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## Acquisitions

### ***Serena Software to Be Acquired by Silver Lake Partners in a Transaction Valued at Approximately \$1.2 Billion***

10 November 2005

Serena Software, Inc. and Silver Lake Partners, the leading private equity firm focused exclusively on large-scale investing in technology and related growth industries, announced that they have entered into a definitive agreement under which Serena will be acquired by Silver Lake in a transaction valued at approximately \$1.2 billion.

Under the terms of the agreement, Serena stockholders will receive \$24.00 in cash in exchange for each share of stock. Any of Serena's existing \$220 million of convertible notes that are not converted to Serena common stock prior to completion of the proposed transaction will be exchanged for cash in an amount of \$24.00 for each share of Serena common stock into which the notes were convertible. Douglas

D. Troxel, founder of Serena and currently its chairman and largest shareholder, will receive \$24.00 per share in cash in exchange for one-third of his shares and will exchange the balance of his equity interest in Serena for shares in the resulting privately held company. Serena president and chief executive officer Mark Woodward, chief financial officer Robert Pender, and possibly other senior executives will also exchange a portion of their Serena equity interests for equity interests in the resulting privately held company.

Both the board of directors of Serena and a special committee of the board comprised of independent directors have approved the merger agreement and have recommended to Serena's stockholders that they vote in favor of the transaction. In addition, Mr. Troxel has agreed to vote his shares in favor of the transaction.

Mark Woodward, president and chief executive of Serena, said, "Today's announcement is great news for Serena and its shareholders. Our decision to partner with Silver Lake to take the company private represents the culmination of a thorough review of our standalone plan and strategic alternatives and we believe this is the best value proposition for our shareholders."

David Roux, a co-founder and managing member of Silver Lake Partners, said, "Serena is a great company. We have complete confidence in Mark Woodward and the rest of the Serena management team and look forward to working with them to enhance and extend their successful track record as the leader in Change Governance, providing comprehensive solutions to customers across the corporate and public sector spectrum. We believe our interests are aligned with the long-term interests of Serena's customers and employees."

The transaction is expected to be completed in the first quarter of calendar year 2006, subject to receipt of stockholder approval and customary regulatory approvals as well as satisfaction of other customary closing conditions, including receipt of debt financing pursuant to customary commitment letters.

### *Preliminary Third Quarter Results*

Serena also announced preliminary results for the third quarter ending October 31, 2005. Based on preliminary estimates, the company expects license revenues to be in the range of \$21.5 million to \$22.5 million and total revenues in the range of \$64 million to \$65 million. GAAP net income per fully diluted share is expected to be \$0.20 to \$0.21 and non-GAAP net income per fully diluted share is expected to be \$0.35 to \$0.36. These preliminary results include a one-time tax benefit of \$1.4 million.

The company cautioned that these results are preliminary and actual results could vary materially when the company reports final earnings for the third quarter of fiscal 2006 on November 17, 2005, after the market close. Further details on the company's expectations going forward will be provided in the third quarter fiscal earnings conference call.

### *Advisors*

Morgan Stanley acted as financial advisor to the special committee of the board of directors of Serena and provided a fairness opinion to it in connection with the transaction. Wilson Sonsini Goodrich & Rosati P.C. acted as legal advisor to the special committee of the board of directors of Serena in connection with the transaction. Gibson Dunn & Crutcher LLP acted as legal advisor to Serena's management in connection with the transaction.

Upon closing, the transaction is expected to be financed through a combination of equity contributed by Silver Lake and debt financing provided by Merrill Lynch & Co., Lehman Brothers, and UBS. Merrill Lynch & Co. and Lehman Brothers acted as financial advisors to Silver Lake in connection with the transaction. Simpson Thacher & Bartlett LLP acted as legal advisors to Silver Lake in connection with the transaction.

### *Webcast*

Serena will host a conference call to discuss this announcement, Friday, November 11, 2005, at 8:30 a.m. EST. An audio replay of the call will be available from noon today through Friday, November 25, 2005 at <http://www.serena.com> and at (800) 642-1687 (toll free) or (706) 645-9291 (international), Conference ID# 2335682.

Silver Lake Partners is the leading private equity firm focused exclusively on large-scale investing in technology and related growth industries. Its portfolio companies include technology industry leaders such as Ameritrade, Business Objects, Flextronics, Gartner, Nasdaq, Network General, Seagate Technology, SunGard Data Systems, Thomson and UGS. Silver Lake also recently announced the acquisitions of Agilent's Semiconductor Products Group (now known as Avago Technologies) and Instinet's Institutional Broker division. For more information, please visit <http://www.silverlake.com>.

### *Additional Information and Where to Find It*

In connection with the proposed merger, Serena will file a proxy statement with the Securities and Exchange Commission. INVESTORS AND SECURITY HOLDERS ARE STRONGLY ADVISED TO READ THE PROXY STATEMENT WHEN IT BECOMES AVAILABLE, BECAUSE IT WILL CONTAIN IMPORTANT INFORMATION. Investors and security holders may obtain a free copy of the proxy statement (when available) and other documents filed by Serena at the Securities and Exchange Commission's Web site at <http://www.sec.gov>. The proxy statement and such other documents may also be obtained for free by directing such request to Serena Software Investor Relations, 2755 Campus Drive, 3rd Floor, San Mateo, California 94403-2538, USA, telephone: (650) 522-6600.

Serena and its directors, executive officers and certain other members of its management and employees may be deemed to be participants in the solicitation of proxies from its stockholders in connection with the proposed merger. Information regarding the interests of such directors and executive officers is included in Serena's Proxy Statement for its 2005 Annual Meeting of Stockholders filed with the Securities and Exchange Commission on May 24, 2005, and information concerning all of Serena's participants in the solicitation will be included in the proxy statement relating to the proposed merger when it becomes available. Each of these documents is, or will be, available free of charge at the Securities and Exchange Commission's Web site at <http://www.sec.gov> and from Serena Investor Relations, 2755 Campus Drive, 3rd Floor, San Mateo, California 94403-2538, USA, telephone: (650) 522-6600.

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## CIMdata News

### ***Industry Outlook: A PLM Supplier Analysis, By Ed Miller & Ken Amann***

October/November 2005

This article published, in the October/November 2005 issue of COE NewsNet, provides a perspective on the performance of the various major suppliers of PLM technology-based solutions. The information provided here is a summary of information that CIMdata has included in its annual analysis of the Product Lifecycle Management (PLM) market. The full analysis [[PLM Market Analysis Report 2004](#)] provides a perspective on PLM across a variety of industry and geographic sectors, identifies market

trends, reviews investments in PLM-related software and services during 2004, and forecasts PLM investments for 2005 through 2009.

To access the full text of this article please visit <http://www.cimdata.com/publications/articles.html>.

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## Company News

### **Alias Presents Design MasterClasses: Industry Experts Offer Exceptional Solutions to Design Challenges**

8 November 2005

Alias® is hosting Design MasterClasses™ in Atlanta on December 9, 2005 and San Francisco, December 13, 2005. These 90-minute sessions, presented by industry experts, will focus on tips, tricks and technique for modeling and rendering in Alias StudioTools™ as well as valuable techniques to improve users' speed and efficiency. Event registration is now available online at <http://www.alias.com/masterclasses> with early bird pricing available until November 15.

Featured Design MasterClasses include:

- Texturing, Lighting and Rendering: Insider Tricks by Fridolin Beisert, Lead Studio Tools Instructor, Art Centre College of Design
- Modeling for CAD Data Transfer and Rapid Prototyping by Famia Ablo, Senior Industrial Designer, Tupperware

In San Francisco, Design MasterClasses will be held at the SFSU College of Extended Learning located at 425 Market Street. In Atlanta, Design MasterClasses will be held at The Art Institute of Atlanta located at 6600 Peachtree Dunwoody Rd., 100 Embassy Row.

### *Pricing*

Single Session (one ticket to any class)

Regular US \$125, Early Bird US \$110

StudioTools MasterClass Kit (two sessions, Learning Tools bundle and Notes)

Regular US \$250, Early Bird US \$200

Comprehensive MasterClass Kit\* (20 tickets and Learning Tools bundles & Notes)

Regular US \$1500, Early Bird US \$1200

\*The Comprehensive MasterClass Kit permits large studios and design facilities to save big when they send multiple participants to this MasterClass event.

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### ***Arena Solutions Launches Arena Supplier Marketplace, a Community of Suppliers Using On-Demand PLM to Create New Revenue Streams***

8 November 2005

[Arena Solutions](#) announced the launch of the Arena Supplier Marketplace, an online directory of product design firms, contract manufacturers, component suppliers, and fabricators trained and certified on Arena PLM. The Supplier Marketplace directory will be accessible to all users of Arena PLM from within the application, as well as the company's website, allowing companies to find, connect with, and engage in new supply chain partnerships. At the time of the launch, nearly 100 suppliers have signed up as Charter Members of the Arena Supplier Marketplace.

“Collaboration between OEMs and suppliers is pivotal to successfully bringing products to market on time and on budget, especially in today's global, outsourced manufacturing environment,” said Michael Topolovac, CEO of Arena Solutions. “Suppliers provide integral products and services to Arena's manufacturing subscribers and are valued members of the Arena community. In launching the Arena Supplier Marketplace, we're opening up new opportunities for global suppliers and OEMs to interact and engage. It's a dual value proposition – for suppliers seeking new customer relationships and a lower cost way to conduct business – as well as Arena manufacturers seeking alternate sourcing relationships or parts suppliers for new product introduction.”

To date, more than 2,000 individual supplier users have been invited by more than 15,000 manufacturing, engineering, and purchasing professionals to use Arena PLM to communicate vital product information and collaborate in an on-demand environment that is cost-free to the supplier. In today's manufacturing environment, this type of outsourcing has become a requirement. Arena PLM enables companies of any size to leverage the global supply chain to remain a vibrant and successful force in the U.S. economy.

Arena's on-demand PLM application moves the relationship between supplier and OEM beyond transactional into a true partnership by easily and cost-effectively facilitating collaboration throughout the product development cycle. With the introduction of the Supplier Marketplace, Arena now provides manufacturers and suppliers with the opportunity to easily seek out and engage in new relationships to help grow their businesses. With instant provisioning through its on-demand business model and free online training for Supplier Marketplace participants, manufacturers can engage a new supplier in the matter of minutes. The increasing rate of new product introduction and pending compliance regulations – such as RoHS – are driving the need for greater supplier intimacy and the ability to quickly find, qualify, and engage with new suppliers for alternate sourcing.

Suppliers using Arena PLM to interact with their OEM customers lower their cost of doing business and become a valued partner, participating in the entire product lifecycle, from inception to innovation. This

positively impacts the entire manufacturing community with long-term benefits for suppliers and manufacturers alike.

“Some of our best customers are the ones that use Arena,” said Mike Keer, director of operations for Paramit, a company that provides specialized electronic manufacturing services. “In utilizing Arena PLM, we’re able to easily collaborate with these companies and have real-time insight into product information and proactive participation in the change management and request processes.”

Because Arena PLM software is delivered as a service, every user has access to the application with no software installations or downloads, no costly deployments, and no ongoing IT maintenance. Freed from the hassles of managing IT, manufacturers and their suppliers are able to focus 100 percent of resources on product innovation. The on-demand nature of the Arena application encourages the creation of communities of suppliers and manufacturers and facilitates enhanced interaction among those entities. Arena PLM is a web-based application that enables OEMs to work more in partnership and communicate easily with their geographically distributed suppliers, creating a competitive advantage for both the suppliers and OEMs.

Participants in the Arena Supplier Marketplace receive:

- Free training and certification on the Arena PLM application.
- A marketing presence on the Arena Supplier Marketplace.
- Access to hundreds of manufacturers and thousands of subscribers already using Arena PLM today.
- Visibility to thousands of prospects that visit Arena’s website on a daily basis.
- The opportunity to participate in ongoing PLM marketing and visibility initiatives.

Arena PLM enables manufacturing companies to share – in real time – a single version of the product record, facilitating design and engineering collaboration in diverse industries such as high-tech electronics, medical devices, and consumer products. With an easy to use application that can be accessed on-demand, everyone in the global outsourced supply chain – from OEMs to their contract manufacturers, outsourced designers, and suppliers – is allowed to work more efficiently, speed time to market, and more capably address market pressures.

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***Autodesk Green Index Predicts 100 Percent Increase in Green Design Practices by Architects by 2010***

10 November 2005

Autodesk, Inc. announced the results of the first annual Autodesk Green Index, a study commissioned to evaluate the use of green design elements and practices by architects. The study indicated that the rate of adoption of green building elements is accelerating, with the use of high-efficiency heating, ventilating and air-conditioning (HVAC) systems leading the way, followed by the increasing use of design software to predict and evaluate HVAC operating costs, solar lighting, and retention basins for storm water run-off. The study queried practicing architects on their expected use of 16 green design practices and elements from five years ago, the previous 12 months and the expected use of these practices five years from now.

"We will see a dramatic increase in the very near future in the green design strategies architects use to design buildings," said Phil Bernstein, FAIA, LEED AP, vice president of Autodesk Building Solutions Division. "Architects and designers will need to be increasingly familiar with materials research, energy and atmosphere management alternatives and design software tools that facilitate these new green designs practices using building information models (BIM)."

Incorporating high-efficiency HVAC systems was found to be the most common element of green building design today, with greater than 50% of the study's architects specifying use on more than half of their projects over the past year. Sixty-seven percent of the architects responding to the survey used design software to maximize solar lighting, and approximately 64% used retention basins. More than half of architects used design software to predict and evaluate HVAC operating costs in the past year with one third of these architects using this software on more than half of their projects. Other elements and practices identified as important to incorporate into green buildings include monitoring devices for lighting, heating and cooling, evaluation of building materials to maximize energy performance and minimize environmental impact, use of design software to do energy modeling/baseline analysis, use of salvaged, refurbished, or reused building materials products, maximization of interior solar lighting, and prediction and evaluation of the environmental impact and lifecycle of building materials. The study investigated the use of 16 practices based on the US Green Building Council's LEED (Leadership in Energy and Environmental Design) standards.

### *Renewable Energy, Green Roofs and Design Software Use to Skyrocket*

Some practices that are uncommon today, such as green roofs and on-site renewable energy, are expected to increase significantly over the next five years. The use of renewable on-site energy is expected to increase over 200% in the next five years, with use of vegetated or green roof covers increasing by 167%. Architects responding to the survey expect to have greatly expanded their use of design software in five years to:

- Specify material quantities and schedules to minimize waste during construction process (150% increase)
- Predict and evaluate solar lighting (150% increase)
- Predict and evaluate solar heating (125% increase)

- Evaluate and explore alternative building materials to maximize energy performance and minimize environmental impact (100% increase)
- Conduct energy modeling/baseline analysis (90% increase)

### *High Costs and Client Education Affect Growth of Green Design*

Fifty-two percent of the architects reported that the leading obstacle to wider adoption of green design practices and processes is cost/budget with almost one third of responding architects reporting that client education is the leading obstacle. The implication is that if green design practices are to become more widely used, the industry needs to take a proactive approach to educate its clients about the long-term benefits of incorporating green building practices relative to their initial costs.

The study's architects believe that the greatest impetus for the adoption of green initiatives will come from higher energy costs for heating, cooling and lighting. This in turn will induce clients to demand efficient, renewable sources. Government intervention, using either a stick (regulatory requirements) or a carrot (incentives), would also influence adoption according to the survey. Sixty-four percent of commercial architects contributing to the study believe that client demand has the greatest influence on whether or not green initiatives are incorporated into the design process. Eighty-five percent of the study's residential architects believe rising energy cost has the greatest influence and 81% of institutional architects believe regulatory requirements and client demand have the greatest influence on the adoption of green design practices.

### *Methodology*

This Internet survey was conducted in October 2005 among architects practicing in the United States. Of the architects who responded to the survey, 54% are predominantly involved in commercial projects. The rest are involved with single-family homes (24%), institutional (19%), or industrial projects (4%). Fifty-seven percent have ten or more years of experience as an architect. Seventy percent have received training or continuing education on the subject of green buildings. The full survey is available at <http://www.autodesk.com>.

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### ***Call for Participation in the OASIS Symposium: The Meaning of Interoperability***

November 2005

[OASIS Symposium: The Meaning of Interoperability](#) will be held 9-12 May 2006 Grand Hyatt San Francisco Hotel San Francisco, California, USA.

***CALL FOR PARTICIPATION—DEADLINE 20 DECEMBER 2005***

With a primary focus on e-Government and e-Business applications, the OASIS Symposium will investigate all the facets of interoperability, their dependencies, the enabling technologies, standards and practices, and opportunities for improvement. The event aims to help practitioners and designers of e-Business or e-Government systems get a broader, more aligned understanding of interoperability issues and solutions.

OASIS invites proposals for presentations, panel sessions, and tutorials on topics related to one or more aspects of interoperability, including but not limited to the:

- standards perspective
- business perspective
- semantic perspective
- contractual perspective
- infrastructure and product perspective
- testing perspective

Additional details may be found on the event web site: [http://www.oasis-open.org/events/symposium\\_2006/call\\_for\\_participation.php](http://www.oasis-open.org/events/symposium_2006/call_for_participation.php).

OASIS also invites tutorials on topics not directly related to the Symposium theme.

### *PROPOSAL INSTRUCTIONS*

Presentations should be roughly 30-40 minutes in length, including a question-and-answer period. All presentations will be chaired by a member of the Program Committee.

Panel sessions should be roughly 60-75 minutes in length, including a question and answer period. Proposals for panels should include the topic, three to four potential panelists (name and/or role) and proposed format (e.g. Q&A, short presentations, or both). All panel sessions will be moderated.

Tutorials should be a half-day format (roughly three hours, including a break). Tutorial proposals should state the intended audience and learning objectives.

### *TO SUBMIT A PROPOSAL*

Please send the following information using the submission Web page: [https://www.oasis-open.org/apps/2006\\_symposium\\_presentation\\_sub/register\\_contact.php](https://www.oasis-open.org/apps/2006_symposium_presentation_sub/register_contact.php)

## CIMdata PLM Industry Summary

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\* Full contact details (name, affiliation, email, phone, postal address) of one presenter who will act as the primary contact for the presentation or panel discussion

\* Full list of authors and/or additional presenters, if any

\* Brief biography (one paragraph) for all authors

\* 2000-word maximum extended abstract outlining the subject, title, and key points of your presentation, panel discussion, or tutorial.

**Deadline for submission is 20 of December 2005.** All submissions will be acknowledged.

### *IMPORTANT DATES*

- Proposals Due: 20 December 2005
- Notification by: 14 February 2006
- Final Materials Deadline: To Be Announced in Confirmation Letter OASIS
- Symposium: 9-12 May 2006

### *RELATED MEETINGS*

The OASIS Plenary and Annual General Meeting (AGM) will be held at the Symposium. This once-a-year event provides a members-only opportunity to review and respond to a state-of-the-union address presented by the OASIS Board of Directors. The AGM will be followed by an evening reception offering the perfect place to network with OASIS members, directors, and staff. OASIS will also host Technical Committee meetings on 10, 11, and 12 of May. A complete list of TC meetings will be posted on the TC Information Page (as they become known) [http://www.oasis-open.org/events/symposium\\_2006/tc\\_meetings.php](http://www.oasis-open.org/events/symposium_2006/tc_meetings.php). This page also includes meeting space reservation information.

For further information, comments, and questions, send email to [symposium@oasis-open.org](mailto:symposium@oasis-open.org).

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### ***Delcam USA Expands Distribution by Appointing Aztech as FeatureCAM Master Reseller in South Africa***

8 November 2005

Delcam USA has appointed AZtech Design and Manufacturing Solutions as the master reseller of its FeatureCAM range of CAD/CAM software in South Africa. Under the new arrangement, Redman Engineering Supplies CC will work with AZtech and continue as a FeatureCAM reseller. AZtech has enjoyed a close working relationship with the Delcam parent company for the past five years, and has been consistently successful in selling and supporting its extensive Power Solution range of CAD, CAM, reverse engineering and inspection systems in South Africa.

“Our initial plan was to only sell a portion the FeatureCAM product line, but after learning more about FeatureCAM’s automated approach and the depth of their solutions, we decided to promote the entire product immediately and discontinue our relationship with PathTrace,” said Georgio Yannikarkis, President of AZtech. “Previously, we had concerns about providing a broadly competitive product line. We can now provide a complete CAM solution from production milling, turning, and wire to mold design and complex 5-axis machining from a single source, Delcam.”

“We’re excited to be working with AZtech and to participate in their ‘Africa Needs Technology’ program”, added Glenn McMinn, President of Delcam USA. “We have designed a customer-friendly upgrade campaign so that AZtech’s existing customers can easily transition to FeatureCAM’s automated solutions and still enjoy the professional support they’ve come to expect from AZtech.”

Under the new arrangements Redman will continue to support its FeatureCAM customers directly and will be backed up with the technical support of both AZtech and Delcam USA when required. “We’re pleased to be partnering with AZtech and to continue as a FeatureCAM reseller,” said Shane Redman, President of Redman Supplies and Engineering. “With the opening of our new offices in Johannesburg, we’re expecting our FeatureCAM business to grow considerably in the upcoming months.”

Delcam posted record sales in 2004, confirming its position as a world’s leading specialist supplier of machining software and services in the CIMdata rankings. With the addition of the FeatureCAM range, sales are confidently expected to grow even faster this year.

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### ***Delcam Granted Patent for Total Modelling CAD System***

November 2005

Delcam announced that the company has been granted a UK patent (Patent No. 2 389 764) for its unique Total Modelling method for adding logos, textures, styling details and other decoration to CAD models. Successful applications of the technique already include the development of packaging, footwear, ceramics and toys, and many other products where complex decoration can add value.

