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Acquisitions/Mergers

Visiprise Completes Merger With HMS Software

7 December 2005

CIMdata PLM Industry Summary

Visiprise, Inc. announced that it has completed its merger with HMS Software, Inc., making the merged company the industry leader in delivering integrated manufacturing operation solutions. Operating globally as Visiprise, the new footprint of the merged company provides a single source for manufacturers that require an integrated manufacturing environment.

Visiprise is now organized in industry business units (IBUs) creating more focus around the company's selected verticals—aerospace and defense, electronics, automotive and specialty vehicles, and medical devices. The combination of Visiprise's solution focused on high-volume and high-mix manufacturing environments with HMS Software's low-volume asset and labor- intense complex manufacturing processes is key to providing a complete offering to the world's largest manufacturers.

"As a company we can offer global manufacturers the ability to plan, define, control, execute and analyze manufacturing operations within a single environment that easily integrates into their overall manufacturing strategy," said Sean McCloskey, Visiprise president and CEO. "Visiprise is committed to the solutions and domain expertise that all of our customers have come to rely on as an integral part of their manufacturing operations. Our company recognizes the strategic value inherent to working with all segments of manufacturing customers."

Headquartered in Atlanta, Visiprise now operates business development, services and support presence on nearly every continent with key U.S. operations in Boston and San Diego, and international offices in Singapore, the United Kingdom and throughout Europe. To facilitate the transaction, Visiprise has closed on over \$30 million of new financing led by Investor Growth Capital and Westbury Partners. This financing also included participation from Visiprise's current investors RRE Ventures, Morgan Stanley Venture Partners, Canaan Partners, Wheatley Partners, Acorn Technology Fund and The Entrepreneurs' Growth Fund.

Visiprise is a provider of software solutions for integrating manufacturing operations. Visiprise solutions help customers plan, define, control, execute and analyze manufacturing operations in a single environment, to integrate with existing enterprise applications. Focused on aerospace and defense, electronics, automotive and specialty vehicles, and the medical device industries, more than 200 customers around the globe turn to Visiprise for improvements in operating costs, quality and manufacturing visibility. Customers include Action, BAE Systems, Boeing, Celestica, ConMed, E-Z-GO Textron, Lockheed Martin, Philips Lighting, Solectron and Thales Avionics. For more information, visit <http://www.visiprise.com/>.



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CIMdata News

“Visualizing Product Data” by John MacKrell, Senior Consultant, CIMdata

August 2005

Product Lifecycle Management (PLM) provides access to all kinds of product development information throughout the product development process. Just making information available and easily found provides only part of the value that PLM offers. The greatest benefits of PLM accrue when ...

To learn more, please visit http://www.cimdata.com/publications/article05-08_visualizing_product_data.html.

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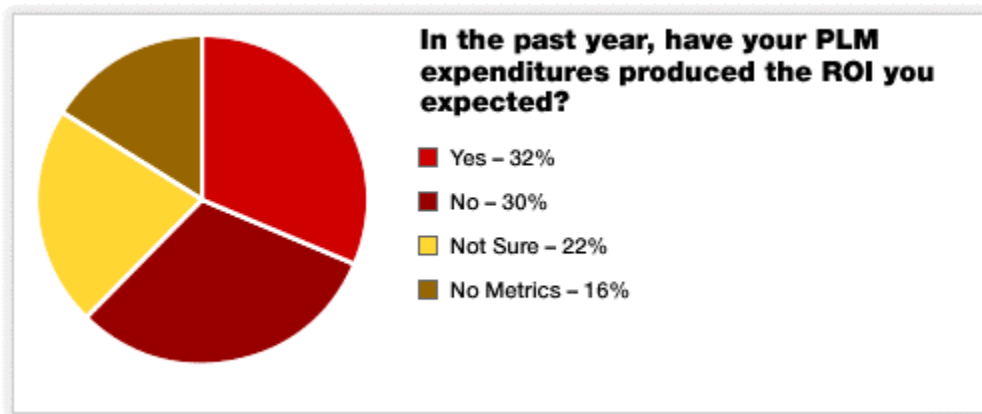
CIMdata Reminds You to Register Your Opinion on Your Company's Productivity Gains From PLM Investments

9 December 2005

Have your PLM investments resulted in productivity gains? Please [click](#) here to register your opinion.

