platform for document management is of strategic importance to Spescom," stated Keith Stentiford, CEO, Spescom Software. "We look forward to a long and successful relationship with one of the world leaders in engineering and construction."

“This contract win, against some of the largest players in the enterprise content management market clearly indicates that eB is a platform for the future. Its ability to manage both unstructured and structured information on a single platform makes it unique in the enterprise information management market. The deployment of eB version 14 in support of the global operations of Aker Kvaerner will be a significant milestone in the development of Spescom Software.”

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UGS' Teamcenter Product Lifecycle Management Software Helps United States Joint Forces Command Win Department of Defense Award

31 October 2005

UGS Corp. announced that its Teamcenter software played a key role in helping the United States Joint Forces Command (USJFCOM) win the E-Gov Department of Defense (DoD) Excellence in Enterprise Architecture award for “Leadership in Government Transformation.” The award was given for a specific Joint Battle Management Command and Control (JBMC2) Capabilities Mapping Environment (JCME) project, which provides a web-based, collaborative enterprise system engineering environment.

USJFCOM is one of nine unified commands in the DoD and its programs help the Army, Navy, Air Force and Marines integrate their war-fighting capabilities. USJFCOM uses Teamcenter as the underlying technology for its systems engineering architecture.

With Teamcenter for Systems Engineering, the JCME integrates all aspects of a program’s definition – mechanical, electrical, software, military specifications, regulatory requirements, etc. This integrated view of the complete system enables the “what-if” analysis and testing necessary to make better program decisions – along with the re-use of previous program information. By supporting better decision-making and streamlining efficiency, JCME is leading the way in what the award calls “Government Transformation.”

USJFCOM is responsible for developing integrated architectures that must manage complex enterprise information as a framework for decision making. The award validates the results achieved from these efforts. JCME is not just a systems technology solution, but is a tool to manage operations through standard best practices in integrated architectures. USJFCOM customers leverage the program to re-utilize architectural information to develop, analyze, test, assess, exercise and plan for current and future military capabilities. The powerful mapping and traceability, coupled with the ability to build re-usable, data-enriched objects was a key enabler for this project.

UGS’ Federal Group assists Federal/DoD organizations in their innovation and transformation efforts, including USJFCOM.

“We congratulate USJFCOM on this prestigious award,” said Mo Baz, director of Federal Sales, UGS. “We are proud to be the technology provider assisting USJFCOM in their JCME transformation effort. USJFCOM has been using Teamcenter technology for the last three years. While we support many custom implementations of Teamcenter, it’s important to point out that USJFCOM was able to complete this project using Teamcenter’s system engineering functionality ‘out of the box.’ We look forward to

supporting USJFCOM and other Federal/DoD organizations in their innovation and business transformation projects.”

For more information on UGS’ federal industry solutions, visit http://www.ugs.com/products/industry_solutions.

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Ultra Electronics Precision Air Systems Selects IFS to Streamline Business Processes

31 October 2005

Ultra Electronics Precision Air Systems (PAS), a manufacturer of compact on-board gas compressors to the global defense industry worldwide, has signed a contract to deploy IFS Applications™. The integrated solution will automate back-office functions and provide a seamless solution to benefit the company, customers, and partners.

Ultra PAS is based in Cheltenham, Gloucester, England, and is part of Ultra Electronics Plc, an aerospace and defense electronics company providing specialist products to customers across the globe. The company has offices in the UK and United States. The business runs three divisions: Tactical & Sonar Systems, Aircraft & Vehicle Systems, and Information & Power Systems.

"The growth of our business was placing increasing pressure on the existing databases and Excel® documents we had in place," said Paul Benson, Managing Director of Ultra Electronics PAS. "We wanted a single enterprise software solution that was fully integrated, yet had the flexibility and scalability to grow with our business. IFS' solution ensures we have the functionality we require with a low total cost of ownership."

A decisive factor in the selection process was that IFS has the most modern, flexible, and integrated solution in the market. The company expects to establish an enterprise-wide view of its business quickly and cost effectively through IFS. This means Ultra Electronics PAS will be better positioned against its competitors and will be able to provide a higher standard of customer service.