Total Modelling moves beyond conventional solid and surface modelling by bringing together elements of Delcam’s Power Solution software range in a unique, fully-integrated combination of CAD design, reverse engineering and triangle modelling methods. This wide range of techniques gives designers the ability to create innovative products more easily and more quickly, without any restrictions to their creativity. It provides the fastest method for the early “What if?” stage of concept design, allowing a far greater number of alternative proposals to be created and compared in a much shorter time.

Total Modelling enables triangle models, including those generated within the ArtCAM engraving program and the CopyCAD reverse engineering system, to be incorporated into surface or solid models created in Delcam's PowerSHAPE hybrid CAD software. This close integration means that designers can move between the different types of modelling more easily and see more quickly the effects on the overall design of any changes in a single element.

The patent granted covers three key aspects of product design with CAD. Firstly, it covers the ability to create a solid model that combines parametric surfaces and faceted reliefs, such that the resulting model is watertight. Secondly, it covers Delcam's unique embossing method based on wrapping using texture mapping. Thirdly, it covers the ability to represent the embossing as a solid feature, such that when the underlying surfaces change the embossing is re-wrapped and re-trimmed.

Total Modelling enables logos, textures and other decorations to be incorporated into product designs more readily to help reinforce branding. It also means that any subsequent changes can be completed more quickly, for example when updating a design to be used in merchandising for a new television or film promotion. The use of Total Modelling is both more flexible and more powerful than the Boolean addition techniques used in most CAD modellers.

Total Modelling also enables the addition of styling features to products ranging from automotive exteriors to domestic appliances. In the automotive industry, different body styling of both decorative features and functional items, like air intakes, can be incorporated with an exact match to the underlying bodywork. The size, position and design of these features can be changed in seconds, rather than the hours that would be needed with conventional CAD modelling techniques. In a similar way, both decorative items and functional textures, such as grip surfaces, can be added to designs for electrical equipment that needs to meet both aesthetic and practical requirements.

Total Modelling can also be used for any bespoke items, for example, footwear, medical devices, prosthetics or sports equipment. Design data specific to the individual customer or patient can be captured by reverse engineering and then used to modify a general outline design to any particular requirements.

"The granting of this patent has confirmed the unique and innovative nature of Total Modelling," commented Delcam's CAD Development Director, Stuart Watson. "It means that Delcam is the only company able to offer this extremely powerful and flexible way for designers to work with CAD data, regardless of the way it has been created or whether it exists in a solid, surface or triangle format."

"In addition, because Total Modelling can be directly linked into all Delcam's downstream applications for tooling design, machining, and inspection, once the design has been finalised, it can be brought into mass production quickly and cost-effectively."

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### ***Federation Software Expands Operations to Germany***

7 November 2005

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

“We felt that establishing a presence on mainland Europe made perfect sense at this time given that our software solutions apply to international businesses—in a world that is trying to come to terms with the ever-expanding global scope of PLM,” noted Kirk Hanes, president and CEO of Federation Software. “The expansion will afford us the perfect opportunity 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. “The opening of both the UK and German offices marks a significant step for the company – establishing Federation Software as a global entity,” 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.

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

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### ***LMS Expands Development Centers and Commercial Operations in Europe and Asia***

4 November 2005

LMS announced the creation of a new Eastern European engineering and software development center in Romania, the opening of a new commercial subsidiary in Singapore and additional offices for its sales activities in China. The opening of the new offices complements a considerable expansion of LMS' headquarters office and development center in Leuven, Belgium, and the recent opening of new offices in Munich, Lyon and Moscow. The extensions are part of the continued international expansion strategy of LMS and will further strengthen the company's capabilities to deliver top-class engineering software and services. Over the next 2 to 3 years, LMS expects to expand its total number of employees to over 800.

To support the expansion of its software and systems development activities in the area of virtual prototype simulation and physical testing, LMS initiated a considerable extension of its headquarters facilities in Leuven, Belgium. The new office provides an additional 3300 square meters and will allow LMS to expand its Leuven-based staff from 350 to 400 employees over the next 2 to 3 years.

Next to the extension of the headquarter facilities, LMS recently created a new engineering and software development center in Brazov, Romania. By the end of 2007, LMS plans to recruit a team of over 50 engineers in its Eastern European competence center. "We created the new subsidiary in Romania to take optimal advantage of the extensive availability of top-quality engineers in Eastern Europe at very affordable conditions", commented Urbain Vandeurzen, Chairman and CEO of LMS. "With a current yearly R&D budget of 25 million Euro, LMS is strongly committed to developing innovative technologies. The new team will further support the steady growth of our R&D capacity in our five other development locations in Europe and the US. It will play a key role in accelerating our software development activities and in expanding our engineering services capabilities."

Building on the company's already impressive growth in South-East Asia, LMS decided to extend its current network of fully owned operations and representative offices in Asia with a new subsidiary in Singapore. The new Singapore office will become a regional hub to support LMS' indirect sales channels in the South-East Asia region. In China, in addition to its Beijing office, LMS is also adding two new offices in Shanghai and Guanzhou. The new offices are intended to increase the regional coverage of LMS in the booming Chinese market for engineering software and services. Overall, the growth in the Asian market, and the strong presence of LMS in Europe and the US, deliver a well-balanced revenue spread for the company: 42% in Europe, 36% in Asia and 22% in North America. With the addition of new sales offices, LMS now operates from 18 direct sales offices and 25 representative offices worldwide.

"Over the past decade, LMS has been steadily investing in Asia and building successful subsidiaries in Japan, Korea, India and China," commented Urbain Vandeurzen. "These new investments in additional sales and support offices will undoubtedly make Asia the strongest growth and revenue contributor for LMS in the next years to come."

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### ***Mastercam X on Display at Mazak's 'Touch the Future' Event***

November 2005

CNC Software will be showcasing the new Mastercam X CAD/CAM software at the Mazak "Touch the Future" 2006 technology demonstration, November 8-10, 2005 at Mazak's corporate headquarters located in Florence, KY. Touch the Future is the largest private technology demonstration of machine tools and manufacturing solutions in North America.

[Mastercam](#) is provided to and used by the North American Mazak application engineers. If a program requires or a customer requests G-code output, Mastercam is frequently the preferred programming system. Mastercam has the software capabilities, proven post processors, and dedicated support that is required by Mazak. Mastercam was used to program and run several machines at this event including various models and configurations of Integrex, horizontal and vertical E-series machines, 5-axis Variaxis machines, and a Nexus VMC 4-axis machine.

"Touch the Future" will present the opening of Mazak's new Center for Multi-tasking and Manufacturing Excellence. The center has doubled in size and features every category of machine that Mazak manufactures. Mazak uses the facility to team up with their supplier partners to implement innovative turnkey solutions for their customers.

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### ***MatrixOne to Host Annual Automotive Customer Conference***

11 November 2005

MatrixOne, Inc. announced that the company will host its annual Automotive Customer Conference at the Hyatt Regency in Dearborn, Michigan on Thursday, November 17, 2005.

Joe Loridas, director of automotive, Americas for MatrixOne will deliver the opening keynote, "Driving Business Value with PLM Solutions in the Automotive Industry." This day-long event also includes general sessions on topics ranging from customer successes with PLM to ways to achieve greater ROI. Attendees will hear from MatrixOne customers, including Eicher Motors, Motorola Automotive, Siemens VDO and Textron. PLM break-out sessions will explore actionable solutions, and conference participants will have the opportunity to learn about MatrixOne's automotive industry products overview. Luncheon roundtables will be held to discuss a variety of compelling automotive PLM topics, such as design for regulatory compliance and managing supplier quality.

"The automotive industry operates in an extremely competitive, challenging global environment, making new product introduction as a means of differentiation more important than ever," said Mike Segal, senior vice president of global sales and services for MatrixOne. "Customer success is the cornerstone at MatrixOne and our solutions unify and streamline processes across the product lifecycle to enable delivery of the right product at the right time at the right cost. The goal of the Automotive Customer Conference is to share best practices for all facets of the manufacturing process and to help our automotive customers drive value for their companies."

For additional information, including the full agenda and registration form, please visit <http://www.matrixone.com/matrixone/events.html>.

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### **McLaren Software Receives Top Award From EMC Documentum**

2 November 2005

McLaren Software, an independent software vendor specializing in applications for engineering-content management, has received EMC Corporation's top award for Documentum-based products.

The award, known as the "EMC Designed for Documentum 2005 Offering of the Year," recognizes a single EMC partner for the quality and success of its software. Before selecting McLaren, EMC conducted a careful evaluation of products from more than 50 of its software partners. According to EMC, McLaren's products stood out because of their "high platform utilization" and significant "revenue contribution," helping to make McLaren a "leader in out-of-the-box content-based applications for engineering markets."

Commenting on the award, McLaren CEO Paul Muir explained that he "is extremely proud of the acknowledgement, which represents the culmination of eight plus years of hard work building our products and growing a relationship with EMC Documentum." He goes on to point out that the award validates the content-management space's movement to the "forefront of corporate-process infrastructure" and the need for purpose built applications to control and manage business processes for workers who primarily deliver their work product in the form of a document, presentation or drawing.

More than 500 customers in 47 countries – including 250 Global 2000 companies – use McLaren's software to centrally manage and control engineering functions like drawing management, concurrent engineering, transmittals, document management and global collaboration. The result is a better

connection between engineers and the extended enterprise – meaning improved efficiency, as well as reduced costs, lower non-compliance risks and a decrease in lost production time.

McLaren Software develops engineering process and content management applications for companies in the process manufacturing, utilities, life sciences and engineering, design & construction sectors. McLaren helps organizations maximize the value tied up in their engineering documents, drawings and business processes while mitigating the commercial risk associated with their use.

McLaren's Enterprise Engineer application suite supports the engineering process by providing a single point of control to manage the production and use of project content including drawings, correspondence, procedures and specifications. Enterprise Engineer will help reduce costs; lower the risk of non-compliance; improve efficiency and accelerate project execution. Website: <http://www.mclarensoftware.com>.

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### **More Than 40 Partners to Exhibit at Primavera® Annual Conference**

10 November 2005

Primavera Systems, Inc. announced that 41 of its partners will exhibit at the company's 22nd Annual Conference taking place November 13-16 at the Walt Disney World Dolphin Hotel in Lake Buena Vista, Florida. The event, one of the largest of its kind, expects approximately 1,500 attendees, and is a major educational forum for individuals involved in project, portfolio and resource management.

“The Primavera Annual Conference is by far the most important and strategic event of the year for Pertmaster,” said Dan Patterson, Vice President of North America Operations for Pertmaster LLC. “We're able to interact with hundreds of project managers, planners and schedulers from various industries that are all focused on the management of project risk. No other event comes close in providing the in-depth knowledge and insight into project management that Primavera's conference offers.”

The four-day event is considered one of the best conferences for project management professionals due to its quality of presenters, variety of exhibitors and multiple sources of information on project management.

“We're offering a variety of ways for attendees to build upon their project management knowledge and continue their professional education,” said Dean Edmundson, Director of Technology Alliances for Primavera. “We look to our partners to provide valuable one-on-one sessions to demonstrate how their complementary solutions help our customers satisfy their unique business processes.”

Primavera's comprehensive partner program meets customers' project management needs through Primavera Authorized Partners, Primavera Solution Providers (PSPs), Primavera Authorized Representatives (PARs) and other consulting partners. Primavera partners that will exhibit at the Primavera Annual Conference include:

## CIMdata PLM Industry Summary

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- AACE
- Adobe
- AniWorld, Inc.
- Asset Performance Networks
- Calpine Corporation
- Construction Imaging Systems
- The Construction Link
- C/S Solution
- DecisionEdge
- EcoSys Management LLC
- eTimeMachine.com
- Hard Dollar
- Humphreys & Associates
- Implementation Management Associates (IMA)
- Impress Software
- Innovative Management Solutions, Inc. (IMS)
- Intech Professionals LLC
- Intergraph
- Integrated Project Solutions
- JumpStart Wireless
- LaborLogix
- LinkEdge
- LoadSpring Solutions
- LYNXPM
- McGraw-Hill Construction
- Mid-State Solutions
- MoriahCom
- Morpheus Technology Group
- Mountain Data Systems, Inc.
- MRO Software
- NavisWorks
- On-Time Systems
- Pertmaster
- Pervasive Software
- Plan Express
- PMA Consultants
- Project Management Centre
- Ron Winter Consulting
- Strategic Thought
- TCR
- U.S. Cost

“[Primavera](#) is dedicated to the advancement of project management,” said Joel Koppelman, Primavera CEO. “Our annual conference is one of the best opportunities during the year for 1,500 people to discuss and learn more about project and portfolio management. Our partners play a key role in advancing project management and we look forward to their participation at the conference.”

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### ***MSC.Software VPD Conferences Shape the Future for Simulation Technology***

8 November 2005

## CIMdata PLM Industry Summary

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MSC.Software Corp. has continued the international VPD Conference series which has now addressed 25 countries and over 1500 manufacturing professionals.

Following earlier successful events in Turkey and the Czech Republic, the EMEA (Europe, Middle-East & Africa) Conference, held at the Hilton Park Hotel in Munich on 24-26 October, brought together MSC.Software's executive and technical staff with manufacturing and engineering organizations, alliance partners, and media and industry analysts from EMEA, the Americas and Asia-Pacific regions.

In front of a dynamic new corporate backdrop, new MSC.Software CEO, Bill Weyand, described how MSC is responding to changing industry requirements by evolving VPD technology from point solution CAE tools to a complete, open, and integrated simulation environment. The opening Conference address, 'VPD at the Inflection Point', outlined how long-term customer and alliance partnerships are driving the technology needed for enterprise-wide design, development & manufacturing operations. Integrated VPD environments was a central theme that was further explored in presentations from MSC's executives of MSC's SimOffice, SimDesigner and SimManager solution platforms.

"We are continuing to drive a technology and business transformation which more closely aligns our organization with our key EMEA customers. The ongoing success of our VPD Conferences is a confirmation of both the intensity and the longevity of our relationships with our customers and partners in EMEA," Amir Mobayen, senior vice president, EMEA, MSC.Software.

With over 75 customer presentations, the EMEA Conference agenda addressed a wide range of topics relating to VPD application, process, and management. Keynote aerospace presentations from EADS Military Aircraft, EADS-CASA, Airbus, BAe Systems, Snecma, MTU AeroEngines, and Avio, and in automotive from Ford, BMW, Daimler Chrysler, Audi, PSA Peugeot-Citroen, Porsche, GM, Mitsubishi, Nissan, and MagnaSteyr, provided the foundation of the agenda, while additional sessions focused on innovative applications and business processes from mass transportation, machinery, motor-sport, consumer goods, & biomedical industries. The special contributions of a selection of key EMEA customer participants were also recognized in the '2005 Innovation Awards' that were presented during the Conference dinner.

"Participation in the EMEA VPD Conference was an ideal opportunity for Bombardier Transportation to remain close to the business and the technical solutions at MSC. They are very important to the practical reality of our enterprise wide design and manufacturing operation. Furthermore I enjoyed the presentations and discussions, which have given guidance for the next steps in our engineering world." Dr. Tjark Siefkes, senior director advanced technology development and centers of competence, Bombardier Transportation.

Key growth areas and a number of new technology partnerships, for example in the fields of nonlinear simulation, composite materials, and fatigue/durability, were featured in invited presentations and special interest discussion groups. Strategic partnerships with Intel, AlphaSTAR, and Ingenious, and significant recent EMEA engagements with customers such as Airbus and Valeo Engine Cooling and were announced to invited members of the Press and industry analysts, whilst the accompanying technology exhibition, with solution partners including IBM, Microsoft, Intel, SGI, HP, AMD and Dassault Systemes, provided a lively central networking environment.

"MSC's VPD Conference in Munich was a very informative and well managed event. It reinforced their new direction as a broad-based VPD solution provider, and the commitment of their new executive team to clarify this direction to the industry," Ed Miller, President, CIMdata, a leading international consulting and research firm.

Full details and all presentations from the EMEA Conference can be found at <http://www.mscsoftware.com/emea/vpd2005>. The MSC.Software VPD Conference series will continue with further events in Russia, South Africa, across Asia-Pacific, and in the United States.

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### **SmartOrg is a Sponsor and Presenter at ProjectWorld Nov 15-18, 2005**

November 2005

SmartOrg is pleased to be a sponsor and presenter at ProjectWorld & The World Congress for Business Analysts, 15-18 November at the Walt Disney World Contemporary Resort in Orlando. We invite you to join us and learn how bringing project management and business analyst teams together can significantly improve project success.

On Tuesday, 15 November, David Matheson, Ph.D, SmartOrg President & CEO, will discuss "Integrating Business Management, Business Analysis and Project Management to Drive Growth and Profitability." You will learn how forward-looking companies engage R&D and NPD project leaders and their teams in the business decision-making process. We will also introduce a power tool for business analysis that automatically produces Excel spreadsheets from graphic business models in seconds.

For more information, visit <http://www.projectworld.com> and <http://www.bawusa.com> for agenda updates and news. As a participant of the event, we would like to extend a special discount to you. When registering, please reference the following priority code to receive a 25% discount on standard event registration fees: SPONM171920SGEM.

Additional information is available online:

<http://www.corporatenews.net/cgi-bin/pc200v3.php?pccl=23484>.

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### **SME Conference: Driving Product and Process Innovation with Product Lifecycle Management (PLM)**

**When:** December 8, 2005 • 7:30 a.m.-5:00 p.m.

**Where:** Automation Alley • 2675 Bellingham • Troy, Michigan

## CIMdata PLM Industry Summary

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**Details:** This event will feature case studies from the world's leading new product development experts and manufacturers, including The Boeing Company, General Motors Corporation, Goodyear Tire & Rubber Co., Harbour Consulting, Hewlett Packard, Northrop Grumman, NASA, PricewaterhouseCoopers, and the U.S. Department of Defense. Speakers will share their firsthand insights and strategies for integrating PLM into their enterprises while breeding a culture of innovation within their organizations.

Would you like to: Learn how PLM principles practiced by the aerospace, automotive, consumer goods, defense, electronics, and heavy equipment industries can be applied to your company? Discover how to harness the power of PLM? Learn how to best integrate people, ideas, and processes across your enterprise? Be among industry leaders who have successfully implemented PLM strategies throughout their enterprises? If so, then this event is for you.

**Registration:**

To register, sponsor, or learn more about this event, visit [www.smeorg/plm](http://www.smeorg/plm)

Cost is \$295 for SME members and \$395 for non-members.

The Society of Manufacturing Engineers has endorsed this event for professional recertification credit(s) within the SME Certification program. For more information, please contact Customer Service at (800) 733-4763.

Sponsored by:



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### ***Visiprise to Hold Webinar With SAP Addressing Plant Floor and Business Interoperability***

9 November 2005

Visiprise, Inc. will hold a free webinar titled Plant Floor to Business Interoperability with SAP and a joint customer to address manufacturing interoperability standards.

The online event, to be held Nov. 10, will bring to light the steps an aerospace and defense customer has taken in its integration process with solutions from SAP and Visiprise. With the use of Visiprise Manufacturing 4.0 and the mySAP™ ERP solution, this customer has more than doubled production in less than six months. Representatives from all three companies will outline the processes that were involved in this overwhelming success. Panelists will discuss:

- How business process interoperability (BPI) provides unparalleled visibility

- How BPI complements SAP's strategy for adaptive manufacturing and how BPI is enabled by the SAP® Manufacturing solution
- How Visiprise Manufacturing complements mySAP ERP and the SAP xApp™ Manufacturing Integration and Intelligence (SAP xMII) packaged composite application in enabling plant-to-business interoperability on the plant floor
- How SAP Manufacturing and SAP xMII help integrate disparate technologies in less time, and with less custom integration
- How deploying all manufacturing support systems on a common environment reduces total cost of ownership significantly

“The actionable content to be shared during this webinar will help manufactures truly understand the powerful benefits of enterprise business interoperability,” said Brian Keeton, chief technology officer for Visiprise and panelist for the event. “Visiprise, along with SAP realizes the importance of sharing these experiences, both positive and negative, so other manufacturers can benefit from our collective experience and learning.”

Joining Keeton on the panel will be Eddie Whitfield, director of solutions marketing for SAP Labs, LLC, and a joint customer speaker. For more information and to register for the free webinar, visit <http://www.visiprise.com/visiprise/news-events.htm> or call 1-877-293-4938.

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## Financial News

### ***Aspen Technology Announces Financial Results for First-Quarter 2006***

8 November 2005

Aspen Technology, Inc. announced its financial results for its fiscal 2006 first quarter, ended September 30, 2005.

For the quarter ended September 30, 2005, AspenTech reported total revenue of \$60.1 million. Within total revenue, software license revenue was \$24.4 million and services revenue was \$35.7 million.

For the quarter ended September 30, 2005, AspenTech's loss from operations and net loss applicable to common shareholders, determined in accordance with generally accepted accounting principles (GAAP), was (\$4.0) million and (\$8.9) million, respectively. This compares to a GAAP loss from operations of (\$30.7) million and net loss applicable to common shareholders of (\$33.6) million in the same period last year. GAAP loss per share applicable to common shareholders was (\$0.21) for the quarter ended September 30, 2005, compared with a loss of (\$0.80) in the same period last year.

## CIMdata PLM Industry Summary

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For the quarter ended September 30, 2005, pro forma income from operations and net income, which exclude items covered in the attached non-GAAP reconciliation table, were \$2.6 million and \$1.5 million, respectively. This represented an improvement when compared with pro forma losses of (\$4.3) million and (\$3.7) million in the same period last year, respectively.

Pro forma earnings per share were \$0.02 for the quarter ended September 30, 2005, compared to a pro forma loss per share of (\$0.04) in the prior year period.

A reconciliation of GAAP to pro forma results has been provided in the financial statement tables included in the press release. An explanation of these measures is also included below under the heading "Non-GAAP Financial Measures."

Mark Fusco, President and CEO of AspenTech, stated "We were pleased that our efforts to improve the operational efficiency of the Company enabled us to deliver profitability, on a pro-forma basis. In the past three quarters, we have improved our services margins, eliminated our convertible debt, and created an infrastructure that we believe can deliver improved performance over the long-term."