Please note that the results of these polls are tabulated as you vote. The results are completely anonymous. If you are currently logged in your vote will not be connected to your personal information in any way. CIMdata respects your privacy and no personal data will be transferred as a result of voting in these polls. If you have a suggestion for a poll you'd like to see contact us at info@cimdata.com.

Our last poll surveyed whether you thought that your PLM expenditures produced the ROI you expected. Here is what you indicated:



NOTE: The results of these polls are anecdotal, not scientific.

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Company News

Aspen Technology Appoints John Bell as Senior Vice President, EMEA Operations

9 December 2005

Aspen Technology, Inc. announced that John Bell has been appointed to the company's executive team as Senior Vice President, EMEA Operations. Bell will have overall leadership of the EMEA organization, including responsibility for the sales and professional services teams and the regional support functions.

Bell joined AspenTech earlier in 2005 as head of sales for EMEA. He brings to the new position extensive senior management experience with enterprise-level software companies, including roles with full regional profit and loss responsibility. Prior to joining AspenTech, Bell served as EMEA Regional Director for MatrixOne, a leader in collaborative product lifecycle management solutions, where he drove a strong sales-oriented culture that led to a 300 percent revenue growth in fiscal 2003-4.

Bell previously served as Vice President, EMEA, for SAP Portals UK, where he created a new business sales and support team that helped to capture first place in the UK portal market. Earlier senior-level management roles included Vice President, Europe at Infinium Software, where he quadrupled license sales, and Middle East Regional Director for Oracle, where he was awarded the top growth award within his division. Bell has also held management positions at Information Resources and CPS Computer Group.

"The EMEA market remains a major focus for AspenTech, and we are strongly committed to delivering outstanding value and service to our many important customers there," said Mark Fusco, President and CEO, AspenTech. "John Bell's experience in building high performing sales and professional services teams will provide a solid foundation for supporting those customers, and for reinvigorating the growth of AspenTech's business across the region."

Bell holds a degree in Economics from Oxford Brookes University.

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AutoWeb Joins UGS JT Open Technical Review Board

8 December 2005

[AutoWeb](#) announced they have been appointed as the newest member of the Technical Review Board (TRB) for JT Open, a global initiative to promote the continued development and proliferation of UGS' JT technology as the PLM industry's standard 3D collaboration data format. This appointment is a great opportunity for both AutoWeb and UGS Corp.

AutoWeb will commence their involvement on the board by sharing stories of success at the UGS sponsored "Innovation is a Team Sport" event to be hosted on December 8th 2005 in Detroit. AutoWeb will share with the participants how it has been able to drive innovation into the industry by providing collaborative solutions for OEM's and suppliers alike.

"AutoWeb is pleased to be joining Caterpillar, DaimlerChrysler, Ford, GM, Renault, Siemens, UGS, Visteon, Actify, Alias, Opticore, Theorem Solutions and others as part of the Technical Review Board,"

says Nino DiCosmo, chairman, president and CEO of AutoWeb. "This appointment will allow AutoWeb to deepen our understanding of the PLM industry and become more involved with the industries that continue to adopt the JT technology as a standard."

Headquartered in the Detroit suburb of Rochester Hills, AutoWeb provides secure data management services to their community of more than 19,000 users at 2,500 companies in 38 countries around the world. AutoWeb works with some of the world's leading automotive manufacturers and their suppliers, including DaimlerChrysler, Ford, General Motors, Honda, Mitsubishi.

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CAD Schroer Wins PTC® “European Software Partner of the Year” Award

December 2005

CAD Schroer GmbH (CSG), the global engineering solutions provider whose STHENO/PRO™ drafting plug-in for Pro/ENGINEER® has enthused engineers at PTC/USER events throughout the world, was recently awarded the “European Software Partner of the Year 2005”. CAD Schroer GmbH is a PTC Gold tier Software Partner.