IFS Applications will run on an Oracle database, and the project is expected to go live in May 2006.

IFS customers within the aerospace and defense industry include the British, Norwegian, and South African defense organizations as well as the Eurofighter consortium. Commercial MRO shops and operators include Finnair, Bristow Helicopters, Aero-Dienst GmbH, Hawker Pacific, and Jet Turbine Services. In addition, IFS provides solutions to original equipment manufacturers (OEMs) such as General Dynamics, Lockheed Martin, BAE SYSTEMS, Saab Aerosystems, and GE Aircraft Engines.

Ultra Electronics is a group of specialist businesses designing, manufacturing, and supporting electronic and electromechanical systems, subsystems, and products for defense, security, and aerospace applications worldwide.

Ultra, which employs 3,000 people in the UK and North America, focuses on high-integrity sensing, control, communication, and display systems with an emphasis on integrated information technology solutions. The Group concentrates on obtaining a technological edge in niche markets, with many of its products and technologies being market leaders in their fields.

Ultra's products and services are used on aircraft, ships, submarines, armored vehicles, surveillance systems, airports, and transport systems around the world. Ultra also plays an important role in supporting prime contractors by undertaking specialist system and subsystem integration using the combined expertise of the Group businesses.

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Volvo Penta Reduces Engine Warranty Costs 30% with ITI's Reliability Growth Program

1 November 2005

Global product development consultant International TechneGroup Incorporated (ITI) announces a successful Reliability Growth program with engine manufacturer Volvo Penta (Gothenburg, Sweden). Volvo's plan was to adapt and develop a new 12 liter diesel engine that would meet aggressive sales and challenging reliability targets for marine applications for a product with significant sales volumes. Specifically, the company's goals were a 30% reduction in warranty claims of current product levels and an increase in market share. Through ITI's Reliability Growth program both targets were effectively met. At the program's conclusion, failure rate for the new engine in fact exceeded the goal. Bolstered by enhanced reliability, sales of the engine reached twice what was forecasted.

Said Urban Larsson, Product Development Manager for Volvo Penta: "The impact of our reliability growth initiative has been tremendous. Thanks in large part to ITI's Reliability Growth program we were able to successfully meet our failure rate reduction goal. As a result of this success, Reliability Growth is today a standard part of new product development at Volvo Penta."

ITI worked with Volvo to understand the reliability behavior of its line of current engines. Rather than look at reliability for the 12-liter engine family as a whole, information was sorted by industry and application. This enabled historical performance and future requirements for the entire family of engines to be fully quantified and understood.

In this way, realistic yet aggressive targets could be set for each engine with specific reliability plans developed for each.

Reliability Growth programs applied on the project:

- Current product reliability data was analyzed
- Targets for the new products were established

- New content resulting from changes in product designs was analyzed & quantified
- Reliability Growth test & improvement plans were developed
- Endurance testing, internal vehicle testing, & customer field-testing was completed

ITI and Volvo jointly executed the program. Reliability Growth was first planned—a model was used to determine the amount of new content risk and associated amount of testing required to identify and resolve problems. A process and software to track and manage problems to resolution was developed and implemented for capture, continual monitoring, and management of test data.

Initially, [ITI](#) assisted with the first deployment of Reliability Growth test monitoring and management. As supporting teams and individuals were trained, Penta adopted the Reliability knowledge and methodology as a best practice in new product development. Penta has since become self-sufficient and has continued to successfully apply the Reliability Growth methods and technologies to all development programs.

ITI's product quality and reliability program ensure that desired levels of reliability are achieved and demonstrated during product development—before new products go into production. This is accomplished through a carefully planned program implemented over the course of the project.

The goals are to optimize the overall reliability engineering activity, achieve the best possible starting reliability level in the first product prototypes, and systematically improve reliability by identifying and resolving unanticipated, undetected, or underestimated problems.

ITI is the world's largest independent provider of product data integration products and services. The Company's Concurrent Product and Manufacturing Process Development (CPPD) methodology shortens product development time cycles and reduces development costs.