Fusco added, "Our total revenue was flat compared to the prior year, excluding the operator training services business we divested as part of the FTC settlement. With our infrastructure priorities addressed, management's focus is squarely on restoring top line growth during FY06 and beyond."

### Other Quarterly Highlights:

- Services gross margins increased by 9% sequentially to 52%, the highest quarterly services margin since the Company went public in Fiscal 1995. This was the result of improved services revenue and utilization, combined with a lower cost base.
- Pro forma total costs and expenses came in at \$57.4 million in the quarter, a reduction of 19% on a sequential basis and 15% on a year-over-year basis.
- The energy industry represented the highest percentage of the Company's revenue, while the chemicals industry also made a solid contribution, delivering seven of the top ten deals closed during the quarter.

### *Conference Call and Webcast*

AspenTech will host a conference call and webcast November 8, 2005, at 4:45 pm (EST) to discuss the Company's financial results, business outlook, and related corporate and financial matters. A replay of the call will be archived on <http://www.aspentech.com> and is accessible by clicking on the "webcast" link under the "Investor Relations" and will also be available via telephone at: 800-642-1687, confirmation code 1991434 for four days, beginning at 8:00 pm EST on November 8, 2005.

Detailed financials are available: [http://aspentech.com/publication\\_files/pr-11-08-2005.pdf](http://aspentech.com/publication_files/pr-11-08-2005.pdf).

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### **Avatech Solutions Announces Profitable First Quarter**

10 November 2005

[Avatech Solutions, Inc.](#) announced earnings for its first quarter ended September 30, 2005, reporting its fourth consecutive quarter of profitability. The Company's earnings for the quarter were \$205,000, or \$0.02 per share, compared with a loss of (\$813,000), or (\$0.09) per share for the same period in 2004. Total revenues for the quarter were approximately \$9.2 million, a 37% increase over revenues for the first quarter of 2004, and net income increased more than \$1 million from the same period last year.

"On the heels of three consecutive profitable quarters and a profitable year-end, these first quarter results are further proof that our business strategy is generating bottom line results," said Avatech CEO Scotty Walsh.

"Historically, the first quarter of our fiscal year has been our weakest period in terms of overall revenues and earnings so we're off to a great start this year and we continue to enhance our position as a leading design and engineering systems integrator. Comparing the first quarter of this year to the same period in fiscal 2004 shows dramatic improvements in every area of our business in spite of the required expensing of employee stock options. Our revenues grew significantly, our gross margin percentage increased by almost five percentage points and our selling, general, and administrative expenses were up only slightly," continued Walsh. "I am particularly pleased with the huge growth in services revenues in this fast-growing piece of our business. These results should serve as a springboard for what we believe will be a very good year for the Company, our employees, and our shareholders."

The Company attributes its strong financial results to a dramatic growth in revenues coupled with a focus on controlling operating expenses. Avatech receives sales incentives from its principal supplier, Autodesk, based upon the achievement of Autodesk-defined sales targets. The Company indicated that as a result of its strong revenues in the first quarter, they realized significantly larger incentives this quarter when compared to the same period in 2004. Avatech officials also indicated that the Company achieved better utilization of services personnel, resulting in higher services revenues with a smaller increase in costs. Cost containment efforts resulted in increases in the Company's selling, general, and administrative expenses of less than 14% despite the addition of sales and management personnel.

"The market for our products and our consulting and implementation services remains strong and we expect to continue that trend for the rest of the fiscal year," commented Walsh. "Our much improved financial condition, as well as the recent increases in our stock's value, allows us to invest in the growth areas of our business and to continue our strategy of expansion through selected mergers and acquisitions." Avatech's stock closed on Wednesday at \$1.22 per share, more than double the \$0.50 closing price at its year end, June 30, 2005.

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## ***AVEVA Interim Results For The Six Months Ended 30 September 2005***

8 November 2005

AVEVA Group plc announces its unaudited results for the six months ended 30 September 2005.

### ***HIGHLIGHTS***

- Strong results with significant increases in revenue, profit from operations, earnings per share and cash.
- Adjusted profit from operations\* increased to £5.5m (2004: £2.7m).
- Adjusted earnings per share\*\* increased by 186% to 17.26p (2004: 6.04p). Basic earnings per share were 12.58p (2004: 8.39p).
- An increased interim dividend of 2.2p will be paid (2004: 1.8p), reflecting the Board's continued confidence.
- Revenue up 21% to £29.0m (2004: £24.1m).
- Recurring revenues up 26% to £19.1m (2004: £15.1m).
- Excellent cash generation with net cash at 30 September at £17.8m (2004: £9.3m).

All figures are presented under IFRS with restated comparatives.

\*Profit from operations after adding back amortization of intangibles, restructuring costs and past service credit on UK defined benefit pension scheme.

\*\*Earnings per share after adding back amortization of intangibles, restructuring costs and past service credit on UK defined benefit pension scheme.

Commenting on the outlook, Chairman Richard King said:

"Our strong blue chip customer list, leading technologies and exposure to dynamic, fast growing regions and markets, give the Board confidence that we are well placed to build on the momentum that has been established in the business over the last year.

We enter the second half with a healthy pipeline of new business opportunities and are therefore confident that we are in a strong position to achieve our full year objectives."

## *CHAIRMAN'S STATEMENT*

### *Overview*

AVEVA has performed extremely well in the first six months of the year, achieving record growth in revenue, profit and cash. We have outperformed across all regions and markets where we operate. In addition, we are beginning to see acceleration in orders from some of the world's emerging economies, particularly Russia and South America.

These excellent half-year results demonstrate our ability to build on our dominant positions in high growth markets and develop our leading technologies to meet the evolving needs of our customers. Once again, we have worked hard to achieve a better balance between first and second half revenues and therefore expect full year results to be less weighted to the second half than in previous years. We have established a strong momentum across the business and enter the second half with an encouraging order book.

### *Financials and Dividend*

All figures are presented under International Financial Reporting Standards (IFRS), with restated comparatives. For details of main adjustments please refer to the announcement made on 22 September that can be found at <http://www.aveva.com>.

AVEVA has once again delivered impressive sales and profit growth against the same period last year, with revenue up 21% to £29.0 million. Recurring revenues increased by 26% to £19.1 million (2004: £15.1 million).

Profit from operations before amortization, restructuring costs and past service credit on the UK pension scheme increased to £5.5 million, generating adjusted earnings per share of 17.26p—an increase of 186% on 2004.

Costs have risen in line with expectations and we anticipate that costs will increase at a proportionate rate in the second half to support the Group's expansion and investment in VNET.

AVEVA continues to be highly cash generative, with net cash at 30 September 2005 £17.8 million (2004: £9.3 million). This has been achieved despite investing over £6.4 million in research and development in the period, and expanding further a global sales infrastructure.

### *Dividend*

Given our strong first half performance and confidence in the prospects of the business, the Board is declaring that the interim dividend per share be increased by 22% to 2.2p (2004: 1.8p). Payment will be made on 27 January 2006 to all shareholders on the register on 6 January 2006.

### *Operating Review*

## CIMdata PLM Industry Summary

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This has been another period of significant growth, both geographically and in our main target markets of oil and gas, power and marine.

### *Geographic*

Our successful penetration of Asia Pacific markets continues to be a key factor in the Group's performance. Revenues from the region were up 35% on the prior period and now represent 38% of Group revenues. This was largely a result of ongoing exposure to high growth markets such as Korea, particularly in the marine sector, with increased opportunities for new business in Japan and Australia.

In terms of EMEA, sales have been good. Growth in Europe continues to be driven by increasing demand in the power industry and the success of European based suppliers of power generation plants. In addition, the demand for large scale Floating, Production and Storage Offshore (FPSO) vessels has driven further growth from our established European offshore contractor base. Revenues increased by 11% on the same period last year and now represent 45% of Group revenues. A particular highlight is that our marketing efforts in Russia over the last two years are now starting to bear fruit, especially in the oil and gas and marine sectors. This performance has been achieved for a number of reasons including a better understanding of business practices in the region and resurgence in Russia's economy. In order to better exploit these emerging opportunities, we have opened an office in Moscow in addition to the Marine sales office we have in St Petersburg.

More encouragingly, for the first time in over two years, we have seen a strong recovery in our Americas business, with revenues up 19% on the same period last year. Whilst this remains our smallest market, representing 17% of Group revenues, it is a strategically important region and one where we see good long-term growth prospects. We have continued to invest in the US and our Houston headquarters has been very busy helping our many customers, either based in or with facilities around the southern states, deal with the problems brought about by the terrible weather conditions in the region.

### *Markets*

We have continued to strengthen our position in the three main markets of oil and gas, power and marine. We have seen a good inflow of new business and renewal of rental contracts.

In terms of the power market, we are realizing good opportunities in China in both nuclear and fossil fuelled power stations as the country seeks to address its massive need for extra power capacity. The foundations we have built locally means that AVEVA suite of products has already become the system of choice.

The European power industry is also now seeing significant growth, in part due to demand from Asia, but also the resurgence of demand for nuclear power in Europe. This is translating into good repeat business for AVEVA, as well as a healthy pipeline of future opportunities. The UK power industry, along with many other countries, is also in a transitional period as governments look to increase power capacity and the immediate growth opportunities look encouraging.

We have continued to see a steady increase in confidence for long-term oil and gas projects around the world. The market opportunity is substantial, with forty-four £1 billion offshore developments, thirteen £1.5 billion refineries, twenty-seven £1 billion LNG plants and eleven £3.5 billion petrochemical plants due to be built over the next ten years. We have a good track record on global projects with customers like BP in Angola and Shell in Nanhai, China. Our confidence in our ability to leverage our expertise to increase the work we do with existing customers and indeed attract new customers was borne out in July 2005, when Petrobras, the national oil company of Brazil, migrated its legacy data from four of its refineries to AVEVA's VANTAGE Plant Design 3D solution. Petrobras is using AVEVA software in eight of its refineries and is expected to integrate the product across all fourteen in time.

The marine business has performed in line with expectations during the first half, achieving steady growth against strong prior year comparatives.

The delivery of our first combined process and marine product "VANTAGE Marine 11.6", which we have been developing through our strategic partnership with Hyundai Heavy Industries, the world's leading shipbuilding company, has been well received by customers. We believe it will result in an increase in recurring revenues with existing customers and provide a major driver for new customers to commit to VANTAGE Marine.

Whilst we have secured some significant new contracts in our non-core markets of paper and pulp, mining, food processing, chemical and pharmaceutical, these markets do not represent a material proportion of Group revenue.

### *Constant Innovation*

As a business we never stand still, constantly striving to improve our offering to meet the changing needs of our customers. During the first half of the year we invested £6.4 million in research and development, and completed planned improvements to our core VANTAGE offering with the launch of VANTAGE Project Resource Management (VPRM) 9.6.

During the period we continued to invest in developing a suitable infrastructure to support the wider roll out of VANTAGE Enterprise Net (VNET), our unique internet based technology that enables common applications to be integrated to create an internet-based information portal. Since the end of the last financial year the dedicated VNET team has more than doubled, including strengthening our presence in America and Central Europe. Whilst it is still early days, we believe VNET has enormous potential within the engineering community, transforming AVEVA's position and relationship with large global blue chip EPCs and Owner Operators.

### *Management and Board*

Whilst there have been no changes at the plc Board level, within the operating executive team we have several new appointments. Lennart Olsson, formerly the President of Tribon Solutions, now heads up Global Sales and Customer Service and Derek Middlemas is now responsible for Business Development and Strategic Planning, whilst Matt McKinley, Executive Vice President of our American operation, is making a great improvement in the region.

## *Outlook*

Our strong blue chip customer list, leading technologies and exposure to dynamic, fast growing regions and markets, give the Board confidence that we are well placed to build on the momentum that has been established in the business over the last year.

We enter the second half with a healthy pipeline of new business opportunities and are therefore confident that we are in a strong position to achieve our full year objectives.

Richard King

Chairman

8 November 2005

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## ***MatrixOne Reports Financial Results for Third and Fourth Quarter of Fiscal 2005***

8 November 2005

MatrixOne, Inc. announced results for its third quarter ended April 2, 2005 as well as its fourth quarter and fiscal year ended July 2, 2005. The Company also announced that the financial review conducted under the direction of the Audit Committee of the Company's Board of Directors has been completed. Further, the Company has completed the related restatements of its financial statements from fiscal 1999 through the second quarter of fiscal 2005 and filed with the Securities and Exchange Commission its Quarterly Report on Form 10-Q for the quarter ended April 2, 2005 and its Annual Report on Form 10-K for the fiscal year ended July 2, 2005.

### *Financial Results for Third and Fourth Quarter of Fiscal 2005*

For the third quarter ended April 2, 2005, total revenues were \$27.0 million, compared to \$27.7 million in the same period last year. For the third quarter, net loss was \$6.5 million, or \$0.13 per share, compared to a net loss of \$2.4 million, or \$0.05 per share, in the same period last year. For the third quarter ended April 2, 2005, adjusted net loss(1), which excludes amortization of intangible assets of \$0.3 million, was \$6.2 million, or \$0.12 per share. There were no adjustments to net loss for the third quarter ended April 3, 2004.

For the fourth quarter ended July 2, 2005, total revenues were \$32.5 million, compared to \$29.6 million in the same period last year. For the fourth quarter, net loss was \$11.7 million, or \$0.23 per share, compared to net income of \$0.9 million, or \$0.02 per share, in the same period last year. Net loss for the fourth quarter ended July 2, 2005 includes expenses related to the financial review and restatement of \$4.2 million, or \$0.08 per share. For the fourth quarter ended July 2, 2005, adjusted net loss(1), which excludes amortization of intangible assets of \$0.3 million, was \$11.4 million, or \$0.22 per share,

## CIMdata PLM Industry Summary

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compared to adjusted net income(1), which excludes restructuring gains of \$0.1 million, of \$0.8 million, or \$0.02 per share, in the same period last year.

For the fiscal year ended July 2, 2005, total revenues were \$124.1 million, compared to \$109.6 million in the prior fiscal year. For the fiscal year ended July 2, 2005, net loss was \$20.3 million, or \$0.40 per share, compared to a net loss of \$12.4 million, or \$0.26 per share, in the prior fiscal year. Net loss for the fiscal year ended July 2, 2005 includes expenses related to the financial review and restatement of \$4.2 million, or \$0.08 per share. For the fiscal year ended July 2, 2005, adjusted net loss(1), which excludes amortization of intangible assets of \$1.1 million, was \$19.2 million, or \$0.37 per share. For the fiscal year ended July 3, 2004, adjusted net loss(1), which excludes stock-based compensation, restructuring charges and asset impairment and disposal charges of \$4.0 million, was \$8.4 million, or \$0.17 per share.

### *Financial Review and Restatement Completed*

The Company also announced today that the financial review conducted under the direction of the Audit Committee of the Company's Board of Directors has been completed. As previously announced, management and the Audit Committee concluded that errors in revenue recognition at the Company's Japanese subsidiary required the Company to restate its previously reported financial results. The restatement, which affected previously reported financial results from fiscal 1999 through the second quarter of fiscal 2005, has also been completed. The revenue adjustments made in the restatement related to errors in revenue recognition principally at the Company's Japanese subsidiary and resulted in a change in the timing of the recognition of revenue previously paid for and recognized. The Company also made adjustments due to: (a) the timing of revenue recognition for certain transactions in Europe; (b) the timing of revenue recognized related to several customer arrangements that included certain commitments to provide future software functionality; (c) the recognition as research and development expense certain third-party development and licensing arrangements previously capitalized and recognized as cost of software license revenues; (d) the timing of the recognition of certain expenses associated with the revenue being adjusted; and (e) adjustments to certain other asset and liability accounts.

Total revenues for the six month period ended January 1, 2005, as restated, were \$64.7 million compared to \$64.7 million as previously reported. Net loss for the six month period ended January 1, 2005, as restated, was \$2.0 million compared to \$2.3 million as previously reported. Total revenues, as restated, for fiscal 2004 were \$109.6 million compared to \$109.1 million as previously reported. Net loss, as restated, for fiscal 2004 was \$12.4 million compared to \$16.2 million as previously reported. Expenses related to the financial review and restatement totaled approximately \$5.0 million. The Company recognized \$4.2 million of expenses related to the financial review and restatement in the fourth quarter of fiscal 2005 and expects to recognize approximately \$0.8 million of expenses related to the financial review and restatement in the first quarter of fiscal 2006.

### *Company Files Form 10-Q and Form 10-K*

On November 8, 2005, the Company filed with the Securities and Exchange Commission its Quarterly Report on Form 10-Q for the quarter ended April 2, 2005 and its Annual Report on Form 10-K for the fiscal year ended July 2, 2005. The Company believes that it is now in compliance with the conditions set forth by the Nasdaq Listing Qualifications Panel when it granted the Company an additional extension

for continued listing on The Nasdaq National Market until November 8, 2005. The fifth character "E" will remain appended to the Company's symbol pending a final determination that the Company is fully compliant with Nasdaq's filing requirements. The Company anticipates filing, as soon as practicable, an amended Quarterly Report on Form 10-Q for the second quarter of fiscal 2005 for the purpose of restating its condensed consolidated financial statements for the second quarter of fiscal 2005. The Company will not be filing an amended Quarterly Report on Form 10-Q for the first quarter of fiscal 2005 as previously stated.

### *Company to Host Live Conference Call and Webcast on November 9, 2005*

The Company's management team will host a live conference call and webcast at 5:30 p.m. eastern time on Wednesday, November 9, 2005 to discuss the Company's financial results for the third quarter ended April 2, 2005 as well as the fourth quarter and fiscal year ended July 2, 2005. The conference call may be accessed in the United States by dialing (877) 777-1972 and using passcode "MONE." The conference call may be accessed outside of the United States by dialing (612) 332-0636 and using passcode "MONE." The webcast will be accessible from the Company's website at <http://www.matrixone.com/investor>.

### Key Operational Highlights

The following milestones were completed or announced during the third and fourth quarters of fiscal 2005:

- MatrixOne recognized revenue from a number of the world's most innovative companies, including ARM, a provider of power-efficient microprocessors and related technology and software; Agilent Technologies' Semiconductor Products Group, a supplier of advanced semiconductor components to the mobile phone, enterprise storage and networking, and broad optoelectronic markets; Barilla, the world leader in the pasta market and the largest producer of bakery products in Italy; Cummins Inc., a provider of power solutions; Fujitsu Network Communications, a provider of customer-focused IT and carrier-class telecommunications solutions for the service provider and cable television market; Legrand, a provider of products and systems for electrical installations and information networks; and Lockheed Martin Corporation, an advanced technology company.
- MatrixOne announced several new solutions including the release of Matrix 10.6, which includes advanced capabilities for synchronous product development across electrical, semiconductor, mechanical and software design, enabling companies to compress development cycles, improve information reuse and reduce the possibility of product rework, ultimately enabling companies to produce better products at a lower cost. Matrix 10.6 also featured a new business process application called MatrixOne Designer Central™, a comprehensive workgroup design application that allows product designers and their extended supply chains to manage the design process and collaborate from one central application, regardless of the design tools they are using.
- MatrixOne announced the availability of three new MatrixOne Accelerators—the MatrixOne Accelerator for Apparel Design and Development™, the MatrixOne Semiconductor Accelerator

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for Design to Manufacturing™, and the MatrixOne Semiconductor Accelerator for Enterprise Project Management™. Each of the MatrixOne Accelerators enable companies to efficiently meet the unique product development challenges of specific industries by bundling MatrixOne Business Process Applications with specific industry language and terminology, data models and schema, pre-defined work processes and reports, and role-based user interfaces to speed deployment and ease user adoption.

- MatrixOne and Telelogic, the leading global provider of solutions for advanced systems and software development, announced the availability of a Customer Needs Management solution that integrates Telelogic DOORS, the leading solution for requirements management, with MatrixOne Product Central™, the Company's solution for managing a portfolio of products, features and configurations throughout the product lifecycle. Together, MatrixOne and Telelogic are delivering a solution that closes the gap between requirements definition and design and provides an enterprise-wide view of product requirements to all product stakeholders including sales and marketing; product management; systems and software engineers; electrical, electronic and mechanical engineers; manufacturing; customers; and suppliers.
  - MatrixOne hosted the MatrixOne Global Customer Conference 2005 (GCC 2005) which was attended by a record number of customers, prospects and partners from around the world and across every major vertical market. GCC 2005, themed "Accelerating Return on Innovation," provided attendees with a unique opportunity to learn how some of the world's leading-edge companies are leveraging PLM strategies and solutions from MatrixOne to transform their businesses and achieve measurable results. Some of the companies presenting at GCC 2005 included AMR Research, Agilent Technologies, Boeing Australia Ltd., Johnson & Johnson Consumer Products Company, LSI Logic, Keppel Corporation, New Balance, Nortel, Possis Medical, Procter & Gamble, and Sony Ericsson.
  - MatrixOne was highlighted as a PLM market leader in two recent industry research reports by Michigan-based CIMdata and Massachusetts-based AMR Research. MatrixOne was noted as a mindshare and market presence leader in CIMdata's annual PLM Market Analysis Report which provides a perspective on PLM across a variety of industry and geographic sectors, identifies market trends, reviews investments in PLM-related software and services during 2004 and forecasts PLM investments for 2005 through 2009. MatrixOne was awarded high marks in AMR Research's recent report entitled "The CIO's Guide to the PERFECT Product Launch: Translating Innovation to Business Benefit," which ranked the capabilities of 18 PLM vendors. MatrixOne received high rankings in customer needs management, product data management, portfolio management and direct material sourcing.
- (1) The Company uses the financial measure adjusted net income (loss) to supplement its consolidated financial statements, which are presented in accordance with accounting principles generally accepted in the United States ("GAAP"). The presentation of adjusted net income (loss) is not meant to be a substitute for net income (loss) presented in accordance with GAAP but rather should be evaluated in conjunction with net income (loss). The Company's management believes that the presentation of adjusted net income (loss) provides useful information to investors because this financial measure excludes amortization of purchased technology and intangible assets, which are fixed acquisition-related charges, restructuring charges, and asset impairment and disposal charges, which are charges relating to an unusual event, and stock-based

compensation, which is a non-cash charge that ended during the three month period ended January 3, 2004. For the three and nine month periods ended April 2, 2005, adjusted net income (loss) excludes amortization of purchased technology and intangible assets. For the three month period ended April 3, 2004, there were no adjustments to net loss. For the nine month period ended April 3, 2004, adjusted net income (loss) excludes restructuring charges, asset impairment and disposal charges and stock-based compensation. For the three and twelve month periods ended July 2, 2005, adjusted net income (loss) excludes amortization of purchased technology and intangible assets. For the three month period ended July 3, 2004, adjusted net income (loss) excludes restructuring gains. For the twelve month period ended July 3, 2004, adjusted net income (loss) excludes restructuring charges, asset impairment and disposal charges and stock-based compensation. Management does not consider amortization of purchased technology and intangible assets, restructuring charges, asset impairment and disposal charges and stock-based compensation to be part of the Company's on-going operating activities or meaningful in evaluating the Company's past financial performance or future prospects. In addition, adjusted net income (loss) is a primary financial indicator that the Company's management uses to evaluate the Company's financial results and forecast anticipated financial results for future periods. Amortization of purchased technology and intangible assets relates to the amortization of identified intangible assets, such as purchased technology, customer relationships and trademarks and trade names, purchased through an acquisition. Restructuring charges and asset impairment and disposal charges are material costs that were incurred relating to an unusual event to align the Company's operations and cost structure with market conditions. Stock-based compensation represents the difference between the stock option exercise price and the deemed fair value of the Company's common stock on the date of grant and relates only to the grant of certain stock options to employees during fiscal 2000 and 1999, which do not require cash settlement. The Company's definition of adjusted net income (loss) may differ from similar measures used by other companies and may differ from period to period.