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Product News

ALGOR Offers Multi-Platform Support for Windows, Linux and Unix

1 November 2005

ALGOR, Inc. announced support for the following hardware platforms: 64-bit Microsoft Windows®, 32- and 64-bit Linux® and 64-bit UNIX® workstations. This expansion of supported platforms allows users to analyze larger, more complex models faster than ever especially in multi-computing environments.

With ALGOR's multi-platform support, users can build a finite element model on a standard personal computer (PC); send the model to a high-performance 64-bit computer for computationally intensive analysis; and then examine the analysis results on the standard PC. Using a high-performance 64-bit

computer for analysis along with a standard PC for pre- and post-processing makes computer-aided engineering more efficient and cost-effective.

ALGOR's multi-platform expansion began with V18, the most recent software release, which provides linear static stress analysis capabilities that are optimized for 64-bit operating systems. By the end of 2005, ALGOR will support 64-bit Windows and 32- and 64-bit Linux for all analysis types, allowing users to apply the power and speed of these hardware platforms to ALGOR's wide range of simulation capabilities including static stress and Mechanical Event Simulation (MES) with linear and nonlinear material models, linear dynamics, fatigue, steady-state and transient heat transfer, steady and unsteady fluid flow, electrostatics, piping and full multiphysics. Future releases will support 64-bit UNIX workstations from Hewlett-Packard Company, Sun Microsystems, Inc. and IBM Corporation.

"I have noticed a significant speed increase for linear static stress analysis on my Windows XP 64-bit workstation," said Tommy Breaux, Vice President of Engineered Casting Repair Services, Inc./Metalock Corporation in Denham Springs, Louisiana. "The expansion of ALGOR's solver support for all analysis types on 64-bit hardware platforms will be particularly valuable for providing faster run-times during complex analyses such as nonlinear MES."

"This multi-platform support provides increased flexibility and performance to our customers by allowing them to continue working within our easy-to-use Windows interface while leveraging their hardware platform of choice for analysis," said ALGOR Product Manager, Bob Williams. "Future development will support distributed processing, where the analysis can be spread out over a number of computers to achieve a solution even more rapidly. This all leads to true virtual prototyping, where complex multiphysics simulations involving motion, impact and large deformation can be solved and the results viewed as close to real time as possible."

For more detailed information, contact an ALGOR account manager or visit the company's web site – <http://www.ALGOR.com>.



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Alibre Drops Internet Advertising from Free CAD Software

1 November 2005

[Alibre®, Inc.](#), has announced that it will remove advertising and the internet connection requirement from Alibre Design Xpress™ with the latest release of the product on November 7.

Originally released anonymously earlier this year as the mysterious X-CAD, Alibre Design Xpress gives free access to true parametric 3D modeling technology. In addition to the new release allowing customers to run the application without a live Internet connection and fully removing commercial content, it also simplifies the download and installation process by streamlining registration and license key generation. Now users need not register initially to obtain a license key; if they choose to register, they will receive additional product features.

According to Greg Milliken, CEO of Alibre, the widespread popularity of the free CAD application has eliminated the original justification for banner advertising: “Initially we looked at advertisements as a way to subsidize Xpress, but our ability to convert Xpress users to paying customers has exceeded our expectations. The more people who try the free product, the more who want to buy additional capabilities. Expanding usage has the greatest upside, even at the expense of some near-term ad revenue. By removing the Internet connection requirement and ads, and by simplifying the download and installation process, Xpress will have greater appeal and reach even more users.”

A recent design contest showcased 3D projects built with Alibre Design Xpress. The competition showed that the capabilities of free CAD including the ability to design 3D parts and assemblies and create associative 2D drawings rival those of much more expensive CAD applications and proved that Xpress is a serious 3D CAD tool.

“Users of Xpress come from a wide variety of industries and market segments,” added Milliken. “The product is being used by companies of all sizes, as well as by consultants, individuals working on the side, hobbyists, students, you name it. Alibre Design Xpress has tapped into a nerve in the market, and the numbers show that there are many, many potential users who are not served by other products and channels.”

For a reasonable fee, users of Xpress can instantly upgrade the product to obtain additional advanced modeling and 2D drawing tools, the ability to design larger assemblies, data management, sheet metal design and collaboration tools, along with direct support and upgrades to future releases.

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Centric Software Announces Patents that Reduce Design Iterations and Time-to-Market

1 November 2005

Centric Software, Inc. announced two patents that expedite the new product development process allowing companies to reduce product development cycles and time-to-market.

Centric has been granted a patent titled “Simulation Program Having Generic Attribute Access Schema” that allows Centric Decision Center users to add further meaning to data aggregated from incompatible source systems, thus creating a more complete picture of projects or products for greater contextual analysis.

The Centric Decision Center implements Centric’s OpenPLM connectivity that continually extracts and aggregates key data from multiple source systems, and re-presents the data in new, meaningful combinations. However, extracted, aggregated data from mixed-source PLM, ERP, CRM and other systems may lack key unifying elements, such as color or cost, that facilitate collaboration on projects or products across dispersed teams. With this patent, Centric Decision Center users can map new elements to existing data in real-time. The resulting combination allows a more meaningful and accurate representation of shared project and product information.

“The unique value of this patent lies not just in the fact that we can add elements to aggregated data, but in our ability to use the added elements to facilitate communication so companies can bring winning products to market more quickly,” said Chris Groves, chief executive officer of Centric Software. “This patent, and the second described below, further our goal, which is to continually deliver technology that accelerates innovation for product and program execution.”

The second patent, “Multi-Threaded Frame Safe Synchronization of a Simulation,” enables design engineers to run more accurate, realistic real-time simulations on products before developing prototypes. The technology integrates multiple sources of engineering data to create smooth, visually accurate 3D images.

“Even the smallest design flaw can delay a new product introduction by months, which may result in missing a critical market window and lost revenue,” said Ron Watson, vice president of product development for Centric Software. “By overcoming potential obstacles in new product introductions, both of these patents assist with the difficult challenge of aggregating product information to capitalize on market opportunities.”

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Cimmetry Releases AutoVue 19 For EMC Documentum 5.3

25 October 2005

Cimmetry Systems Corporation, an Agile Software Corporation company, announced the immediate availability of its collaborative visualization solution, AutoVue version 19 for EMC Documentum 5.3.

AutoVue for Documentum integrates with EMC Documentum 5.3 Desktop and Webtop clients, providing users with a single point of access to hundreds of document types stored in the ECM repository for viewing, printing, markup and real-time collaboration. AutoVue’s vast format support reduces the need to purchase and maintain costly licenses for multiple authoring applications and its ease of use minimizes costs and downtime associated with user software training.

AutoVue’s “Designed for Documentum” accreditation represents a sign of quality and value in enterprise content management (ECM) integrations and confirms that AutoVue’s integration with EMC Documentum has met stringent design development and qualification standards.

For more information, please contact your local Documentum representative or Cimmetry at 1-800-361-1904 (North America) or +1 514 735 3219 or via email at info@cimmetry.com.

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Electronics Workbench Announces Multisim 9 for Circuit Design and Simulation

1 November 2005

Electronics Workbench Corporation, a National Instruments company, announced Multisim 9, Ultiboard 9 and Ultiroute 9. Together these products form the Electronics Workbench Series 9 DesignSuite, a tightly integrated, end-to-end solution that engineers can use to efficiently take electronics projects from initial concept through capture and simulation to final layout and production.

Multisim integrates with the recently released NI LabVIEW 8 graphical development environment as well as NI SignalExpress interactive measurement software to help design engineers increase productivity and reduce time to market by bridging the disconnect between popular design and test tools. Using Multisim 9, engineers can access enhanced simulation capabilities by using real-world data acquired by LabVIEW as the source that drives virtual circuits during testing. By integrating their simulation data and real-world measurements, engineers can reduce errors, shorten design time and create more robust designs. Engineers also now can use LabVIEW to graphically create fully customized virtual instruments to use in the Multisim environment in addition to the software's 20 supplied instruments.