Financial statements are viewable at [http://media.corporate-ir.net/media\\_files/nsd/mone/pdfs/11\\_08\\_05.pdf](http://media.corporate-ir.net/media_files/nsd/mone/pdfs/11_08_05.pdf).

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### ***Serena Software to Report Third Quarter Fiscal 2006 Results on November 17, 2005***

7 November 2005

Serena Software, Inc. will report the results for its third quarter fiscal 2006 results on Thursday, November 17, 2005, after the close of the market. A webcast of the conference call will be available on the Company's Web site at <http://www.serena.com/Q306results> under Investor Relations. The Internet broadcast will be available live beginning at 2:00 p.m. PST, and a replay will be available following completion of the live call for 14 days thereafter. In addition, investors will have the opportunity to access a telephone replay of the call through December 1, 2005, by dialing (800) 642-1687 or (706) 645-9291, Conference ID# 2235564.

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### ***Synopsys Announces Earnings Release Date and Conference Call Information for the Fourth Quarter and Fiscal Year 2005***

8 November 2005

Synopsys, Inc. announced it would report results for its fourth quarter and fiscal year 2005 on Wednesday, Nov. 30, 2005 after the market closes.

A conference call to review the results will begin at 2 p.m. PST (5 p.m. EST) and will be hosted by Aart de Geus, chairman and chief executive officer, and Rex Jackson, acting chief financial officer, senior vice president and general counsel.

Financial and other statistical information to be discussed on this conference call will be available on the corporate website at <http://www.synopsys.com/corporate/invest/invest.html> immediately before the conference call. A live webcast of the conference call will also be available at the corporate web site at <http://www.synopsys.com/corporate/invest/invest.html>. Participants should access the live call at least 15 minutes prior to the call. A webcast replay of the conference call can be accessed from the corporate website at <http://www.synopsys.com/corporate/invest/invest.html>. The replay will be available beginning Wednesday, Nov. 30, 2005 at approximately 5:30 p.m. PST through to the time of the announcement of the company's first quarter earnings results in February. In addition, a dial-up replay of the conference call will be available beginning Wednesday, November 30, 2005 at 5:30 p.m. PST and ending on Dec. 14, 2005. The replay telephone number is USA (800) 475-6701, International (320) 365-3844, Access Code: 801529.

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### ***UGS to Host Third Quarter Earnings Webcast/Teleconference on Internet Monday, November 14, 2005***

10 November 2005

UGS Corp. announced it will host a webcast/teleconference on its third quarter earnings with securities analysts live on the Internet and on a conference call line at 10:30 a.m. Central time, Monday, Nov. 14, 2005. See below for access information.

Participants may listen to the call via web-streamed audio, which requires Windows Media Player or RealPlayer, or listen and view the event using phone and net conferencing.

#### **TO LISTEN VIA STREAMING WEB AUDIO:**

URL: <https://e-meetings.mci.com>

Conference Number: 3873703

Passcode: UGS

*Note: Pop-up blockers must be disabled.*

To join:

- Go to the URL listed above
- Select ***Join an Event*** from the ***Events*** tab
- Enter all requested registration information and follow instructions to proceed

### TO LISTEN VIA PHONE:

Domestic and International: +1-517-268-4880

Passcode: UGS

### TO VIEW THE ACCOMPANYING VISUAL PRESENTATION VIA NET CONFERENCE:

<https://e-meetings.mci.com/nc/join.php?i=PA3873703&p=UGS&t=c>

*Note: Participants who want to view the net conference are advised to visit*

<http://www.mymeetings.com/updates/net-systemcheck.php?ver=2003> any time prior to the event to ensure their systems are is properly configured)

### NET REPLAY:

URL: <https://e-meetings.mci.com/nc/join.php?i=PA3873703&p=UGS&t=r>

*Note: The replay will be available approximately 60 minutes after the call concludes and the link will be live until Dec. 14, 2005.*

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## Implementation Investments

### ***Alliance Semiconductor Selects Denali Verification IP for Design and Verification of Its Products***

9 November 2005

Denali Software's PureSpec™ verification intellectual property (IP) has been selected by Alliance Semiconductor Communications, Inc., for the design and verification of its products.

Alliance Semiconductor is a worldwide provider of high-value memory, mixed-signal and system solution products for the communications, computing, consumer and industrial markets. Its engineers are using PureSpec at the pre-silicon stage of verification to model and simulate interactions with other devices across industry standard interfaces. PureSpec enables Alliance Semiconductor to ensure correct and optimal design of its chip interfaces, ultimately increasing verification productivity and overall product quality.

"Alliance Semiconductor is noted for its broad portfolio of innovative solutions enabled by a leading-edge design and verification environment," says Vic Juneja, Denali's product marketing manager. "We are pleased that it selected PureSpec for its design and verification needs, and are committed to its continued success."

Adds Paritosh Kulkarni, director of ASIC Engineering for Alliance Semiconductor: "PureSpec is the most widely used and highly regarded verification solution, an important consideration for us because functional verification of our chip designs plays a crucial role in supporting our accelerated design schedule. Denali has a product well architected to support our directed and random testing. We are now leveraging that same product architecture to address the functional verification of industry standard interfaces in our chips."

PureSpec verification IP is a widely used product for verifying functionality, compliance and interoperability of standard interfaces at the pre-silicon stage of chip or IP core development. PureSpec verification IP includes a configurable bus functional model (BFM), protocol monitor, and complete assertion library for all components in the topology, including the host and one or multiple devices. Composite configurations by port and function are also supported.

PureSpec additionally provides a sophisticated data generation engine to help drive defined, pseudo-random bus traffic at all layers. Injected errors and error conditions are flagged and recovered according to specifications.

The highly integrated nature of PureSpec model behavior and its data generation engine enables a sophisticated context-sensitive data generation approach to test plan execution. This enables direct translation from test plan definition to implementation, accelerating the verification task and productivity. A cumulative coverage database capability ensures that the overall test plan sufficiently exercises the design.

PureSpec supports a number of standard interfaces, including: PCI Express, Advanced Switching Interconnect (ASI), AMBA, USB, Ethernet, Serial ATA, and CE-ATA.

PureSpec is available for evaluation at: <http://www.denali.com/purespec>.



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### ***Atmel Creates First Single-Chip DVD/CD SoC Using Cadence Encounter Test***

7 November 2005

Cadence Design Systems, Inc. announced that its new Cadence® Encounter® Test Architect technology has helped Atmel Corp. successfully tape out Atmel's first single-chip DVD/CD system-on-chip (SoC). With Encounter Test, Atmel's geographically distributed design team was able to fast track its project. This helped Atmel complete test insertion and automatic test pattern generation (ATPG) on time to achieve high-quality, first-pass manufacturing success.

Atmel's recently announced AT78C4050 is a SoC focused on driving down cost and complexity for next-generation, high-performance optical disc-drive designs. With this product, designers can, for the first time, use a single-chip controller that provides all analog and digital functions for red and blue laser DVD and CD from servo system to ATAPI interface. Its integrated partial response, maximum likelihood (PRML) read channel technology provides higher speed, higher density and improved performance over any currently available products.

"We used a globally distributed design team for this complex, first-in-class product," said Mehdi Bathaee, Atmel's Network Storage Business Unit general manager. "Inserting the test and generating patterns in time for tapeout was key to our project's success. With Encounter Test, and the Cadence team's support, we achieved our time-to-tapeout and exceeded test coverage objectives."

"Atmel's experience is an example of how Encounter Test Architect's unique compiler-based methodology inserts all required test structures with its automatic test infrastructure compilation and verification methodology—all from a single specification," said Sanjiv Taneja, vice president of R&D for Encounter Test at Cadence. "We are proud to have contributed to Atmel's significant achievement with this design."

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### ***Bergmeier Slashes Costs and Design Cycle 50% With Dynamic Modeling***

8 November 2005

CoCreate Software, Inc. announced that Bergmeier Maschinenbau has adopted OneSpace Designer Modeling as its 3D software of choice.

Bergmeier Maschinenbau GmbH based in Hiddenhausen, Germany, designs and produces specialized egg-handling machinery and plants for the food industry. Renowned eateries and retailers all over the world use foods prepared with Bergmeier machinery.

"In the past, we worked with 2D drawings, but many of our customers can't read 2D easily," said Gerd Bergmeier, owner and CEO of Bergmeier Maschinenbau. "So, we bought a popular parametric 3D CAD tool to better share our ideas with customers."

After starting a new project, Bergmeier discovered he needed all new hardware to handle the parametric system, and that the training he received failed to prepare him to use the software. He hired a designer experienced with the parametric system only to discover that changes couldn't be incorporated late in the design. The seasoned designer asked to stop the project until every imaginable change could be documented, then start again from scratch.

"Clearly, the popular CAD choice wasn't going to work for us," said Bergmeier. "It wasn't compatible with my complex products, nor did it offer the flexibility I need." Bergmeier swapped the parametric system for OneSpace Designer Modeling, supplied to him by Klietsch GmbH, a partner of CoCreate distributor, ACADIS in Wiesbaden.

"With the other software, I was unsuccessful after one week training; but within just three days, I was fully productive with Designer Modeling," said Bergmeier. "We were lucky. We were in the midst of a complex project, but with Designer Modeling, we finished on time. Product development cycles and costs dropped 50 percent."

Bergmeier cited considerable differences between dynamic modeling and history-based systems. With OneSpace Designer Modeling designers could:

- Make changes late in the design process.
- Load 3D data in 4 seconds compared to 4 minutes.
- Generate designs of much lower data volume—6 MB in Designer Modeling compared to 120 MB in the other system.
- Navigate large assemblies easily.
- Work without any system crashes. The parametric system went down 3-4 times daily.

"We are more than happy with Designer Modeling," said Bergmeier. "We can concentrate on how best to design a product instead of how best to do the job."

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### ***Deep Sea Diving World Record Set Using Breathing Regulator Designed With SolidWorks Software***

7 November 2005

Swedish diving equipment manufacturer Poseidon Diving Systems used SolidWorks® 3D mechanical design software to develop the breathing regulator that helped set the world record for the deepest individual dive at more than 300 meters (1,000 feet), SolidWorks announced.

On June 10 in the Red Sea, South African diver Nuno Gomes used the Poseidon Xstream breathing regulator to become the first person to reach 318.25 meters deep (1,044 feet), a record validated by Guinness World Records®. Designed entirely with SolidWorks software, the Xstream sets new benchmarks for low inhale and exhale resistance; durability against immense pressure; and protection against cold temperatures so it does not freeze at extreme depths. Poseidon standardized on SolidWorks software for all new product design, including the Xstream, to eliminate the high costs of outsourcing its design work to third-party contractors.

“You can’t be very competitive in this or any other industry without 3D CAD,” said Poseidon Product Development Manager Yaniv Bertele. “Of the systems we evaluated, SolidWorks was the easiest to use and had the broadest compatibility with third-party software in an affordable package. Its user interface is so intuitive that a high school student can easily figure it out, but it has the functionality to enable the design of a regulator that someone can depend upon 300 meters below the ocean’s surface.”

Bertele estimates that Poseidon saved between \$50,000 and \$100,000 and six months in product development using SolidWorks instead of relying on outside consultants to design the Xstream.

SolidWorks allowed Bertele and other Poseidon engineers to test new design regulator concepts quickly and efficiently to arrive at the best solutions to such challenges as the exponential increase in gas flow the diver requires to withstand the enormous pressure during descent. “SolidWorks creates a bridge between design and engineering so that we can quickly render a concept and do the appropriate engineering to see if it will work,” said Bertele. “Being able to do this in one application saves a lot of time and effort.”

Poseidon also uses COSMOSFloWorks™ fluid dynamics analysis software to analyze how products like the Xstream regulate the flow of gases at different depths. COSMOSXpress™ helped determine how they will stand up to varying pressures as high as 4,500 pounds per square inch. MoldflowXpress ensures that the many plastic molds the company designs for its products are accurate. The eDrawings™ e-mail-enabled design communication tool allows Poseidon to share design information with suppliers and customers. Bertele uses PhotoWorks™ photorealistic rendering tool to create lifelike images for marketing, sales, and customer design review.

“There can be no mistakes 1,000 feet under water,” said SolidWorks Vice President of Worldwide Marketing, Rainer Gawlick. “Nuno Gomes has earned a spot in the Guinness Book of Records because innovative dive equipment company Poseidon designed a regulator that made it possible. We are proud SolidWorks played such an important role.”

Poseidon relies on authorized SolidWorks reseller SolidEngineer AB for ongoing software training, implementation, and support.

Poseidon is a privately owned Swedish company formed in 1958 to build state-of-the-art diving equipment. Today, it enjoys a reputation for being a market leader in revolutionary and innovative design. In June 2002, Poseidon produced the Xstream regulator, the first and only regulator in the world to be certified to 200 meters. For the latest information and news, visit the company’s Web site (<http://www.poseidon.se>).

SolidEngineer AB delivers integrated CAD and PDM solutions featuring SolidWorks and SMARTEAM®. SolidEngineer is a key SolidWorks reseller in the Nordic region, with offices in six cities, including Stockholm, Karlstad, Göteborg, Sundsvall, Jönköping, and Helsingborg. For more information about SolidEngineer, please call +46 8-54473020 or visit the company's Web site (<http://www.solide.se>).

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### **Denel Aerospace Systems Selects PTC Windchill® Through Distributor productONE**

8 November 2005

PTC announced that Denel Aerospace Systems (DAS) has selected PTC Windchill solutions to improve its product development processes. productONE, the sub-Saharan Africa distributor of PTC Windchill and Pro/ENGINEER® solutions has executed this significant regional software and services transaction with a total value exceeding \$1 million USD. The sale attests to the strength and sophistication of PTC's channel partners in supporting the PTC Product Development System (PDS). DAS has selected PTC's product lifecycle management (PLM) solutions Windchill PDMLink™ and Windchill ProjectLink™ for data management and collaboration. The software was shipped in the second quarter of fiscal 2005, ended April 2, 2005.

DAS, a division of Denel, specializes in systems development for the Rooivalk combat helicopter, missile and guided weapons systems, unmanned aerial vehicles (UAVs) and ground-based air defense systems (GBADS). DAS began evaluating PLM solutions in response to increasing pressure to improve cycle times and to become more competitive in executing its pipeline of programs in the global military and aerospace markets.

PTC Pro/ENGINEER software has been used as DAS's core design software to develop a range of military-focused products, including missiles and unmanned air vehicles. The deployment of the Windchill solutions will complete DAS's product development system, providing advanced collaboration ability for its geographically dispersed teams and strengthening its capabilities to manage product information and product development processes throughout the program lifecycle.

"PTC Windchill will allow DAS to collaborate in real-time on all aspects of the product development process internally, as well as externally with worldwide partners and suppliers, while also improving our process efficiencies," said Malcolm Blunden, group manager engineering services at DAS. "We expect to improve our design speeds and time-to-market by as much as 30% within the next two years by having a full product development system. The ability to deliver our products better and faster will increase our competitive advantage."

"Adoption of Windchill was a logical step for DAS in meeting their evolving globalization needs," said Dayne Turbitt, managing director, productONE. "The integral capabilities of Windchill enable DAS to leverage their existing Pro/ENGINEER implementation to create an advanced product development system."

"PTC solutions are ideal for aerospace and defense manufacturers that have to integrate design capabilities with product collaboration and data management in a distributed environment. We are very excited that South Africa's largest aerospace and defense manufacturer has selected our solutions to help address these challenges," said Berry Gibson, director aerospace and defense marketing and strategy, PTC. "Denel is highly respected in their industry, and we are looking forward to working with them and productONE to form a world-class product development system."

productONE is the exclusive sub-Saharan Africa distributor of Nasdaq-listed PTC, the developers of the Pro/ENGINEER suite of software. productONE boasts two key resellers: Automated Reasoning (Gauteng and Western Cape) and CaddMan Coastal (KwaZulu Natal and Eastern Cape). Local clients include Denel, Bell Equipment, Jetmaster, Spoornet, Bozal, Nissan Motorsport, the University of Cape Town and Stellenbosch University.

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### ***Ford Motor Company Cuts Onboard Diagnostic Development Time and Reduces Cost With MATLAB and Simulink***

9 November 2005

The MathWorks announced that Ford Motor Company Limited UK has streamlined emissions diagnostics systems for European production cars using The MathWorks modeling and simulation software MATLAB® and Simulink®. The MathWorks tools and Model-Based Design enabled Ford engineers to reduce the need for access to prototype vehicles, shorten and combine analysis processes, and provide reusable models of engine control unit behavior, cutting development time and cost.

All new vehicles sold in Europe are fitted with European onboard diagnostics (EOBD) devices, which monitor engine emissions and compare them with predefined fault thresholds. These devices report faults using dashboard indicators or diagnostic codes relayed to service technicians. Developing the calibration for the diagnostics systems requires extensive access to prototype vehicles to measure their performance characteristics. Engineers analyze these characteristics and use the results to program the diagnostic system to recognize emissions errors while ignoring other unrelated fluctuations in engine performance.

"The ease of use and statistical analysis within the Model-Based Calibration Toolbox gives the user the opportunity to accurately evaluate many model inputs quickly," said Nick Wright, engineer at Ford. "Working with The MathWorks tools has made a big difference to the engineers working in EOBD calibration. The tools developed have made many of the standard calibration tasks quicker and easier for the engineer to complete with no compromise on the quality of the output."

The MathWorks tools enabled Ford engineers to streamline the process of EOBD calibration. Ford's previous calibration methods required precise measured data at all operating points to fill calibration maps. Using the Model-Based Calibration Toolbox and design of experiments (DOE) tools they developed test plans that take the most critical test points, substantially reducing testing requirements. They then used the statistical modeling capabilities of the toolbox to create accurate and robust multidimensional models of the system throughout the operating range.

Engineers generated and optimized calibration maps and populated calibration tables. Rather than evaluate and refine the calibration with physical testing, Ford imported the calibration and test data into a Simulink model and then simulated the model using input signals acquired while collecting the original test data. Engineers can optimize and re-evaluate calibrations on the desktop, comparing results from different simulations to see the effect of calibration changes.

Ford is currently extending the use of MathWorks tools to other aspects of engine calibration, including exhaust and cooling systems. As a result of the EOBD project, Ford now has reusable models of engine control-unit behavior, which can eliminate the need for new test data for some future developments.

“The MathWorks tools were created to make engineers’ jobs more efficient,” said Paul Barnard, marketing director for Control Design Automation, The MathWorks. “By using these tools and Model-Based Design, Ford engineers have been able to achieve their primary goal of streamlining a very time-consuming, costly process, while at the same time producing the same high-quality products they are known for.”

The MathWorks was founded in 1984 and employs more than 1,000 people worldwide, with headquarters in Natick, Massachusetts. For additional information, visit <http://www.mathworks.com>.

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### ***Hitachi Communication Technologies Chooses Cadence Incisive Enterprise Palladium II to Reduce Overall Verification Risks***

9 November 2005

[Cadence Design Systems, Inc.](#) announced that Hitachi Communication Technologies, Ltd., a worldwide leader of information and communication system-related products, has adopted the Cadence® Palladium® II for emulation and acceleration. The company chose Palladium II over competitive offerings because it directly addressed Hitachi Communication Technologies' specific needs. The Palladium II enables Hitachi's verification engineers to meet schedule demands while verifying their most complex designs. A key component of the Cadence Incisive® Enterprise family of verification solutions, the Palladium II system offers the capacity, flexibility, turnaround time, and performance levels needed to verify Hitachi Communication Technologies' chip sets for next-generation network products.

"We looked at several solutions on the market to address the exponential growth in our designs and the underlying verification needs," said Hideya Sato, CAD department manager in the Carrier Network Systems Division at Hitachi Communication Technologies. "Palladium II provides better run-time performance and much faster compile time compared to our previous FPGA-based emulation system. It also allows multiple software programmers and design and verification engineers to access the system simultaneously. It was simply the best solution on the market. We have seen much more than our return on investment."