Engineers now can quickly import their Multisim 9 simulation results into LabVIEW or SignalExpress in their native file formats. With this capability, they can more efficiently share and compare real-world and simulated data. They can use these results as benchmarks during project testing and debug phases, improving efficiency and interdepartmental communications by easily comparing measured data with expected or desired results. With native file formats, engineers can eliminate the need to convert files and can significantly reduce errors and inefficiencies associated with data sharing.

"Multisim 9, the first Electronics Workbench release under National Instruments, marks a fundamental change in design technology. Engineers now have a tightly integrated, end-to-end solution for electronics design, from capture to simulation to test and implementation," said Ray Almgren, NI vice president of product marketing and academic relations. "By combining world-class simulation with real-world measurements early in the design process, design engineers now can make better decisions earlier, resulting in high quality products and a faster time to market."

The Series 9 DesignSuite delivers other enhancements as well, including:

- New features that enable engineers to use mathematical expressions within analyses while simulating
- New circuit wizards that automatically generate circuitry to match user-defined parameters for Op Amps and MOSFET Amplifiers
- New functionality in Ultiroute 9 autorouter for prioritizing routing order by net (or routing a single net)

Engineers can access a freeware edition of the complete Series 9 DesignSuite or request a CD by registering online at <http://www.electronicworkbench.com>. Please contact Electronics Workbench for pricing or additional information at 800-263-5552.

Electronics Workbench develops and markets desktop electronic design automation (EDA) software used by design engineers and educators around the world. The company's circuit board design system incorporates schematic capture; patented co-simulation of analog and digital circuits using SPICE and VHDL; RF design tools; constraint-driven PCB layout and autorouting; and CAM verification tools.

National Instruments (<http://www.ni.com>) is a technology pioneer and leader in virtual instrumentation. Leveraging PCs and commercial technologies, virtual instrumentation increases productivity and lowers costs for test, control and design applications through easy-to-integrate software, such as NI LabVIEW, and modular measurement and control hardware for PXI, PCI, USB and Ethernet.

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FileNet Announces Integration with Microsoft SharePoint Products and Technologies

2 November 2005

FileNet Corporation and Vorsite Corporation, a provider of products and services for connecting Microsoft SharePoint to Enterprise Content Management systems, announced an agreement to offer Vorsite's Enterprise Integration Toolkit (EIT) as a preconfigured module for FileNet Content Manager.

The Vorsite EIT enables companies to leverage FileNet Content Manager content from within their Microsoft Office SharePoint Portal Server 2003 environments, creating an easy to use and enterprise capable content, process and compliance infrastructure. With this approach, business users can stay in the familiar Microsoft Office environment while using Windows SharePoint Services and SharePoint Portal 2003 for the majority of their daily content-based activities while integrating with the enterprise content management capabilities of FileNet's P8 platform.

“Offering Vorsite's Integration Toolkit as a preconfigured module makes it easy for our customers to enable SharePoint products and technologies as the user interface of choice assessing the FileNet P8 platform,” said Martyn Christian, chief marketing officer for FileNet. “FileNet P8 embraces and extends SharePoint products and technologies and the Office system to offer the Enterprise-class ECM capabilities that our customers want.”

The FileNet P8 integration with Microsoft SharePoint Portal Server and Windows SharePoint Services provides the ability to capture content into FileNet Content Manager based on administrator configured metadata and then synchronizes indexes with SharePoint Portal Server 2003 so content behaves as if it is in the local SharePoint repository. The toolkit also gives users a single point of access to this content through the SharePoint interfaces. This allows for more robust compliance policy enforcement while making content available across the entire enterprise regardless of what desktop environment is used.

“Microsoft is pleased that FileNet and Vorsite are working together to make SharePoint Products and Technologies an even better solution for enterprise customers,” said Sanjay Manchanda, director of SharePoint Products and Technologies at Microsoft Corp. “Our customers will appreciate the added degree of security, robustness, and administrative capabilities the solution built on top of SharePoint Products and Technologies provides.”

Vorsite helps customers ensure that users can access information supporting key business processes while preserving security and data integrity. Vorsite offers solutions to a wide array of Fortune 1000 companies in energy, pharmaceuticals, and any industry that relies on ECM capabilities. The company can be reached at info@vorsite.com or at 1 800 218 7260.

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Flomerics and SimLab Link EMC Simulation Software

November 2005

Flomerics and SimLab have together created a software interface linking board-level and system-level electromagnetic compatibility (EMC) analysis for the first time.

SimLab customers use RadiaSim software to calculate electromagnetic fields close to the surface of a printed circuit board. The new software interface converts this information into a “compact source file” which is then used in Flo/EMC software to predict 3-D electromagnetic fields in and around the complete electronic system. Using both software tools in concert enables engineers to minimize electromagnetic emissions from the board and at the same time investigate enclosure-level resonances and shielding effectiveness, thus optimizing the system for electromagnetic compatibility (EMC).

The new interface is available free of charge with Flo/EMC Version 6.1 from Flomerics. Customers interested in a demonstration or evaluation of this new interface are requested to contact their nearest SimLab or Flomerics office.

“There has been an important “missing link” between board-level and system-level EMC analysis.” said Mike Reynell, Director of Marketing for Flomerics. “This new interface enables the electromagnetic emission profile, or “signature”, of a complex printed circuit board to be captured and used in system- and environment-level analysis, which is where EMC tests are passed or failed. Designing-out EMC problems early on has become a major competitive advantage for companies producing high-speed electronic systems, and both SimLab and Flomerics’ customers will benefit from this new interface.”

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Mentor Graphics Expands DFM Strategy with YieldAssist Diagnostics Tool for Yield Improvement

31 October 2005

Mentor Graphics Corporation announced the immediate availability of the YieldAssist™ diagnostic tool. With the ability to identify and isolate yield-limiting defects, YieldAssist enhances semiconductor yield and expands Mentor's Design-for-Test (DFT) product portfolio and platform beyond classical test generation and defect detection. The product takes failure information directly from manufacturing test, and through advanced diagnostics, identifies failure causes to facilitate yield learning and eliminate weeks of manual analysis effort.

Accurate diagnosis of scan test failures is a critical element of failure analysis, and is becoming vital for yield learning and yield improvement purposes as nanometer technologies continue to shrink.

Improving yield in the nanometer era requires solutions that span all aspects of the design to manufacturing flow. Failing devices from the wafer sort phase of manufacturing test can provide a goldmine of information for yield and failure analysis engineers. YieldAssist allows semiconductor manufacturers to harvest this information and identify both systematic and random defects to drive failure analysis and yield improvement. It also provides a critical link back into the design process for improving design for manufacturability (DFM) as well as for adaptively improving the quality of the manufacturing test itself and reducing defect per million (DPM) rates.

The overall yield learning/monitoring strategy that YieldAssist facilitates addresses the three key areas needed for a complete solution; high quality test, effective defect isolation and rapid high-volume diagnosis. Effective detection of all the subtle defects that occur in nanometer designs is the first step in yield improvement. The high quality manufacturing tests created with the TestKompres® or FastScan™ automatic test program generation (ATPG) tools provide the foundation for improving defect detection and diagnosis. Using the failure data from manufacturing test, YieldAssist is able to isolate the cause of the failure and map it to defect suspects. A link to Mentor's Calibre® results viewing environment (RVE) allows users to view suspected defects in the physical design layout view to further isolate problems down to a physical feature. Rapid high-volume diagnosis can be achieved in a production environment by directly reading failure logs from compressed test patterns. This enables effective failure diagnosis directly from production test data, avoiding the additional cost of rerunning special tests for diagnosis purposes only.

"Failure analysis is a growing field where better tools can pay big dividends," said Robert Hum, vice president and general manager for the Design Verification and Test division at Mentor Graphics. "There continues to be a need for diagnostic tools that can more finely classify suspect defects and rapidly link those suspected defects to the physical design for analysis. This groundbreaking advance in DFT technology will dramatically hasten silicon failure analysis and ultimately play a critical part in yield learning and yield monitoring."

Pricing and Availability:

YieldAssist is available immediately. Pricing starts at \$126K per year for a term based license. More information is available at <http://www.mentor.com> or by calling 800-547-3000.