The Palladium II accelerator/emulator supports full system verification by incorporating peripherals, embedded processors, multiple ASICs, embedded software, and real-world data. The Palladium II system delivers up to 10,000 times above the average simulation performance in emulation mode or when

regression testing with an embedded testbench. This level of performance with the ability to service up to 32 users at once was exactly the type of world-class solution Hitachi Communication Technologies required.

"We are honored to be so closely partnered with Hitachi Communication Technologies," said Moshe Gavrielov, executive vice president and general manager of the Cadence Verification Division. "Hitachi Communication Technologies is consistently innovating and introducing new products to the communication market that require tight scrutiny of the overall design process including verification. We are glad they have chosen Palladium II to help them address their overall product delivery goals."

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### **HIP Architects Wins Autodesk Green Building Leadership Award**

10 November 2005

Autodesk announced that HIP Architects, an architectural firm based in Edmonton, Alberta, Canada, has been awarded the first Autodesk Green Building Leadership Award for work in designing green buildings throughout western Canada. The Autodesk Green Building Leadership Award recognizes customers who have used Autodesk technology to create, manage and share green building designs that are innovative, energy efficient and incorporate the latest sustainable design techniques. To recognize the award winner, Autodesk will make a donation to a green building charity on behalf of HIP, and provide free passes to Autodesk University 2006.

"HIP Architects has demonstrated its industry leadership by adopting building information modeling (BIM) to more rapidly design green buildings," said Phil Bernstein, FAIA, vice president, Autodesk Building Solutions. "Autodesk is excited to recognize these achievements by presenting HIP with the first annual Autodesk Green Building Leadership Award."

HIP Architects standardized on Autodesk Revit Building for all projects throughout the firm in 2004, and to date has used the software to design several green buildings including the Hostelling International hostel in Jasper, Alberta, and the NEAT Environmental Education Center in Fort St. John, British Columbia. Revit Building mirrors the real world of architecture by letting architects and designers work on buildings and spaces holistically, rather than in terms of separate floor plans, sections and elevations. Using the 3D building model created in Revit Building has made it easy for HIP to present designs to clients in real time, which has helped build client confidence in each sustainable design solution created by the HIP team.

"We are deeply honored to be the first recipient of this award," said Allan Partridge, AAA, Principal, HIP Architects. "We applaud Autodesk for recognizing the importance of such leadership, and creating the right environment through Revit Building to enable, simplify and demystify sustainable design."

Autodesk offers a comprehensive portfolio of products for the building industry. Ranging from the most advanced technology for building information modeling (BIM) to the most widely adopted design and documentation solutions, Autodesk supports information and management needs throughout the building lifecycle. Building solutions products include Autodesk Revit Building, Autodesk Revit Structure, Autodesk Architectural Desktop, Autodesk Building Systems and Autodesk AutoCAD Revit Series.

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### **Honda deploys LMS Virtual.Lab Structures for Finite Element Pre- and Postprocessing**

10 November 2005

LMS International announced that Honda R&D Tochigi started the deployment of a multitude of seats of LMS Virtual.Lab software licenses to accelerate key design and simulation processes. The deployment is part of the automaker's overall goal of further increasing the efficiency of its vehicle development process. In relation to this strategic goal, Honda R&D Tochigi is currently migrating its design and simulation processes from CATIA V4 to CATIA V5. To facilitate this critical migration project, Honda intends to integrate numerous simulation processes and operations within LMS Virtual.Lab. This eliminates the need to spend time moving in and out of multiple software packages and streamlines the process of creating models, driving simulation runs and analyzing results.

An official of Honda R&D Tochigi commented, "Honda R&D works in close cooperation with LMS to integrate its CAE processes into LMS Virtual.Lab for linear and non-linear structural analysis of body, engine and transmission components and sub assemblies. With LMS Virtual.Lab Structures, many Honda engineers will carry out simulation operations in a single user environment: integrating closely with the CAD design, creating and adapting finite element models, preparing and driving simulation runs for NASTRAN, and post-processing engineering analysis results in a consistent graphical format."

By integrating the various simulation programs that otherwise would run separately and produce isolated results, LMS Virtual.Lab Structures eliminates the need to spend time reworking models, duplicating meshes, transferring files, translating data and visualizing results in separate application-specific formats. Numerous Honda engineers will use just one set of pre- and post-processing solutions, thus avoiding the complexity and long learning curves of working with many disconnected tools.

The integrated system based on LMS Virtual.Lab will be fully associative with the CATIA V5 based design process that Honda is currently implementing. The complete analysis is defined on the geometry, which will save significant time by largely automating tasks of creating and modifying meshes. By making finite element modeling virtually transparent to the user, the system will accelerate the process of evaluating designs, predicting overall product behavior and validating mechanical performance of components and sub assemblies. Using this approach, Honda R&D Tochigi expects time gains of up to 50% in creating complex vehicle models.

Beyond these productivity gains, Honda expects that the integration of simulation processes in the V5 environment will facilitate greater collaboration within vehicle development teams. Design and analysis groups will be able to easily exchange models and engineering results. Structural analysis will be tightly integrated with other engineering disciplines such as durability, ride and handling and NVH. Groups can readily share ideas and accurately evaluate design options for multiple performance criteria in a much shorter timeframe. Honda expects to leverage this improved collaboration throughout the development process and to further focus their engineering effort on developing innovative future vehicle designs that are an absolute necessity for success in the global automotive industry.

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### ***Ichikoh Industries Creates Product Design Innovation With PLM Solutions From IBM and Dassault Systèmes***

10 November 2005

IBM and Dassault Systèmes (DS) announced that Ichikoh Industries, a manufacturer of automotive lamps and mirrors that supplies many car-makers worldwide, has deployed their PLM solutions in an innovative way. Ichikoh has used the PLM solutions to build a design navigation system and to establish a new modeling method, resulting in standardized design work and reductions in design time.

With a growing demand for new product designs, requiring advanced functions and more complicated data, Ichikoh Industries reviewed its design process, and chose IBM's PLM solution integrating CATIA V5 knowledgware functions, developed by Dassault Systèmes, to establish a new and innovative modeling method. With CATIA V5, clients can effectively utilize design data throughout the production process—from first idea to final product—easily incorporating frequent design changes.

Ichikoh Industries has also built its own design navigation system that enables even inexperienced designers to utilize accumulated knowledge in their design work, while maintaining design quality and achieving greater operational efficiency. By implementing CATIA V5, the company aims to reduce design time by up to 50%, thus accelerating time-to-market. The auto industry's leading 3D design solution has also allowed Ichikoh to work efficiently with different car makers and collaborate on designs with other suppliers.

Ichikoh will also promote the standardization of designs and parts, and develop a team design environment to unify its data based on systems such as SMARTEAM, which is another key part of the portfolio of IBM PLM solutions developed by Dassault Systèmes.

"In the automotive industry, development time has been reduced and high design quality is now increasingly important," said Toshiaki Yoshida, Group Leader, Information System Department of Ichikoh Industries. "It has become necessary to improve design databases and ensure faster, faultless designs to win against our competition. Our goal is to achieve the industry's fastest headlamp design time through collaboration with IBM and DS."

"Working with automotive OEMs (original equipment manufacturers), suppliers like Ichikoh are becoming more of an integral part of the automotive value net. To win against the competition, they must respond with speed to customer requests while maintaining profitability through an optimal price-quality ratio," says Junichi Takeuchi, Director of PLM Solutions, IBM Asia Pacific. "Our PLM solutions can help them meet those challenges and start their journey to On-Demand."

"Ichikoh Industries adopted CATIA V5 in order to realize design process innovation," said Christian Nardin, Managing Director of Dassault Systèmes Asia. "Implementing PLM will become increasingly important to auto suppliers, allowing them to respond rapidly to automakers' demands, which become more exacting every year. By reducing development time, they can not only reduce time-to-market, but also improve quality, and devote time to exploring alternative options, innovation and value-added tasks, thus fully leveraging the value of PLM."

Automotive lamp and mirror manufacturer Ichikoh Industries gained the biggest share of the worldwide market as a result of entering into comprehensive business collaborative arrangements with the major European suppliers on an equal-partners basis. Proud of its large domestic market share (27% for automotive lamps and 34% for mirrors), Ichikoh is actively promoting business in the international market. Its R&D-oriented management policy leads the company to markets outside the automotive industry, and attractive new products are being created one after another, including a rearview camera system. To learn more, go to <http://www.ichikoh.com>.

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### **J. Ray McDermott Begins Using AVEVA**

7 November 2005

AVEVA has secured a contract to provide J. Ray McDermott, the international provider of solutions for offshore field development, with a solution that utilizes the very latest web-based technology to provide easy access to key engineering data.

Built around AVEVA's VANTAGE NET (VNET) architecture, the new systems will be utilized by J. Ray McDermott to support its work on projects in the Middle East. More than 300 personnel at the company's Dubai operation will benefit from the VNET-based solution.

For the first time, project engineers will have web-based access to the 3D design models, 2D design deliverables and all the associated engineering documents that are core to the successful execution of the project. Powerful search functionality in the system allows users to navigate linked documents, with key items clearly highlighted. In addition, AVEVA will also support the handover phase of the project by providing comprehensive tag-linked data.

The project was initiated after a requirement was identified within one of its recent Middle East contracts to improve internal access to the 3D design model and associated deliverables. Benefits of the installation will include:

- the satisfaction of long-term client requirements through the provision of a platform that complies with all data handover specifications;
- improvements in project information access because only a single platform is necessary for viewing and linking project data;
- reduction in errors through data consolidation during VNET import to identify inconsistencies; and
- improvements in project workflow resulting from a commenting and work-packaging platform.

"The tangible benefits of VNET have allowed our staff to react immediately to planned status changes, allowing them to plan their work earlier in the project lifecycle," said Kevin Brophy, Manager, Piping and Layout, J. Ray McDermott, Dubai. "VNET has also allowed for easier and faster collaboration across both client and other J. Ray intranet sites, thus fulfilling some of the demands inherent with fast track projects. We are already working with AVEVA to increase the number of licenses available on the system to satisfy user demands, as well as augmenting it for use on additional upcoming projects here in Jebel Ali through the addition of gateways to PDS and SmartPlant P&ID as well as additional InTools and PIMS information".

Richard Longdon, CEO of AVEVA, commented: "This project, which was completed in just three weeks, was an expansion of our existing and established relationship with JRM in Houston, and we are very happy to see proof yet again that AVEVA's customers are confident in our ability to deliver. Further, it highlights our continuing commitment to and success in the marine industry following our acquisition of Tribon last year."

VNET is a multilingual information platform that uses a versatile web portal system to integrate information from any source application. It reconciles against item tag numbers or other item identification, to present a coherent information model of the plant, ship or project, using models and templates that are accepted throughout the world. VNET presents information from its source, without needing the source application—therefore bringing reliable, hardworking information to everyone.

For further information, please contact [richard.beck@aveva.com](mailto:richard.beck@aveva.com) or [gary.patterson@aveva.com](mailto:gary.patterson@aveva.com).

J. Ray McDermott, S.A, a subsidiary of McDermott International Inc., is a provider of solutions for offshore field development worldwide. McDermott is a worldwide energy services company. McDermott's subsidiaries provide engineering, fabrication, installation, procurement, research, manufacturing, environmental systems, project management and facilities management services to a variety of customers in the energy industry, including the U.S. Department of Energy.

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### ***Kawasaki Micro Maximizes Delay Test Coverage with Latest Cadence Technology***

7 November 2005

Cadence Design Systems, Inc. announced that Kawasaki Microelectronics, Inc. (KME) has selected Cadence® Encounter® True-Time technology, the industry's first delay test ATPG that uses design timing to automatically generate faster-than-at-speed delay tests. Cadence also introduced two key enhancements to its delay test technology, True-Time for bridges and True-Time through RAMs.

Delay defects in nanometer-scale designs significantly slow interconnect timing transitions, which makes delay testing critically important. Traditional and existing at-speed delay testing solutions are limited in their ability to detect small delay defects, resulting in high test escapes, and system and field failures. Encounter True-Time delay test includes an on-board timing engine, which automatically generates faster-than-at-speed delay tests to detect small delay defects efficiently and deterministically, thereby minimizing test escapes.

"Effective transition fault ATPG testing is a key requirement to detect delay defects in nanometer designs—a problem that will only get worse at smaller process geometries," said Hiroyuki Nakamura, Manager, CAD Development Gr. 1, Kawasaki Microelectronics, Inc. "After extensive evaluation, we have chosen Encounter True-Time delay test for our flow, based on its ability to maximize test coverage by detecting the smallest delay defects, and support for on-product clock generation for path delay and transition fault tests."

Cadence's new True-Time for bridges allows users to automatically generate delay tests that target bridging fault models, a common nanometer design defect. This new technology allows multiple types of bridging fault models to be generated automatically from potential defect sites. True-Time for bridges enables users to specify potential bridging fault sites based on signal integrity or layout analysis.

Another new feature is True-Time through RAMs. This capability addresses customer requirements to generate delay tests into and through non-scannable elements, including third-party RAMs. These new features of Encounter True-Time delay test are fully compatible with Encounter Diagnostics, the industry's leading-edge yield diagnostics product.

"Our work with top semiconductor companies such as Kawasaki Microelectronics is a further endorsement of our differentiated advantage with Encounter True-Time delay test," said Sanjiv Taneja, vice president of R&D for Encounter Test at Cadence. "Detecting the smallest delay defects before system integration—and using Encounter Diagnostics to quickly identify their root cause—ensures the highest-quality, lowest-cost, highest-yielding ICs."

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### ***NASA's Jet Propulsion Laboratory Selects Right Hemisphere Software to Enable Comprehensive Graphics Library***

7 November 2005

Right Hemisphere® announced that NASA's Jet Propulsion Laboratory (JPL) purchased its Deep Server™ PGM software for use across its facilities. Located in Pasadena, California, JPL is NASA's primary center for the exploration of our solar system and beyond. Right Hemisphere's software was purchased to streamline the graphics production pipeline and enable the creation of a unified graphics repository for spacecraft assemblies. As a result, space-age visualization techniques are being applied to meet a broad range of mission goals related to technical publications, spacecraft simulations, and mission project communications.

"Only the highest caliber hardware and software technology is employed at JPL to complete its missions. We view it as a great honor to have our enterprise software chosen to serve the needs of JPL's scientists, engineers, and support personnel," said Michael Lynch, CEO of Right Hemisphere.

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 processes 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.

JPL is managed for NASA by the California Institute of Technology in Pasadena. For more information, please go to <http://www.jpl.nasa.gov>.

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### **Northern Kentucky University Bridging Information Management, Sharing, & Collaboration Gap with ITI ProjectView™**

9 November 2005

International TechnoGroup Incorporated ([ITI](#)) announces the purchase of ITI ProjectView by Northern Kentucky University (NKU), one of the company's initial educational clients. The Master License agreement enables NKU to effectively manage, control, access, and share dissimilar information and data throughout the university's colleges and departments.

ProjectView is being implemented throughout various NKU colleges and departments serving a crucial role in information and data management, project management and facilitation, and as an overall collaborative backbone.

ITI ProjectView allows educational institutes, such as Northern Kentucky University, to:

- Manage information securely
- Provide seamless access to information
- Conduct meetings virtually

"The flexibility of web based capabilities and systems designed for project facilitation, especially in electronic collaboration, can be leveraged to organize people, processes and information," explained Robert M. Farrell, Associate Provost for Economic Initiatives for Northern Kentucky University. "With the implementation of ITI ProjectView we are seeing a great deal of success in helping organizations fully maximize their potential."

ITI ProjectView is an enterprise level web-based collaboration suite with strong document management capabilities and unique project management features. ITI ProjectView enables the effective management and sharing of information across disperse geographic, hardware, and software boundaries. Product development organizations along with those in such industries as education, health care and construction rely on ITI ProjectView to bridge that information management and sharing gap.

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### **Summer Industries Selects IFS Business Software to Support Growth**

9 November 2005

IFS announced that Summer Industries, a manufacturer of paper tubes, has signed a contract to implement IFS Applications™ business software. The company will deploy IFS' mixed-mode manufacturing solution, including constraint-based scheduling, shop floor reporting, workforce management, and business process modeling applications, at its headquarters and manufacturing plant in Welcome, North Carolina. IFS regional sales and services partner Brij Image & Information, Inc. (brij) signed the contract with Summer Industries.

"We looked at other packages but felt that IFS was manageable for us as a small company, and had the depth of functionality and the ability to grow with us," said Steve Summers, president of Summer Industries.

"We are pleased to have the opportunity to provide Summer Industries the IFS solution that will help them get their business processes in line and position them for the type of tremendous growth they are anticipating," said Martin Green, CEO of brij.

The process industry is one of IFS' seven targeted markets. IFS provides industry-specific functionality for enterprises in pulp and paper, metals, food and beverage, and chemicals segments. IFS Applications for the process industry provides a complete asset and product lifecycle management solution along with support for all critical business processes, including RCM (reliability-centered maintenance), OEE (overall equipment effectiveness), plant design, maintenance management, standardized real-time automation integration, order handling, manufacturing management, quality management, and demand planning.

IFS customers in the process industry include SCA Graphics, Billerud, Stora Enso, Holmen Paper, Peterson, Crane, De La Rue, Hutmen, SSAB, Nucor Corp, Pepsi, Iams, V&S Absolut Spirits, DuPont, XSYS Print Solutions, Willamette Valley Company, Akzo Nobel, Becker Industrial Coatings, Jotun and SICPA.

Summer Industries, headquartered in Welcome, North Carolina, serves customers in the Mid-Atlantic and Southeast United States in diverse industries such as pressure-sensitive tape and labels; paper, film, and foil manufacturing and converting; protective packaging; and textiles.

Established in 1986 in Greensboro, North Carolina, Brij Image & Information, Inc. (brij) offers a unique combination of business process solutions designed to help customers connect their operations, customers, and suppliers with seamless, automated business processes. These solutions include integrated and modular enterprise software solutions, web services-based solutions, composite application development, business process management, e-commerce and web development, customer relationship management, search engine marketing, branding, and collateral design solutions. Brij sells and implements solutions from partners, including IFS, Oracle, Cordys, and QlikTech. Brij is the master

distributor for IFS Applications in a sixteen-state area in the mid-Atlantic and southeastern United States. For more information, visit <http://www.brijconnects.com>.

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### **Swedish Railway Administration, Banverket, selects IFS Applications**

7 November 2005

Banverket Industrial Division, which supplies railway systems and related services in Sweden and other parts of Europe, will implement IFS Applications. The business software will enable Banverket Industrial Division to streamline management of a range of internal and external processes. The initial investment is valued at SKr8m and includes functionality for production purchasing, human relationship management, financials, and project management.

Ingemar Freidlitz, project manager at Banverket Industrial Division, said, “Since 2001, the market we operate in has been fully open to competition so efficiency is crucial to the development and survival of our operations. “The implementation of IFS Applications is part of a major change program. The solution will give us the tools we need to streamline our processes. For example, it will be easier to plan and control our complex entrepreneurial projects.”

IFS was chosen after a thorough evaluation of several suppliers, with functionality and good references being the decisive factors.

Ingemar Freidlitz added, “Our core business consists of complex entrepreneurial projects, but we also weld rails and manufacture signaling equipment and technical cabin in a traditional industrial environment. One of the main reasons for selecting IFS Applications was the ease with which we could handle both types of production with the same software. The IFS/Contract Management component is an important part of the solution because it will help manage all our contracts more efficiently.

In addition to manufacturing and the management of construction projects, Banverket Industrial Division will also use the solution to handle administrative tasks, such as time reporting. This means that all 370 employees will use the solution.

Bengt Brander, sales manager for service and facilities management solutions at IFS in Sweden, concluded, “The agreement with Banverket demonstrates that our investment in solutions for engineering-intensive companies and organizations is what the market demands. Banverket, which runs projects itself as an entrepreneur and subcontracts to other entrepreneurs, is a good example of a player that can achieve substantial efficiency gains thanks to the advanced IT support provided by IFS Applications.”

The solution will be implemented step by step, with the initial functionality becoming operational early next year.

The Construction and Service Management industry is one of IFS' targeted vertical market segments. The company offers a complete and integrated business solution that manages the complete construction lifecycle, including scope, tender, approve, award, deliver, and handover. With IFS Applications, customers can support and improve business processes within their project and asset lifecycles, and can collaborate more closely with suppliers, subcontractors, operators and customers. IFS Applications supports planning and forecasting, improves efficiency and control in day-to-day operations, and integrates project, asset and facilities management with sales contract management, workforce management, and business intelligence. Existing IFS Customers in the Construction and Service Management industry include Hertel, Babcock International, Alan Dick, First Engineering, Mitsui Babcock, and Rotary Engineering.

Banverket is the authority that is responsible for rail traffic in Sweden. It promotes development in the railway sector, assists the Swedish parliament and government in railway issues, is responsible for the operation and management of state track installations, coordinates the local, regional and inter-regional railway services, and provides support for research and development in the rail sector. Banverket Industrial Division is profit center within Banverket that competes on the open market. It has 370 employees and annual revenue of approximately SKr1bn. Banverket Industrial Division currently operates in the Nordic, German, and English markets. For further information, see <http://www.banverket.se>.

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### ***Thales Expands Deployment of PTC Solutions Across All Divisions***

7 November 2005

PTC announced that Thales, an electronics provider and systems integrator to the global aerospace, defense and security markets, has expanded its relationship with PTC by signing a new global 5-year contract. Thales will expand its use of PTC's Product Development System throughout all its divisions.

Thales, a PTC customer since 1991, has chosen PTC as one of its preferred partners for its strategic product lifecycle management (PLM) approach. The company is working with PTC to deliver a re-engineered and updated information system to support the product development process within and across all of its global divisions.

The implementation of PTC solutions will enable Thales to optimize common product development processes and improve sharing, management and control of product development data within and across the divisions. It will also ensure improved collaborative work for the extended product development teams within Thales as well as externally (suppliers, partners and customers).

"Like many of our customers, Thales gains competitive advantage through great products, even as its needs become more complex," said C. Richard Harrison, president and CEO, PTC. "As one of the early adopters of Pro/ENGINEER, Thales has shown its commitment to developing innovative, high-quality products. We are proud to expand our relationship with Thales and to be selected as a strategic partner in its forward-thinking PLM strategy."

Thales is an international electronics and systems group serving defense, aerospace, security and services markets. The Group employs 60,000 people throughout the world and generated revenues of 10.3 billion euros in 2004.

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### **University of Arizona to Begin Using ESPRIT CAM Software**

7 November 2005

The University of Arizona, Tucson, will now be integrating ESPRIT CAM software into their Systems and Industrial Engineering Department for both the bachelor's and graduate programs, said Professor Young-Jun Son. DP Technology, committed to furthering manufacturing and engineering in education, donated 25 seats of ESPRIT to the University, an equivalent of over \$800,000 retail.

“In our program, we teach CAM technology and we promote hands-on experiences for the students,” said Son. “ESPRIT is very well-known, and I want to teach the concept and use of state-of-the-art CAM software.”

ESPRIT's outstanding user interface, Visual Basic macro/scripting language and depth of its machining capabilities will be a perfect match for the University's program and contribute greatly to students' learning experience, Son said.

“DP Technology is proud to continue its support of educating future engineers with our contributions to the University of Arizona,” said Don Davies, DP's director of sales in the Americas. “ESPRIT's advanced technology will adequately prepare students to face the real-life challenges that lay before them in the professional engineering and manufacturing sectors.”

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## Product News

### **Agilent Technologies and Mentor Graphics Announce Integrated Diagnostic Solution to Speed Yield Learning in High-Volume Manufacturing Flow**

7 November 2005

Agilent Technologies Inc. and Mentor Graphics Corp. announced an integrated solution enabling high-volume diagnosis for logical and physical failure analysis in the semiconductor manufacturing test flow. The seamless integration between Agilent's 93000 Pin Scale test system and the Mentor Graphics YieldAssist diagnostics software enables fast online data collection in high-volume manufacturing.

Using this solution, manufacturers working at 90nm and below will now have integrated online diagnostic capabilities to shorten the time to production yield, with enhanced initial design debug, ongoing yield improvement, process control and quality assurance throughout the manufacturing process.

Working with a mutual customer, a leading communications semiconductor manufacturer, Agilent and Mentor Graphics have demonstrated and validated the solution on the 93000 Pin Scale tester using the Mentor Graphics YieldAssist product. The unique test-processor-per-pin architecture of the 93000 Pin Scale system enables per-pin result and failure capture capabilities, allowing diagnostic data to be filtered for relevance and captured without an increase in test time. Agilent's powerful, high-throughput data log feature, available on current Agilent 93000 releases, combined with Mentor's YieldAssist software, delivers a solution that speeds the data collection and analysis process and enables diagnosis, yield monitoring and data mining directly from production test data.

"As manufacturers go into volume production with 90nm designs and below, the initial yield ramp and the detection and isolation of design-specific systematic defects is a key challenge," said Robert Hum, vice president and general manager for the Design Verification and Test division at Mentor Graphics. "The open third-party interface of the 93000 Pin Scale system enabled smooth collaboration based on a standardized exchange format."

"This seamless solution will enhance the critical yield diagnostics capabilities needed at 90nm and below," said Pascal Ronde, vice president of Agilent's Automated Test Group. "Our efforts with Mentor Graphics are part of our ongoing work to address our customers' need for greater integration between design and manufacturing."

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. The high quality manufacturing tests created with the TestKompress® 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. More information is available at <http://www.mentor.com>.

The Agilent 93000 is the industry's fastest-growing scalable platform architecture for testing systems-on-chips (SOCs) and systems-in-packages (SIPs). With more than 1,000 installed systems worldwide, the Agilent 93000 is the system of choice for subcontract manufacturers, integrated device manufacturers and fabless companies. The Agilent 93000 meets the industry's demanding performance and cost challenges, whether at-speed device characterization or high-volume production. The test system provides massive multisite capabilities, enables data rates up to 10 Gb/s and supports a full range of digital, mixed-signal and RF applications. The flexibility and performance of the Agilent 93000 provide faster time-to-market, better yields and lower overall cost-of-test. More information on the Agilent 93000 is available at <http://www.agilent.com/see/soctest>.

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### ***Aton 4 Published at Customer Event***

20 October 2005

On the last Thursday of September Aton users gathered to meet colleagues, hear the latest product news and enjoy each others' company. From our customer base, the event featured Paroc, Lappset, Metso Minerals and KCI Konecranes, and among our partners, Oracle and Tacton Systems.

Publication of Aton's latest version, called Aton 4, formed the highlight of the event. A year ago we mapped our customers' product development requirements, which formed the basis for fine-tuning Aton to meet users' needs even better.

The major revisions of the new version are in the user interface, now allowing easy user and role-specific adaptation. We also invested in enhancing the use of information throughout the organization, adding to the number of integration interfaces. Aton 4 supports diversified business and will be available from the beginning of October.

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### **Autodesk Announces Support for Microsoft's Next-Generation Platforms and Frameworks**

7 November 2005

Autodesk, Inc. announced support for Microsoft Visual Studio 2005, the .NET Framework 2.0 and Microsoft SQL Server 2005. Autodesk and Microsoft work together across many technology areas. Autodesk's data management products, built using SQL Server, enable teams to gain greater insight and maximize efficiency by always having instant access to design information. The Microsoft products combined with AutoCAD-based products from Autodesk provide an optimal platform for application developers to realize their ideas in designing and creating a wide range of software applications, from shipbuilding to facilities management, plant design to urban planning, architecture to emergency response.

The latest versions of Microsoft solutions are aimed at maximizing developer and team productivity. The combination of SQL Server 2005, Microsoft's flagship database, and Visual Studio 2005 delivers advancements in data rich connected systems, enabling faster results for Windows-based, Web and mobile applications. Autodesk software enables customers to create, manage and share digital assets across project lifecycles. Microsoft and Autodesk work together to ensure their customers have robust tools to rapidly build industry-leading applications.

Joint customers already see the performance and productivity gains from working with these two industry leaders. "AutoCAD is pervasive throughout the shipbuilding industry, that's why we've used it as the platform for our ShipConstructor 3D product modeling software suite for over 10 years," said Darren Larkins, Chief Software Architect for Albacore Research Limited. "With Autodesk's encouragement, we took an early look at the .NET Framework 2.0 and found it surprisingly easy to use, especially within the Visual Studio 2005 development environment. We're excited to be working with the next versions of both AutoCAD and VisualStudio to make the design and production of ships and offshore structures even more intuitive, easy and 'automagic'."

Autodesk is currently engaged with Microsoft to ensure that the next releases of its design products and software development platforms will operate with Visual Studio 2005, including:

- AutoCAD
- AutoCAD Electrical
- AutoCAD OEM
- AutoCAD Mechanical
- Autodesk Inventor
- Autodesk Revit Structure
- Autodesk Revit Building
- Autodesk Building Systems
- Autodesk Architectural Desktop
- Autodesk Civil 3D
- Autodesk Civil Design
- Autodesk Land Desktop
- Autodesk Map 3D

Built on the SQL Server, Autodesk data management products, such as Autodesk Vault, Autodesk Productstream and Productstream Compass, are easy-to-use tools that help design teams track work in progress and automate the release-to-manufacturing process in multi-user environments. The combination of these products with Microsoft SQL Server helps customers in manufacturing industries maximize return on investment in design data by driving design re-use, and ensuring designs are comprehensively complete, accurate and approved.

"Microsoft and Autodesk have a long-standing partnership and share a passion for delivering technology that accelerates faster results across product and project life cycles, across every industry and vertical market," said Steve Guggenheimer, general manager of Application Platform and Development Marketing at Microsoft Corp. "Visual Studio 2005 and SQL Server 2005 will raise the bar further for the industry, enabling our large mutual customer-base to build best-in-class applications."

Through the Autodesk Developer Network, third-party commercial and individual software developers have access to the latest technologies for building industry-leading applications. "Microsoft has done an excellent job in addressing enterprise needs through platform advancements. With Autodesk software, SQL Server 2005 and Visual Studio 2005, we're looking forward to driving third-party software applications that designers can use to plan and build, anything from massive ships to multi-story skyscrapers," said Jim Quanci, global head of the Autodesk Developer Network. "With today's launch we have an even stronger enterprise software development platform for all of our industry-specific AutoCAD-based applications, which lead the world in design technology."

The Autodesk Developer Network (ADN) is comprised of more than 2,500 technology partners around the world, that extend Autodesk solutions to meet the industry-specific needs of customers. New compatible applications from ADN partners are launched every day at: <http://www.autodesk.com/partnerproducts>.

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### **AVEVA to Launch New Pipe Stress Interface**

9 November 2005

AVEVA announced it is to launch the Pipe Stress Interface, designed to interface its Plant Design Management System (PDMS) with piping flexibility and stress analysis tools such as CAESAR II.

Users will now be able to integrate piping designs between PDMS and stress analysis tools, without the need to re-input data, helping to cut down on time and costs in this otherwise lengthy and expensive process. The new product will provide a two-way piping interface designed to surpass its predecessor STRESSC that only offered a one-way interface and text functionality.

Additional benefits to the interface will be an interactive and intuitive application that will be able to create a pipe stress system from existing pipe routes within the PDMS database.

The Pipe Stress Interface will also have the ability to modify the order in which the stress system will be processed, choose the default flow direction and be able to configure the software for node increments, support positions, restriction of components to be transferred, allowable end conditions and allowable dataon errors.

As well as CAESAR II, plans are in progress to integrate other leading stress analysis formats through the interface. Richard Longdon, CEO of AVEVA, commented: "This interface has been designed to be the next step in piping stress analysis tools. Its compatibility with a variety of formats and its two-way interface provide the level of integration and workflow support that this discipline demands."

The interface will be available from March 2006.

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### ***Bentley Releases Bentley Building Electrical Systems***

7 November 2005

Bentley Systems, Incorporated announced the release of Bentley Building Electrical Systems. The new software, which provides electrical system design and engineering, documentation, and management, addresses the needs of consulting engineers, contractors, owners, and facility managers in the building industry.

Based on proven elcoSystems UK technology, the standard in the industry, Bentley Building Electrical Systems can be applied to a variety of subsystems. Examples include electrical power, lighting, fire detection, security, and communications.

"Bentley Building Electrical Systems is all about saving time, improving project quality, and increasing profits for everyone faced with meeting the demands of ever more complex electrical installations for commercial, institutional, and industrial buildings," said Brad Workman, vice president of Bentley Building. "Its application goes beyond the project design phase to also include assessing and resolving coordination issues during construction and operations."

"Moreover," continued Workman, "this MicroStation-based software integrates with Bentley's other products to provide the first multidisciplinary building information modeling (BIM) electrical design solution for the building industry. As a result, it enables architects and engineers to build as one."

Completing Bentley's mechanical/electrical/piping (M/E/P) solution, Bentley Building Electrical Systems complements Bentley Architecture, Bentley Structural, and Bentley Building Mechanical Systems. It offers a comprehensive range of dedicated tools for automated symbol placement, circuiting and labeling, raceway design, cable/circuit routing and management, and automated generation of riser diagrams and drawing legends.

The new software provides the following features:

- Integrated schedules and reporting—Electrical properties and user-definable attributes associated with electrical components can be used to query the information model, to make selective or global changes to the electrical systems and nongraphical information, and to generate accurate schedules and reports, such as cable and device schedules, cost estimates, panel schedules, and so on. Bentley's BIM data systems and a configurable Microsoft Excel interface are both supported.
- Automated drawing production and coordination—Design and construction deliverables are an output of the design workflow instead of driving the process. Design data is entered once and used multiple times. Features such as automated generation of schematic diagrams and drawing legends facilitate the rapid creation of construction drawings. Plans, sections, and elevations comply with user-definable drawing standards and rules. Coordination and consistency are thereby ensured across all documentation.

- Integration with analysis—Bidirectional interfaces to a variety of industry-standard power engineering and lighting design analysis programs, such as EDSA, ProDesign, Lumen Designer, DIALux, and Relux, are provided. These interfaces are localized for maximum benefit to users with country-specific codes and standards requirements. Interactive design and analytical interfaces in the design process ensure good design practices and eliminate errors associated with manual data input.
- Stepwise refinement of the design process—Electrical design is typically an incremental process that must also deal with significant design changes. Bentley Building Electrical Systems supports "stepwise refinement," a strategic philosophy that allows design professionals to add more detailed information at different stages in the project lifecycle. Also, changes can be rapidly incorporated into the design.
- Design and modeling of electrical subsystems—This software streamlines the design and modeling process for a variety of electrical subsystems and supports a number of international standards.
- Choice of 2D, 3D, or both—The building information model can be created and manipulated in a traditional 2D view or an advanced 3D model environment, using the same tools and interface.

Bentley Building Electrical Systems is offered as either a single-user license or as a part of the Bentley SELECT and Enterprise License Subscription (ELS) program. To learn more, visit <http://www.bentley.com/electrical>.

BIM provides business-critical benefits over traditional computer-aided drafting (CAD), eliminates waste, significantly reduces errors and omissions, provides greater predictability of costs and performance, allows exploration of more design options, and ultimately results in better buildings. To learn more, visit <http://www.bentley.com/bim>.

elcoSystems UK Ltd is a subsidiary of Hannappel SOFTWARE gmbH, which was established as Hannappel Consulting Engineers in 1961. Today, Hannappel SOFTWARE gmbH is a software provider for professional computer-aided engineering and computer-aided design for electrical installation engineering. Its expertise has been built on the experience of more than 400 projects as consulting engineers, combined with 20 years of hands-on experience in the software market. The company is the technology and market leader in German-speaking Europe (DACH). Its software is successfully used by over 700 consulting engineering companies, more than 150 electrical contractors, and some of the largest firms and projects in the area of electrical installation.

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### ***Cadence Supports STARC Technology to Improve Delay Test Quality***

7 November 2005

Cadence Design Systems, Inc. announced a cooperative quality modeling initiative with the Semiconductor Technology Academic Research Center (STARC). The two companies are working together to estimate the semiconductor device outgoing quality level as a function of delay test robustness applied in manufacturing. The first result of the initiative is STARC's quality model's validation of Cadence® Encounter® True-Time Delay Test.

Delay defects slow signal transitions in nanometer-scale designs, making delay testing critically important. Without the use of a truly effective delay test, delay defects go undetected and possibly cause failures later in the supply chain, causing significant issues in customer satisfaction and higher warranty costs. Assessing the effectiveness of delay testing by examination of test coverage percentage can be misleading because the actual timing of the test for each fault determines if a delay defect of a given size is detected or not. To address this, Cadence supplies the market with Encounter True-Time Delay Test, the industry's first automatic test pattern generator (ATPG) that can automatically generate timing accurate delay tests.

"Studies of our member companies have shown that traditional delay test tools do not detect an increasing number of critical small delay defects," said Yasuo Sato, senior manager, Test Methodology Group at STARC. "STARC has developed a statistical delay quality model (SDQM) methodology to quantify the effectiveness of a given delay test method. Cadence has successfully implemented support and validated results for this technology. Based on the results observed with our experiments, we expect that Encounter True-Time Delay Test can be very effective in detecting small delay defects, and thus improve the chip's outgoing quality level."

In order to better quantify the differentiated value of Encounter True-Time Delay Test, Cadence and STARC worked together to validate an SDQM that reflects fabrication process quality, design delay margin, and test timing accuracy. The model provides an educated estimate of the quality level of the chip as a function of defects that cause delay-related failures and as a function of the timing of the test for each fault.

"Our cooperation with STARC demonstrates the advantages True-Time Delay Test provides customers," said Sanjiv Taneja, general manager of Encounter Test at Cadence. "Be it in terms of detecting test escapes that later fail at system test or estimating outgoing quality levels, we are confident that True-Time Delay Test will bring significant and differentiated benefit for nanometer designs."

Part of the Cadence Encounter digital IC design platform, Encounter True-Time Delay Test is also fully compatible with Encounter Diagnostics, the industry's leading-edge yield diagnostics product. In the effort to accelerate yield ramp, customers will benefit from the additional test efficiency of True-Time Delay Test and the subtle defects detected by it can be driven to root cause by Encounter Diagnostics.

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***CCE Updates its Mastercam Interoperability Solutions to Support Mastercam X***

10 November 2005

CCE announced that its Interoperability Solutions for Mastercam have been updated to support Mastercam X.

The updated products include:

- MC/Cat5—CATIA V5 to Mastercam Direct Translator
- MC/Ug—Unigraphics to Mastercam Direct Translator

Both products are C-Hooks integrated directly into Mastercam and provides seamless data exchange between the two systems. They do not require either CATIA V5 or Unigraphics license or software to operate.

CCE offers a wide range of conversion solutions between CATIA, Pro/ENGINEER, Unigraphics, SolidWorks, Solid Edge and Mastercam systems. Parasolid, IGES and STEP standards-based translators are also available.

CCE has a fully equipped service department to help clients translate complicated feature-based models with parametric history, bulk data conversions as well as 2D data that cannot be cost-effectively automated.

CCE is an engineering product development and services company that was established in 1989. CCE operates out of offices in Michigan and New Jersey in the USA, and a state-of-the-art development center in Chennai, India. CCE's products include translation software to exchange data between dissimilar CAD/CAM systems, visualization software to view CAD data, and supply chain data management software to seamlessly exchange large amounts of CAD data between OEMs and their suppliers. For further information, visit <http://www.cadcam-e.com>.

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### ***Cimmetry Announces Support for SolidWorks 2006 and CATIA V5R15***

11 November 2005

Cimmetry Systems Corporation, an Agile Software Corporation company, announced that Service Pack 1 for AutoVue 19 adds support for SolidWorks 2006 and CATIA V5R15. This service pack is available immediately for AutoVue customers currently under maintenance.

Frequent service pack releases allow Cimmetry to respond quickly to customer reported issues, remain at the forefront of format support, and maintain the level of quality collaborative visualization functionality that its global customer base and partners have come to expect in AutoVue.

For a complete list of formats supported by AutoVue please visit <http://www.cimmetry.com/formats.html>. To download a fully functional demonstration version, try an online demo, or schedule a real-time collaboration meeting using AutoVue, visit <http://www.cimmetry.com>.

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### ***CoWare SPW Advances Verification of 3G Wireless Modems***

7 November 2005

CoWare, Inc. announced the availability of the High Speed Downlink Packet Access (HSDPA) models in 3GPP Library for its SPW signal processing design solution. Wireless system designers are able to reduce their specification risk by up to 70%.

“Designing an HSDPA system requires a myriad of system performance simulations,” said Dr. Ahmad Vafaei, Senior Staff Engineer, InterDigital Communications Corporation. “We have been using CoWare’s HSPDA Library as a reference tool for the 3GPP Release 5 standard. Having an executable reference for 50% of the modem functionality lets us focus on the differentiating components of our HSDPA algorithms.”

“CoWare’s wireless design solution goes beyond the proof of concept demonstrations other ESL solution providers are offering,” said Johannes Stahl, Director Marketing, CoWare. “Our experienced team of wireless design experts continues to deliver detailed, high-quality libraries in lock step with the published standards. Whether you design a particular modem or you are working on software-defined radio, CoWare has the wireless models you need.”

### *HSDPA – Complex, Adaptive Modulation and Coding, Hybrid ARQ*

HSDPA delivers high data rates according to the transmission conditions by using adaptive modulation and coding (AMC) schemes. These cover a wide dynamic range in order to cope with the varying downlink radio and channel quality conditions at the handset. HSDPA adapts to these conditions by modifying the effective code rate, the modulation scheme, the number of codes used and power per code. The Hybrid ARQ (H-ARQ) mechanism is used in HSDPA to reduce the delay and increase the efficiency of the retransmitting data. Developing HSDPA receivers, which exhibit the desired performance using AMC and H-ARQ under varying channel conditions, is a design problem with an order of magnitude more scenarios to consider than the static modulation schemes used in previous 3GPP standards.

### *SPW Libraries Speed HSDPA Design*

CoWare SPW is a complete platform for design and verification of DSP algorithms. Its up-to-date communications and multimedia source code libraries are transparently accessible, providing unmatched value for standards explanation and design. The 3GPP library is Release 5 compliant with the newly-added executable end-to-end system models of the HSDPA standard. Using the library, system engineers can rapidly create an accurate model of the system, incorporate their differentiating components, and then simulate the system under different scenarios to optimize the system performance. Leveraging SPW’s high simulation speed, users can now explore many system options. And, with source code delivery and powerful PolyModel, designers can use the library as a starting point for detailed fixed-point design. Because the SPW HSDPA library was developed from active participation in the standardization process and with many years of experience developing 3G UMTS/WCDMA models, second-guessing of written standards proposals is eliminated.

### *Availability & Pricing*

CoWare SPW with the 3GPP HSDPA Library and Communication Library is available today. For pricing and additional information on SPW and CoWare’s other products, visit <http://www.coware.com>.

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### **Dassault Systèmes V5 PLM Solutions to Support Microsoft SQL Server 2005**

7 November 2005

Dassault Systèmes (DS) announced that its V5 PLM solutions, including CATIA, DELMIA, ENOVIA and SMARTEAM, will support Microsoft's SQL Server 2005, Visual Studio 2005, and BizTalk Server 2006, all of which are being launched today at a global Microsoft event in San Francisco, California. DS's support of these products will enable its customers to be more productive and make better decisions in a reliable and security-enhanced environment, through broader insight into essential business processes.