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Sequence Dramatically Improves Low-Power Lineup With New Releases

2 November 2005

Sequence Design announced significant enhancements of PowerTheater™, a complete toolkit for SoC power analysis and optimization; CoolPower™, providing physical power optimization for leakage

power, and dynamic power; and CoolTime™, for static and dynamic power grid analysis and optimization.

PowerTheater now features gate-level time-based power analysis, providing a view of power dissipation as a function of time within a waveform display. The analysis also provides average power estimation numbers 2-3X faster than the existing flow. PowerTheater is now supported on the Intel Xeon platform as well running the SUSE 9 and RHEL 3 operating systems. It also provides strong links to CoolTime and other dynamic voltage drop tools for generating state information based on highest activity or highest power. In recent months, PowerTheater has been deployed by leading customers in the wireless and mobile computing SoC applications.

CoolTime dynamic analysis run time has been improved by 2-4X without sacrificing accuracy. A 14-million gate design now takes about three hours (as compared to 10 hours earlier) to complete a dynamic analysis run on an Opteron machine. In addition, this design takes less than 16G of memory (half of what the earlier version required). CoolTime has an updated extraction engine, PRX, which improves the GDS extraction runtime by 3-5X. CoolTime now features voltage drop optimization (VDO) for individual blocks or full chip. CoolTime's VDO consists of decoupling capacitor insertion into empty and/or consolidated spaces, and hotspot spreading, in which peak power is redistributed by moving victim or aggressor instances a short distance. CoolTime also features "SpeedView," a new layout viewer with electro-migration and voltage drop "wizards" that display results as overlays on top of the original design so data can be analyzed as much as 10X faster. This capability helps in debugging power grid failures.

CoolPower now has the ability to transform a non-power gated design into a power gated one with a new technology, "Power Gating Transformation (PGT)," to automatically and effectively reduce leakage current. PGT replaces all non-power gated cells in the specified modules or lists with the equivalent power gated versions, inserts switch cells to connect the power gated cells to real ground, connects the switch cells' control inputs to the specified Sleep-Control signals, and inserts interface cells on the nets driven by power gated instances but received by non-power gated instances. Since the power gating switches must be carefully placed and sized to minimize voltage drop and leakage currents while simultaneously minimizing area overhead, CoolPower features several new commands to optimize switch connectivity, placement, and sizing.

"We recognize along with our customers that power is the most serious issue facing design teams today," said Jerry Frenkil Sequence CTO and vice president of advanced development. "Sequence is committed to continuously improving the performance, accuracy, and ease-of-use of these tools as exemplified by this new release."

The new 2005.3 releases of PowerTheater, CoolPower, and CoolTime are currently available at no additional cost to the existing customers. For more information, interested parties may contact sales@sequencedesign.com.

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Visioneer and Daybreak ICS Announce New Enterprise Solution for Documentum— eCapture for eRoom

24 October 2005

Visioneer, Inc., offering intelligent imaging solutions, and Daybreak ICS, Inc., a content management services company focused on the Documentum platform, jointly announced eCapture™ for eRoom®. eCapture for eRoom is a software scanning solution, utilizing the Visioneer OneTouch™ interface, that

enables users to scan paper documents and send them to a selected Documentum eRoom® with the single push of a button. eCapture for eRoom will be available exclusively from the Visioneer channel on Visioneer- and Xerox-branded scanners as a single user license or easy-to-deploy 10, 25 and 50 pack licenses in mid-November. The released product will be publicly demonstrated for the first time at Momentum Las Vegas 2005, October 24-27.