The key advantage for DS's PLM customers will be more easily deployed PLM solutions and more efficient integration of enterprise systems. With BizTalk 2006 and V5 PLM Web Services, DS customers will be able to use ENOVIA Lifecycle Applications to synchronize their PLM solutions with other enterprise systems. SQL Server 2005 brings the cost effective deployability and scalability of SQL server to a new class of Enterprise PLM.

"PLM solutions in today's global environment require synchronized business processes that are adaptable to changing business requirements," noted Florence Hu, Director, R&D, Open Architecture, Dassault Systèmes. "V5 PLM applications must interact with others in a secure, reliable and managed environment. Taking advantage of Biztalk's out-of-the-box third party integration capabilities offers seamless enterprise application integration by building business processes on our existing open PLM architecture."

The integration of Visual Studio 2005 in CAA V5 will offer the developers' community a highly productive and easy-to-use environment, due to Visual studio's increasingly powerful coding and debugging capabilities.

Via SMARTEAM on SQL Server 2005, Dassault Systèmes' customers will achieve superior database performance at a low cost, rapid deployment and improved ROI. The data management and developer productivity improvements in SQL Server 2005 will further enhance the solution's robustness.

"PLM solutions based on SMARTEAM are built on and compatible with Microsoft's cost-effective enterprise platform and technologies, among them SQL Server, BizTalk and Visual Studio," said Adina Enden, General Manager for Dassault Systèmes' SMARTEAM brand. "The enhanced versions of these powerful Microsoft products are in step with the growing collaboration needs of our customers, helping them further expand, tailor and unleash greater value from their SMARTEAM solutions."

This launch represents a significant milestone, demonstrating Microsoft's commitment to delivering next-generation platforms offering unparalleled developer productivity, while simplifying the integration of systems and users. SQL Server 2005, the latest version of Microsoft's flagship database product, enhances the key areas of enterprise data management, developer productivity, and business intelligence. Visual Studio 2005 enables all types of developers to be more productive, and BizTalk Server 2006

reduces the complexity of enterprise system integration, by effectively building on the Microsoft Windows Server System's advancements in scalability, availability, and reliability.

"Microsoft is pleased that Dassault Systèmes will support SQL Server 2005, Visual Studio 2005 and BizTalk Server 2006 in its V5 PLM solutions," said John Montgomery, Director, .NET Developer Product Marketing Group, Microsoft Corp. "By supporting the Microsoft application platform, Dassault Systèmes is enabling its customers to gain faster results, make better decisions, and achieve the real advantages offered by an integrated platform."

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### **Dassault Systèmes and IBM Announce Version 5 Release 16 of their Product Lifecycle Management (PLM) Portfolio**

8 November 2005

Dassault Systèmes (DS) and IBM announced the release of Version 5 Release 16 (V5R16) of their Product Lifecycle Management (PLM) portfolio, comprised of CATIA for collaborative product development, and ENOVIA and SMARTEAM for product data and life-cycle management, collaboration, and decision support. Concurrently, Dassault Systèmes announced DELMIA V5R16 for the digital development of factory and production processes.

"V5R16 helps our customers create more innovative products and leverage the talents of their global supply chains," noted Dominique Florack, Executive Vice President, R&D, Dassault Systèmes. "The new release increases the power of the V5 PLM platform in three ways: by delivering unified PLM solutions for unrivalled gains in productivity; by extending the reach of 3D XML within the enterprise for ease of communication; and by accelerating performance with Microsoft Windows 64-bit support."

*The V5R16 release:*

**Optimizes Business Processes** – V5R16 extends the coverage of the large portfolio of V5 process-centric applications. It delivers significant new PLM capabilities for all industries in the modeling, simulation and electrical domains. New Product Simulation Management capabilities in ENOVIA fully integrate product simulation with design and lifecycle management processes – improving productivity for all companies that perform and manage product simulations.

**Empowers Value Chain Innovation** – V5R16 delivers new collaboration capabilities within ENOVIA V5 VPM Navigator and SMARTEAM TeamPDM, enabling extended networks of partners to work together in globally distributed 3D environments. Entire engineering packages can now be shared and managed bi-directionally while protecting intellectual property, enabling true concurrent engineering across the value chain.

**Streamlines Engineering-to-Manufacturing Cycles** – V5R16 delivers on Dassault Systèmes' Product-Process-Resource model. Major new extensions in the ENOVIA Engineering and Manufacturing hubs enable companies to obtain unique competitive advantages from the CATIA, DELMIA, ENOVIA and

SMARTEAM PLM applications. V5R16 improves the integration of engineering and manufacturing environments: engineering specifications captured within the 3D environment are automatically made available and accounted for during manufacturing process planning, thereby ensuring a lean process flow from design intent to production set-up.

***Continuously Grows Intellectual Capital*** – V5R16 captures and re-uses business processes and intellectual property, both at the enterprise level with Enterprise Process Management, leveraging IBM Websphere technology, and at the Engineering or Manufacturing level, with the V5 Business Process Knowledge templates.

***Maximizes Standard Adoption*** – V5R16 has been designed to deliver a comprehensive 64-bit PLM architecture, and continues to leverage the proven openness of the V5 platform by providing major XML enhancements through its combined 3DXML and web services strategy. Adoption of the V5 architecture continues to grow, with two new industry-leading CAA partners and 360 V5 applications already available. New integration of the 3D XML Player with Lotus Notes enhances collaboration and joint decision-making by sharing 3D product and business information.

“V5R16 is a key enabler of the processes we are deploying on the 787 program,” said Kevin Fowler, Vice President, Systems Integration Processes & Tools 787 Program, The Boeing Company. “Most notable is the integration of Product Lifecycle Management using 3D-only design data across engineering definition, manufacturing and product support. This demonstrates the continuous innovation and breakthroughs we are realizing working with Dassault Systèmes on the 787 program.”

At Fissler, a developer of innovative cookware and kitchen accessories, Dr. Andreas Hillenmeier, Manager of Product Development, noted, “Our Intensa cooking systems are renowned worldwide. They are synonymous with quality and innovation. CATIA V5 and SMARTEAM have been instrumental in helping us constantly exceed our customers’ expectations. We are all excited about the potential for CATIA V5 and SMARTEAM to further improve our products and efficiency.”

“Helping customers increase their competitiveness is always foremost on our minds. Our ability to help our customers respond to their critical challenges in a changing and highly competitive environment is certainly strengthened with this release. Leveraging the support of IBM’s open and scalable PLM infrastructure, we can offer even more value to customers engaged in continuous innovation,” says Walter Donaldson, General Manager, Product Lifecycle management, IBM.

V5R16 Brand Highlights: for detailed V5R16 brand information, visit <http://www.3ds.com/V5R16> or <http://www.ibm.com/software/plm>.

***CATIA for collaborative product development*** – V5R16 accelerates collaborative product design with 64-bit support of the full CATIA portfolio on Microsoft Windows. It strengthens virtual product design and simulation by significantly improving the CATIA solutions in the simulation, electrical, shipbuilding, and modeling domains. It expands the usefulness of the open and extremely lightweight 3D XML format by embedding additional PLM product information, such as annotations and animations. The new release enables 3D-only paperless design-to-manufacturing, while VPM Navigator and TeamPDM streamline product development, by enabling teams to seamlessly manage advanced design process information from within a single engineering desktop.

**ENOVIA for product data and lifecycle management and decision support** – V5R16 supports AIX and Windows 64-bit across all ENOVIA DMU and VPM portfolios. It drives next-generation openness and infrastructure standardization via native Web Services connectivity, and deepens industry process coverage through new products for managing product simulation and electrical cable routing processes. V5R16 widens the scope of the Engineering and Manufacturing hubs' cross-process coverage, thereby streamlining global product development collaboration. The release enriches industry-leading PLM change management and Enterprise Process Management tools for business agility, and accelerates ENOVIA V5 deployments and user-productivity through improved navigation and reporting tools.

**SMARTEAM for product lifecycle collaboration** – V5R16 fosters design continuity across the value chain by facilitating collaborative exchange around CATIA relational data.

It optimizes decision support by seamlessly integrating impact analysis and digital mock-up processes, and improves deployment of enterprise collaboration practices. V5R16 improves productivity through enhanced process automation and product knowledge reuse, and lowers the total cost of ownership through expanded enterprise interconnectivity and support for de facto industry standards.

**DELMIA for digital development of factory and production processes** – V5R16 supports Windows 64-bit across the entire DELMIA PLM portfolio. V5R16 enables users to access and manipulate very large datasets as they develop, plan and validate manufacturing processes. It delivers more power to capture and communicate knowledge efficiently, and helps the extended enterprise deploy V5's unified solutions for engineering and manufacturing. 'Best in Class' manufacturing process planning, detailing, simulation and validation solutions for the machining and ergonomics domains are reinforced. The reach of 3DXML is extended to the manufacturing domain.

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### **DongbuAnam Semiconductor and Synopsys Jointly Develop 130nm Reference Flow**

4 November 2005

DongbuAnam Semiconductor Inc., one of the world's largest pure-play wafer foundries, today announced that it has worked with Synopsys, Inc. to jointly develop a reference flow for DongbuAnam's 130-nanometer (nm) process. Synopsys Professional Services collaborated with DongbuAnam engineers to develop an optimized 130-nm RTL-to-GDSII design flow, named DAS Ref 130.1, based on Synopsys' Galaxy™ Design Platform. The result of this development is an easy-to-adopt reference flow, which addresses key 130-nm design challenges such as power management and signal integrity closure. DongbuAnam's customers now have immediate access to the DAS Ref 130.1 reference flow, which is expected to speed time to quality results.

"We are pleased to complete this collaboration with Synopsys to give our customers access to a leading EDA IC design platform for our advanced 130nm GL130S process technology," said Dr. Heung-Joon Park at DongbuAnam. "The availability of this jointly developed reference flow is well timed to support new 130-nm chip designs targeting communications and digital consumer electronics applications. We look forward to ongoing collaboration with leading EDA firms such as Synopsys to help ensure our customers have a clear path to get their complex chips to market in a predictable way."

The reference flow incorporates the following Galaxy Design Platform tools: Design Compiler® logic synthesis product and DesignWare® Library for RTL synthesis, power optimization and test logic insertion; JupiterXT™ floorplanning product for rapid design planning, power network synthesis and initial IR-drop analysis; Physical Compiler® physical synthesis product for power-aware physical synthesis; Astro™ advanced physical design system for SI and EM-aware clock-tree synthesis and routing; AstroRail™ power integrity analysis, implementation and verification tool for IR-drop and EM analysis; industry standards Star-RCXT™, PrimeTime® and PrimeTime SI tools for parasitic extraction and SI-aware timing sign-off; Hercules™ PVS physical verification product; and TetraMAX® automatic test pattern generation and yield diagnostics product. The advanced features of these tools embedded in the reference flow provide designers proven capabilities for addressing 130nm design issues and enable more predictable tape outs to DongbuAnam's foundry. The DAS Ref 130.1 reference flow is available now. For details, please contact DongbuAnam at [design@dsemi.com](mailto:design@dsemi.com).

DongbuAnam Semiconductor, one of the largest pure-play wafer foundries in the world, specializes in CMOS wafer processing that enables System-on-Chip implementations that integrate the most advanced logic, analog, and mixed-signal technologies. Through close working relationships with strategic partners, DongbuAnam offers a broad range of services that augment its world-class wafer manufacturing capabilities. DongbuAnam is a key global supplier within Korea's well-established semiconductor manufacturing infrastructure. For more information, visit <http://www.dsemi.com>.

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### ***Encounter Test Successfully Validates Compatibility with Agilent 93000 SOC Series to Address Nanometer Design and Manufacturing Challenges***

7 November 2005

Cadence Design Systems, Inc. announced that the Cadence® Encounter® Test family of products has been validated on Agilent's 93000 SOC Series automated test system. With this validated test and diagnostic flow between electronic design automation (EDA) and automated test equipment (ATE), joint customers can be confident of higher-quality tests, faster test program creation, and more rapid resolution of yield limiters for their most challenging nanometer designs.

The validation of the test and diagnostics flow enables interoperability through industry-standard formats including Standard Test Interface Language (STIL) and Waveform Generation Language (WGL). This interoperability is critical for a smooth hand-off between the Encounter True-Time Delay Test and Agilent 93000 users and for shortening the time to fully operational production test.

"As a result of our work with Cadence on this important project, our joint customers will have confidence in their test and yield diagnostics flow when they use Encounter Test on the Agilent 93000," said Pascal Ronde, vice president of Agilent's Semiconductor Test Solutions. "This linking of EDA and ATE for test generation and diagnostics removes a significant barrier to meeting critical time-to-market requirements faced by semiconductor companies without such a validated flow."

The collaboration also validated Encounter Diagnostics, which identifies critical design-related issues by analyzing failure data from automated test systems to identify sources of yield loss. This requires full

compatibility with the tester to assure that tester failure data efficiently interfaces to Encounter Diagnostics' Chip Pad Pattern (CPP) format.

"This level of interoperability between test generation, ATE and diagnostics will speed our customers' test development time, improve product quality, and shorten yield ramp times," said Sanjiv Taneja, vice president of R&D for Encounter Test at Cadence. "The efforts of Cadence and Agilent demonstrate both companies' commitment to address our customers' needs through a tight collaboration."

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### **FLOTHERM and FLO/EMC Version 6 Improves Integration of Thermal and EMC Simulation**

November 2005

Flomerics has released Version 6 of its integrated analysis environment for physical design of electronics, with improved communication between thermal and electromagnetic compatibility (EMC) simulation. The latest Flotherm and Flo/EMC software packages further reduce the time required for integrated simulation by automatically generating two different meshes, one optimized for thermal simulation and one for EMC simulation. "Automatically generating and maintaining separate meshes for these two different physical design problems greatly simplifies things for the users, and saves time and improves accuracy by eliminating the need to re-optimize the mesh when switching from one type of analysis to the other," said Mike Reynell, Director of Marketing for Flomerics.

The need for two meshes arises from the fact that the physics are different in thermal and EMC problems so grid refinement is required in different places. Examples of critical areas in thermal models include the areas between the fins of a heat sink and regions surrounding components that dissipate a lot of power. On the other hand, critical areas for EMC simulation include seams and small openings in the enclosure where radiated emissions occur. Flotherm and Flo/EMC Version 6 make it possible for users to optimize thermal and EMC meshes independently. Geometric feature changes in the design automatically propagate between the models while leaving mesh refinements intact.

Another advantage of the new releases is that Flotherm can now access the web-based "SmartParts3D" library directly, utilizing compact models and reducing the time required for modeling and analysis. Compact models provide computationally efficient representations of components' thermal and EMC characteristics. Many manufacturers of fans, heat sinks, thermal interface materials, and other components have contributed data to the SmartParts3D library, located at <http://www.SmartParts3D.com>. Flotherm Version 6 now makes it possible to launch a web browser from within the thermal analysis software and simply click on a compact model to add it to the thermal simulation. Flo/EMC Version 6 enables users to create compact models that accurately describe the electromagnetic signature of radiating items such as printed-circuit boards. The new software is able to import and derive compact models from measured data such as EMSCAN's near-field scanner or from board-level signal-integrity tools such as Speed2000 from Sigrity, RadiaSim from SimLab, and OmegaPlus from Quantic.

Flotherm Version 6 provides a new tetrahedral object that provides a better representation of curved, thick 3D shapes such as spheres. It can also now model ambient temperatures that vary with time. The

thermal simulation software also can now model angled fans and resistances and centrifugal blowers in which the air outlet is 90 degrees from the air inlet. Flo/EMC Version 6 expands external excitation mode capability by making it possible to arbitrarily define the incident angle and polarization. Visualization in Flo/EMC has been extended to enable viewing of user-defined excitation waveforms. EMC specific libraries such as sources, supports, and gaskets are also new to Version 6. Flo/EMC and Flotherm solvers will be supported with a number of 64-bit processors including AMD Athlon 64, AMD Opteron, Intel Xeon with EM64T and Intel Pentium 4 with EM64T.

When used together, Flotherm and Flo/EMC Version 6 make it possible to address thermal and EMC design in a collaborative manner. Mechanical engineers can identify thermal and EMC issues in the early stages of the design process, long before prototypes are available, and perform design studies to resolve them. Being able to address thermal management and EMC issues within a single environment also makes it possible for mechanical engineers to get a head start on the difficult design tradeoffs that are frequently required between these two disciplines. Flomerics offers a new step-by-step guide that explains how engineers can integrate thermal and EMC design to help identify and resolve system-level mechanical design issues.

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### **Gerber Technology to Offer Fashion Lifecycle Management™**

9 November 2005

Gerber Technology announced that it is marketing a new Product Lifecycle Management (PLM) solution designed to meet the specific needs of the fashion market. Fashion Lifecycle Management™ (FLM) combines Gerber's WebPDM product development management software with a proven apparel PLM workflow solution. The product is expected to be available in the second quarter of 2006.

“While PLM developed out of the needs of discrete manufacturing, for example automotive and aerospace manufacturing, the PLM requirements of the fashion industry are significantly different,” said Holly Beum, director, software product management. “Fashion Lifecycle Management gives designers and manufacturers of apparel, accessories and home furnishings the exact tools they need to improve and shorten the development cycle.”

Gerber's Fashion Lifecycle Management solution complements and integrates fully with WebPDM and includes image collaboration, project management functionality, product specifications and versioning, and integrated workflow. “Gerber Fashion Lifecycle Management provides a robust, enterprise-wide tool for global product management from concept to retail distribution. With Gerber FLM, our customers will be able to see the progress of all fabrics, trims and approvals and share this information with all those who need it—anywhere in the world. Users can more easily manage their tasks and managers can track processes, look for bottlenecks and adjust workflows,” added Beum.

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### ***GiveMePower Ships PowerCAD SiteMaster 2: Laser-Based Solution Automates the Creation of Floor Plans, Areas and Inspection Drawings***

8 November 2005

GiveMePower Corporation began shipping PowerCAD® SiteMaster™ 2, the second generation of its automated software system which lets anyone create professional, AutoCAD®-compatible floor plans, inspection drawings and area calculations at "the speed of light"—anytime and anywhere using a handheld laser and any Windows® desktop or mobile computer.

Proven to increase productivity by up to 1,000% on jobs for McDonald's, Cartier, Deutsche Telecom and the US Navy, SiteMaster 2 features new tools which greatly enhance the speed and ease by which new or 'as-built' floor plans, inspections and precise area calculations are created for the construction, design, maintenance, management and delivery of building information.

Primary users benefiting from the use of SiteMaster 2 include architects, appraisers, contractors, estimators, facility managers, inspectors, owners, planners and real estate agents; and also public officials who can now computerize storage and remote accessibility of up-to-date digital building plans for first responder and other public safety/security purposes.

"Our customers are telling us that SiteMaster 2 may be one of the most important advancements in the history of building information management", said Bill Walton, president and CEO of GiveMePower. "Most certainly, there is no other system in the world that is as fast and easy to use in measuring and producing precise digital building plans for literally millions of potential building surveys. If doing the same job at least twice as fast as before, using half the labor and with 100% laser precision qualifies, we're pleased to accept the acclaim on behalf of our clients."

More than 100 companies, government enterprises and educational institutions, representing over a hundred million square feet of commercial and residential building space, helped contribute to the final production release of SiteMaster 2. Highlighted projects and success stories using PowerCAD SiteMaster 2 include:

- Average 600% productivity improvement for on-site creation and instant email delivery of more than 300 as-built restaurant drawings for McDonald's, helping the foodservice provider meet strict new public safety and security laws in the UK.
- More than 500% productivity improvement in the creation and management of precise, as-built building information in support of event management for 56.5 million cubic feet of space at Rogers Centre in Toronto, Canada. Includes data for specific drawings for each event that are sent to structural engineers (load analysis), fire marshals (safety), ticket agencies (seating), and event production (sound, audio/visual, rigging, decor, etc).
- Under 2-week deployment for Vivento Technical Services in Germany, allowing 25 initial team members with no prior experience to successfully measure and draw 13,778 rooms representing

over 1 million square meters of technical areas and facilities throughout Germany for Vivento's parent company, Deutsche Telecom.

Profiled in a Microsoft Corporation white paper and acclaimed as "truly revolutionary" by industry trade publications, PowerCAD SiteMaster utilizes a portable handheld laser such as the Leica DISTO™ Plus to facilitate instant "point and shoot" creation of detailed, AutoCAD®-compatible drawings anytime and anywhere using a Bluetooth® wireless desktop, laptop or XP tablet PC—or on a Windows® Mobile® pocket PC, handheld PC or pocket PC cell phone, which combines the power of a pocket PC with the convenience of a cell phone.

PowerCAD SiteMaster is part of GiveMePower's family of CAD Anywhere™ 2D and 3D design, viewing and mobile/wireless collaboration solutions—each designed to save time and money in the office, in the field or on the shop floor. Other users benefiting from GiveMePower technologies include; AT&T, General Dynamics, Maytag, Penn State University, the United States Postal Service and other branches of the U.S. Military.

### *PowerCAD SiteMaster 2 Availability*

PowerCAD SiteMaster 2 is now available for purchase at special introductory pricing from \$995 until Dec. 31, 2005. For more information, including bundled laser, software and hardware configurations, contact a GiveMePower Premier Solutions Provider, call 1-888-977-6937, or see [http://www.givemepower.com/products/powercad\\_sm.cfm](http://www.givemepower.com/products/powercad_sm.cfm) for details on how to obtain a free 30-day trial version.

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## **Growing the Collaborative Manufacturing Community with DELMIA Version 5 Release 16**

8 November 2005

Dassault Systèmes (DS) announced the latest release of DELMIA V5 PLM Manufacturing Solutions for the digital design and validation of factories and production processes, as part of Release 16 of their Version 5 (V5R16) Product Lifecycle Management platform.

With the release of DS' V5R16, DELMIA will support the Microsoft Windows 64-bit operating system and certified hardware platforms, enabling users to access and manipulate very large datasets as they develop, plan and communicate manufacturing and production processes.

“The manufacturing communities can continue to grow by taking advantage of this new technology. It eliminates the memory limitations encountered when dealing with large data models, such as an entire factory, and enhance the power of digital process planning, detailing and 3D simulations,” says Philippe Charlès, CEO, DELMIA. “This will without a doubt increase the overall collaboration, performance and value for an enterprise, by connecting people and accelerating product and production engineering.”

### *DELMIA V5R16 Highlights:*

***Increase Performance for Collaborative Workspaces*** – DELMIA V5R16 is released on the Microsoft 64-bit platform, giving users the ability to process larger data sets and manipulate complex models. The 64-bit platform also provides faster load times, simplified 3D views, and improved communications between design, manufacturing and production.

***Empower Engineering-to-Manufacturing Collaboration*** – DELMIA V5R16 provides the ability to apply the power of Change Management Actions to manufacturing process planning, thereby providing rigorous control over business processes and tightly integrating this control with product engineering through ENOVIA V5. This ensures a continuous data-share and understanding between design intent and the manufacturing processes.

***Communicate Knowledge Downstream***—DELMIA V5R16 empowers manufacturing planners to directly re-use and reconcile captured design requirements data in their process plans and to translate this engineering knowledge in electronic work instructions for delivery to the shop floor.

***Capture Enterprise Knowledge*** – With DELMIA V5R16, the aerospace community has the ability to capture ‘non-conformance’ details on the shop floor using V5 DPM Shop, and assist the enterprise compliance with FAA requirements by documenting and storing this information within the MES system. The shop floor can also leverage this ‘captured knowledge’ to enhance and update its electronic work instructions for improved production efficiency.

***Reach the Extended Network*** – DELMIA V5R16 allows users to generate lightweight 3DXML models of both product and resource geometry in the context of the manufacturing process plans. These lightweight models can then be used downstream with any Microsoft Office application for the purpose of generating documents with 3D interactive capabilities, thereby bringing these documents ‘to life’ for improved enterprise communication.

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### ***Lattice3D XVL Converter Certified for Autodesk Inventor 10***

7 November 2005

Lattice3D™ announced that they have received certification by Autodesk® for their XVL Converter for Autodesk Inventor® Series 10.

With this announcement, Autodesk Inventor Series 10 users can adopt and use XVL and XVL applications for 3D Publishing and Communications. Lattice3D develops and markets 3D Communication and Publishing applications on a robust platform to enable the ultra-compression and then rapid use of 3D data assets downstream of design. 3D CAD models and designs can be used directly in print and online user and employee manuals, parts lists, maintenance instructions, assembly instructions, IETMs and more.

"Getting our partners, such as Lattice3D, to have their integrations certified with Autodesk Inventor is ultimately great news for our customers," said Richard Runnells, senior manager, Partner Programs at Autodesk. "Users can be assured that the same standards of product quality we want for Autodesk Inventor are being extended to the integration with the Lattice3D suite of solutions."

"The sales this year are evidence of a real thirst for 3D data downstream of design," said Alexander Garcia-Tobar, CEO, Lattice3D. "We are delighted to obtain Autodesk certification of our latest converter and thereby extend the Lattice3D capabilities to Inventor 10 users—in productivity terms what CAD did for design and drafting we can do for downstream users".

Lattice3D's solutions enable the rapid re-use of 3D CAD data for:

- 3D Design Review
- 3D Parts Lists
- 3D Procurement
- 3D Tech Documents
- 3D Training materials
- 3D Manufacturing Communications
- 3D Assembly Process definition
- 3D Quality Assurance
- 3D Packaging Design
- 3D Web Sites
- and more...

For more information on Lattice3D solutions and products, visit <http://www.lattice3d.com>.

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***Magma and ChipX Extend Integrated RTL-to-GDSII Design Flow to Next-Generation Structured ASIC Designs***

7 November 2005

ChipX, the structured ASIC leader, and Magma® Design Automation Inc., a provider of semiconductor design software, announced the availability of an RTL-to-GDSII design flow based on the Blast Create™ SA and Blast Fusion® SA integrated circuit (IC) implementation system that supports the new CX6000 Structured ASIC product line. This collaboration enables ChipX customers to deliver high-performance designs with USB 2.0 and PCI Express cores in as few as eight weeks.

“We worked very closely with Magma to optimize the CX6000 fabric and refine the flow to reduce structured ASIC development time and accelerate time to market,” said Ophir Nadir, vice president of Engineering with ChipX. “We’re now able to offer our customers a swift and seamless path from RTL to placed gates to final silicon that takes full advantage of Magma’s outstanding tool performance and our complete structured ASIC capabilities.”

“We’re committed to providing our customers with a wide range of design solutions that will support their performance, time-to-market and cost reduction goals,” said Kam Kittrell, general manager of Magma’s Logic Design Business Unit. “We’re pleased to work with the structured ASIC leader to deliver two innovative products and flows that offer our mutual customers a low-cost alternative to ASIC design, and that enables them to implement high-performance designs in record time.”

### *CX6000 Optimization with Magma Software*

ChipX used Magma software to develop the CX6000 products. Modeling and characterization of the CX6000 fabric was performed using Magma SiliconSmart®. By pre-characterizing the fabric for timing, power and signal integrity, ChipX enables users to shorten design cycles and improve chip performance and predictability. Blast Fusion’s automated power-grid synthesis was used to create and analyze the complete power grid of the CX6000 product family. The power grid is constructed of both pre-routed and configurable segments that are created automatically, and can be easily applied to new structured ASIC designs.

The lower layers of a ChipX Structured ASIC are filled with structured array cell elements – also known as a structured array fabric – including memory, I/O structures, analog macros and physical layer cores. Customer designs are implemented by interconnecting the fabric elements and various IP cores in the upper few layers of metal, drastically reducing ASIC development time.

ChipX stores a complete, detailed architecture and timing description of the new CX6000 family of USB 2.0- and PCI Express-enabled products in the Magma internal database. This allows designers to accurately analyze timing, and benefit from Magma’s ability to predict and solve complex signal integrity issues including crosstalk, IR drop, and DRC issues, as well as electromigration in power and signal lines.

By optimizing the CX6000 logic cell structure, clock networks and floor plan for Magma’s synthesis, placement and clock tree synthesis engines, designers can take full advantage of regular cell structures and available on-chip resources. The Magma solution also automates CX6000 RAM macro placement and filler cells are placed to reduce signal integrity issues.

### *About CX6000*

The new CX6000 family is built on ChipX's silicon-proven X-Cell architecture. This fine-grain, efficient architecture delivers higher gate densities and lower device costs when compared to programmable devices in smaller geometries. This new ChipX product family can be customized in 2, 3 or 4 layers of metal depending upon the customer's priority in terms of density and time to market.

The 24 devices in the CX6000 family offer densities ranging from 140K to 1.8M ASIC gates, up to 1.1Mbits of embedded SRAM and maximum operating frequencies up to 250 MHz across the die. Four on-chip, configurable, low-jitter PLLs support frequencies from 10 MHz to 1 GHz. USB 2.0 or PCI Express PHYs are built-in.

### *ChipX to Present at MUSIC Nov. 9*

On Nov. 9, Lior Amarilio, Chief Architect at ChipX, will present a paper at Magma's MUSIC users conference in Bristol, U.K. The paper is entitled, "A Methodology for Creating Structured-ASIC Master-Slices." The MUSIC conference is open to all Magma user companies. For more information, please visit <http://www.magma-da.com/MUSIC>.

### *Magma's Integrated Structured-ASIC Solution*

Structured ASIC vendors offer designers a set of embedded cores or devices with specific, customizable metal layers along with predefined metal layers, which can contain the underlying pattern of logic cells, memory, and I/O. By virtue of their predefined structures, structured ASICs drastically reduce risky and time-consuming tasks — such as test, signal integrity and IR drop. The programmable layers are often limited to a few last metal layers or a single via to further reduce cost and turnaround time.

With Blast Create SA, Magma combines ASIC-proven synthesis capabilities with structure-specific optimizations to deliver superior QoR and a highly predictable flow. Blast Create SA creates a structured ASIC floorplan of logic array and physical data to guide the entire implementation process. Unlike traditional logic synthesis tools, Blast Create SA maps directly to structured ASIC complex logic elements and on-chip hierarchical resources.

Blast Create SA and Blast Fusion SA include advanced physical synthesis technology that handles complex and specific physical-site constraints created by structured ASIC architectures. Blast Fusion SA's heterogeneous placement simultaneously places complex cell instances and variable-width hard IP macros such as embedded memory blocks to achieve an optimal solution. Initial placement followed by detailed placement and global routing is then used to produce highly predictable, high-performance, legalized structured ASIC placed designs. Magma's physical synthesis handles complex clocking constraints of structured ASIC pre-routed clock and power networks to take advantage of on-chip low-skew resources.

### *About ChipX*

ChipX, Inc. is a pioneer and leading manufacturer of late-stage programmable application-specific integrated circuits, or structured ASICs. The company's patented technology consolidates wafer production tooling, reduces time to market and minimizes the total cost to profit. ChipX Structured ASIC

technology is widely used in consumer equipment, computing peripherals, communication systems, industrial control, medical equipment, instrumentation and military/aerospace systems. Headquartered in Santa Clara, CA, ChipX is a privately held corporation, founded in the U.S. in 1989. A subsidiary, ChipX (Israel) Ltd., performs research and development. Investors include Elron Electronic Industries, Ltd. (NASDAQ:ELRN), VantagePoint Venture Partners, Wasserstein Venture Capital, Newlight Associates, Parker Price Venture Capital, UMC, Needham Capital Partners and Insite Capital.

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### **RuleStream Joins PTC Partner Advantage™ Program**

8 November 2005

[RuleStream Corporation](#) announced that it has become a member of the PTC Partner Advantage Program. As a result of the partnership, RuleStream will support Pro/ENGINEER with its rules-driven product management (RPM) software.

The integration, to be available spring of 2006, will make RuleStream's RPM solution accessible to PTC® users worldwide. With RuleStream's solutions, PTC® users will be able to capture intellectual property, speed up their new product design and product development processes, and engage in new quality metrics as a complement to their existing design-to-order solutions.

"RuleStream's products provide an effective extension to our solutions, and will offer significant value to our customers," said Carsten Hochmuth, Ph.D., director of the PTC Partner Advantage Program. "RuleStream and PTC together can help companies in the broad manufacturing arena improve efficiencies while addressing their intellectual property management needs."

"This agreement will offer competitive benefits to PTC customers that formerly did not have access to RuleStream's RPM products," said Robert Nierman, chief executive officer, RuleStream. "PTC's users will be able to realize the many benefits RuleStream's rules-driven technology provides, particularly for those engaged in design-to-order production."

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### **Synopsys' TetraMax ATPG Delivers Significant Productivity Gains for Designers**

8 November 2005

Synopsys, Inc. announced enhancements to the TetraMAX® test solution that provide designers with significant productivity gains for both automatic test pattern generation (ATPG) and test debugging tasks. Enhancements result in a typical speedup of four times (4x) or more in ATPG runtime performance across all design styles compared with the previous software release. TetraMAX ATPG also includes a new waveform debugger. Together, these new capabilities offer substantial productivity benefits for designers faced with the challenge of creating high-quality manufacturing tests for complex ICs.

Increased design complexities combined with stringent test quality requirements are driving the need to target manufacturing defects more efficiently. Designers can now take advantage of TetraMAX ATPG's 4x speedup in runtime performance to achieve higher test quality in a shorter amount of time. Designers gain additional productivity using TetraMAX ATPG's new waveform debugger, which lets designers debug test design rule violations and test protocols much more efficiently. These enhancements provide designers improved runtime performance and debugging capabilities needed to create the highest quality tests.

"Efficient test pattern generation helps minimize the time and effort it takes to deliver our advanced SoC and microcontroller solutions," said Osamu Tada, department manager of System Level Design and Verification Technology Department at Renesas Technology Corp., Japan's largest semiconductor manufacturer. "We are very encouraged that this significant ATPG run-time improvement has the potential to further reduce time-to-volume for our products."

"We observed more than a 6x performance speedup, compared with the 2004.12 release, when we ran the latest version of TetraMAX ATPG for transition delay tests," said Bruno Latulippe, DFT manager at Tundra Semiconductor Corp., which designs standards-based System Interconnect for use by the world's leading communications and storage system companies. "As the complexity of our product portfolio increases, we anticipate this substantial boost in ATPG throughput will help us expedite the time it takes to implement at-speed testing."

"Faster debugging reduces time-to-results, especially for circuits that utilize complex initialization sequences and scan protocols," said Graham Etchells, director of marketing, Synopsys Test Automation Business Unit. "TetraMAX ATPG's new waveform debugger helps designers quickly isolate and correct the causes of design-for-test problems that tend to create project bottlenecks."

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### **Synopsys Galaxy Design Platform Now Supports Composite Current Source Modeling Technology**

7 November 2005

Synopsys, Inc. announced Synopsys Galaxy™ Design Platform support for Composite Current Source (CCS) modeling technology. The unified CCS model extends the analysis and optimization capabilities within the Galaxy Design Platform to concurrently address nanometer effects and thereby reduce design margins and minimizing iterations.

"Using the CCS library models with the Galaxy Design Platform allows our customers to reduce design margins and improve productivity by taking advantage of the new voltage scaling and IR-Drop delay analysis capabilities," said Nobuyuki Nishiguchi, vice president, general manager, Development Department 1, Design Methodology Group, STARC. "With our continued collaboration with Synopsys, we have incorporated CCS modeling technology into our STARCAD-21 Synopsys-based production flow Version 2.5."

The CCS modeling technology offers a unified solution to account accurately and efficiently for important new effects in timing, noise and power that become significant in designs at 90-nanometers (nm) and below. Having to account for these nanometer effects by adding design margins leads to over-design and extra iterations that can significantly impact designer productivity. The Galaxy Design Platform is an open, integrated design implementation platform with industry-leading tools that can now take advantage of the comprehensive CCS modeling technology and help eliminate the need for extra design margins and speed design closure.

"Efficient design at 90 nanometers and below requires not only accurate nanometer modeling technology but also a world-class design platform that can fully utilize the capabilities of these models," said Antun Domic, senior vice president and general manager of Synopsys' Implementation Group. "With the combination of CCS modeling technology and the Galaxy Design Platform, Synopsys is leading the industry by providing the next leap in designer productivity."

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### **Synopsys Leads Industry with New Nanometer Modeling Technology**

7 November 2005

Synopsys, Inc. announced the availability of the industry's first unified current source model for accurate and efficient modeling of nanometer effects. Using Synopsys' Composite Current Source (CCS) modeling technology, designers are, for the first time, able to perform comprehensive timing, noise and power analysis using a single, open library model. Anchored by the industry's golden sign-off tool, Synopsys' PrimeTime® tool, CCS modeling technology extends sign-off to include noise and power effects that are required for today's nanometer (nm) designs.

Accurate physical IP models are essential for implementation and sign-off tools. With the move to 90-nm and below, many new effects in timing, noise and power need to be accurately modeled. Some of these effects are inter-dependent and can no longer be analyzed in isolation. CCS modeling technology allows designers to reduce design margin and deliver designs with higher performance, less area and lower power consumption. To speed adoption of CCS, Synopsys is providing a complete support system for library creation and validation including: open source Liberty™ modeling format, parsers, characterization/validation tools and guidelines.

"The ARM and Synopsys collaboration is focused on advancing design solutions based on open standards," said Neal Carney, vice president of Marketing, Physical IP, ARM. "CCS is an innovative, unified model that addresses the industry's advanced process demands and new design styles. In addition to advanced Liberty models currently available for ARM® Physical IP, we will be starting delivery of production CCS timing models for our Advantage™ and Metro™ 90-nanometer standard cell libraries in Q4 of 2005."

"For more than 15 years, Synopsys has led the industry in library modeling technology as well as in programs and initiatives for open source standards," said Antun Domic, senior vice president and general manager, Synopsys Implementation Group. "Our latest innovations in CCS modeling technology provide a comprehensive solution to address the immense modeling challenges of nanometer designs. Our

collaboration with industry-leading IP providers such as ARM will ensure that our mutual customers get access to the industry's most advanced design tools and libraries."

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### **3Dconnexion Boosts SpacePilot Performance for Autodesk Inventor**

8 November 2005

3Dconnexion, a Logitech company, announced a significant advancement to its innovative adaptive sensing technology, allowing the 3Dconnexion® SpacePilot™ 3D controller to detect and rapidly adapt to more than twenty-one environments for Autodesk Inventor®. As the user's workflow moves among environments and sub-environments within Autodesk Inventor, the SpacePilot automatically detects the workflow change, updates its function keys with new commands and displays them on its LCD screen. Default functions are provided for each environment, and the user can also customize the function keys by choosing from the entire set of Autodesk Inventor commands.

"We are very pleased with the workflow solution that 3Dconnexion is providing to the Autodesk Inventor community," said Richard Runnells, senior manager of Manufacturing Partner Programs at Autodesk. "The ability to sense so many environments and command sets, along with 3Dconnexion's navigation of assemblies, parts, drawings and other documents, makes SpacePilot an essential and fun tool for our users."

To provide the increased detection capacity and performance, 3Dconnexion has developed a new, sophisticated sensing mechanism and coupled it with switching-speed improvements. To enable user customization, 3Dconnexion has also developed a software tool that allows access to any Autodesk Inventor command and uses simple drag and drop for mapping commands to keys on the SpacePilot.

"During the course of my design work, I move rapidly and randomly from one environment (Assembly, Drawing, Sketch, Part) to another, and it is a great boost in productivity to see the SpacePilot keep up with my pace and always offer me the shortcuts I need," said Fernando Romero, project engineer, Sulzer Hickham. "It is as though it can read my mind and then keep up with my complex workflow."

The new capability is a significant power booster for Autodesk Inventor users—the user not only gets the benefit of simultaneous panning, zooming and rotating with the motion controller, but also benefits from an enhanced workflow through this advanced sensing and adapting mechanism and other SpacePilot features such as "quick views"—Top, Right, Left, Front, Iso—commands, which can be executed at the touch of a button.

The new advanced version of the SpacePilot software is available immediately on 3Dconnexion's website by downloading the 3DxSoftware package for Windows XP/2000. More information is available at <http://www.3dconnexion.com/AutodeskInventor>.

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### ***UGS Delivers Teamcenter for Microsoft SQL Server 2005***

7 November 2005

UGS Corp. announced that its Teamcenter® software fully supports SQL Server 2005, Microsoft's flagship database released today. The long-standing, strategic relationship between Microsoft and UGS has contributed to significant performance and scalability enhancements in SQL Server 2005, while enabling Teamcenter to take full advantage of those enhancements and remain one of the only comprehensive, enterprise-level PLM solution available with SQL Server.

“Working closely over the past several years with companies like UGS has directly contributed to Microsoft's ability to establish SQL Server 2005 as a leader in price/performance and enterprise data management — two central components to any PLM implementation,” said Mike Tuchen, general manager for SQL Server at Microsoft Corp. “As a result of this strategic relationship and Teamcenter's comprehensive support of SQL Server, companies of all sizes can effectively deploy the popular full-scale PLM solution at an affordable price.”

Technical teams from UGS and Microsoft began working together several years ago to ensure that companies seeking to implement Teamcenter on SQL Server 2005 would have a positive deployment and end-user experience. UGS is the only PLM supplier to work with Microsoft throughout all phases of development and testing to tune the performance of SQL Server and optimize its capacity. This has enabled SQL Server 2005 to efficiently and effectively scale to support the demanding workloads — which can include a very large number of users and transactions — typical of Teamcenter customers.

Teamcenter is used by product producing organizations around the world to manage the information and processes associated with the entire product lifecycle. Teamcenter is centered on addressing critical business initiatives such as new product development and introduction (NPDI), global product development and regulatory compliance. The effective management and execution of each of these business initiatives can have a profound affect on an organization's ability to drive profit and revenue growth from new and existing product lines.

“UGS and Microsoft share a common commitment to creating high performance software with superior quality that benefits the maximum number of customers,” said Steve Bashada, vice president of Teamcenter Applications, UGS. “With more than two million seats in production globally, Teamcenter serves as the enterprise collaboration backbone for companies worldwide seeking a comprehensive integrated digital product development and manufacturing process. Today's announcement will help ensure that Teamcenter remains an affordable, world-class PLM solution for all the businesses that have embraced the SQL Server platform.”

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### ***UMC Brings Comprehensive Reference Design Flow to 90nm SoC Designers***

9 November 2005

[UMC](#), a leading semiconductor foundry, announced the availability of a comprehensive reference flow for 90nm system-on-chip (SoC) designs. The silicon-verified, RTL-to-GDSII flow is based upon the foundry's proven 0.13um low-power design package (<http://www.umc.com/English/news/20050927.asp> as announced in September), and incorporates timing closure, signal integrity, and power closure features to help SoC designers overcome 90nm design-related challenges. Moreover, the added dimension of the latest design for manufacturing (DFM) rules, applied within the reference flow, provides designers with new capabilities to achieve accurate, first-time-right designs and shortened time-to-market.

Ken Liou, director of the IP and Design Support Division at UMC, said, "SoC designers today require proven design support solutions to help them overcome the challenges of 90nm and below technologies. The availability of our newest, comprehensive reference flow promises to help our customers navigate the most seamless path to 90nm silicon success by providing a feature-rich solution that is supported by the latest EDA tools and DFM methodologies."

The design flow focuses on improving DFM issues by applying DFM-aware technology files at strategic areas of the flow. DFM rules and technology data are incorporated into libraries in both front-end and back-end views; thus, the entire design flow has taken DFM into consideration.

To validate the 90nm RTL-to-GDSII flow, UMC utilized its 0.13um LEON2 CPU based technology demonstrator as a reference design to implement a top-down solution. Design for test (DFT) and design for diagnosis (DFD) elements are featured to ensure design accuracy. The reference flow is available now for download at <http://www.umc.com>.



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