"eRoom is a hugely successful online collaboration tool for electronic documents but users have not had a path to easily add paper documents to this collaboration environment," said Don McMahan, Executive Vice President of Sales and Marketing at Visioneer. "In cooperation with Daybreak ICS, Visioneer has now 'opened the doors' to every eRoom for scanned documents. The ease of use of OneTouch and e4e makes adding a paper document to an eRoom as simple as point and click. By scanning documents to Text Searchable PDF, these documents are full eRoom citizens."

eCapture for eRoom (e4e™) is a software application, with both client and server components. By connecting the client machine to the eRoom server, e4e enables users to scan paper directly into the eRoom of their choice in a simple single step by leveraging Visioneer OneTouch technology. After an automated installation process, users configure the OneTouch setting for the desired document type (i.e., paper size, resolution, color depth), file format (e.g., searchable PDF, PDF, JPEG, BMP), and target eRoom. Then, simply press the OneTouch button on their scanner, and the document is scanned, formatted, sent to eRoom, and stored. Users can easily preset the scanner buttons to target their eRoom and document format, and then scan documents automatically. e4e includes the ability to preview files, attach other electronic files, select different eRooms or folders, and batch and forward a group of files. Additional product and sales information can be found at www.visioneer.com/e4e.

"Our clients have recognized the ROI of having their electronic content in the ECM system, but they often struggle with finding a solution to get the same value out of their paper documents. e4e answers that challenge. The capability to literally go in one step from hard copy to a fully searchable electronic file that can be found anywhere via eRoom's URL interface truly unlocks the value of their content," said Kara Cleaver, President of Daybreak ICS.

When scanned to searchable PDF (sPDF) format, the full-text index is fed automatically to the eRoom search capability. Users can search in eRooms to find all documents containing specified text across eRooms and folders. Instead of having to open each scanned image and read it, users can search throughout the contents of one or more eRooms to find all occurrences of a specified word or phrase.

EMC Documentum eRoom is a secure, Web-based workspace that can be tailored for a specific project, process, or business initiative. eRoom is secure, flexible and easily configurable, allowing users to customize and use their collaborative workspaces to support a wide range of business processes and work together more efficiently.

For example, with the core Documentum 5 platform underneath, an organization could automate a proposal submission process by predefining a workflow that involves employees from Sales, Finance and Engineering. When the proposal reaches the approval stage of the process, Documentum can automatically trigger the creation of eRoom workspaces, preconfigured with appropriate memberships, content and tools.

CIMdata PLM Industry Summary

eCapture for eRoom was jointly developed by Daybreak Intellectual Capital Solutions, Inc., a Documentum Signature Partner and Select Services Team member, and Visioneer, Inc., a world-class developer of intelligent imaging solutions.

Visioneer and Daybreak received the EMC "Designed for Documentum" logo designation, a mark of quality and value that customers insist on in enterprise applications. The Designed for Documentum accreditation demonstrates that eCapture for eRoom has successfully met a comprehensive set of criteria for good design, development and implementation. As members of the EMC Documentum Application Logo Program, Visioneer and Daybreak received specialized design consultation and guidance, along with access to dedicated EMC content management technical resources. (Editorial Note: See 10/24/05 press release titled "eCapture for eRoom Receives EMC Designed for Documentum Accreditation" for more information.)

Visioneer offers both its Visioneer- and Xerox-branded products under a single reseller partners program. The 20/20 Perfect Vision program optimizes VAR margins and sales opportunities through volume incentive rebates, sales support, marketing tools, access to the 20/20 Perfect Vision extranet and blog. Additional information can be found at www.visioneer.com/2020.

Visioneer's high-performance business scanners and imaging software solutions have always offered business users speed, quality, and advanced paper handling options. In 2003, Visioneer combined its leading scanner technology with the Xerox brand recognition to develop the Xerox DocuMate series of workgroup scanners. For additional information on Visioneer and Xerox scanning solutions, please visit <http://www.visioneer.com> or <http://www.xeroxscanners.com>.

Daybreak ICS provides a full suite of enterprise content management (ECM) products and services in the create/capture, manage, deliver, and archive spaces. Daybreak delivers a 360 degree view of the Documentum implementation having been users, consultants / implementers, integrators, and trainers of the Documentum content management system. Daybreak offers implementation of customized solutions and cohesive training across clients' business environments. Whether needing more from an existing system or planning a new system, Daybreak can help integrate the powers of process and technology to achieve the desired results. Daybreak is a Documentum Select Services team member, Arbortext Alliance partner, professional member of AIIM International. Preferred provider of custom training for Documentum and Arbortext. For more information, visit <http://www.daybreakICS.com>.

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