On October 25, 2005, PTC recognized the long-standing, committed relationship between the two companies in a ceremony on the last day of PTC/USER in Friedrichshafen, Germany. Brian Shepherd, PTC’s Senior Vice President for Product Management, awarded the official plaque to Detlev Kohley, CSG’s Sales Department Manager.

CSG, which this year opened new subsidiaries in the United Kingdom and France, has been a PTC software partner since 1998. The company has spent years co-developing products with PTC, and was praised for its commitment to providing solutions that work hand-in-glove with Pro/ENGINEER, Windchill® and Pro/INTRALINK®.

CSG has been showcasing its drafting plug-in for Pro/ENGINEER at PTC/USER events in the United States, Europe, and Japan. STHENO/PRO offers PTC customers demonstrable rewards, significantly broadening design options.

In addition to bi-directional data exchange, and the ability to work interoperably in real time with Pro/ENGINEER, STHENO/PRO delivers advanced data management support for Pro/INTRALINK and Windchill, including storage of design attributes, parts and title block information. Easy import and export of customer and supplier data is further augmented by the STHENO/IMAGE™ raster module—invaluable for integrating raster backdrops and reviving legacy 2D data. STHENO/PRO’s highly intelligent professional-grade drafting tools (including smart editing, 2D modeling, and assembly management) complete this time-saving productivity powerhouse.

“PTC and CSG have enjoyed a very successful, close and collaborative partnership for many years now,” said Carsten Hochmuth, Ph.D., Director of PTC Software and Technology Partner Programs. “We

especially value the company's commitment to PTC/USER. CSG has attended all the major world events in support of PTC solutions and we look forward to seeing the team again soon."

Detlev Kohley thanked PTC, as well as the PTC/USER organization, and praised the dedication and technical excellence of his colleagues back home. "Most importantly, I'd like to thank the users themselves," he continued." At CSG, we come from a strong engineering background, and our close relationship with customers and users, as well as with PTC, is key to the success of our product suites. That is why we spend as much time as possible speaking to end users: it is your input and enthusiasm which drives our development effort; your success stories which drive our success."

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CAD Schroer Partners with INAS to Bring Powerful, Integrated Drafting Support to Pro/ENGINEER® Customers in Romania and throughout the Balkan Region

December 2005

CAD Schroer GmbH (CSG), whose STHENO/PRO™ drafting plug-in for Pro/ENGINEER offers a powerful integrated data management solution, recently expanded its reach into the Balkans by concluding a reseller agreement with INAS, Romania's first wholly owned Research and Design Institute for mechanical engineering and IT consulting.

CAD Schroer GmbH (CSG), the engineering solutions provider known for its MEDUSA4™ and STHENO/PRO™ MCAD software suites, has a strong European presence with offices in Germany, France, Switzerland and the United Kingdom. "Offering local, friendly, and technically competent advice to our customers has always been our fundamental strength," says Michael Schroer, founding Director of the company that has grown from strength to strength since its beginnings as a CAD-based engineering services provider in 1986.

New Partners in Key Locations

Its extensive reseller network, which subscribes to the same ethos, already covers much of the globe, but there is plenty of room for growth in specific countries and market niches. "Our latest partner drive focuses on suppliers to Pro/ENGINEER® customers, who recognize STHENO/PRO as an unrivalled solution", Michael continues, "This month we are pleased to welcome INAS, a very professional and technically competent, rapidly expanding service provider in Romania, one of Europe's key locations."

About INAS

Romania, which became a member of NATO in March 2004 and joined the EU accession treaty in April of this year, is the largest of the Balkan countries, one of whose major exports is machinery.

INAS, which was established in 1991 and has its origins in the aviation industry, has offices in Craiova and Bucharest. An established technical consulting centre in the field of CAD/CAM/CAE, INAS provides design and engineering services and solutions for a wide spectrum of industrial applications,

from automotive and heavy equipment to nuclear and defense. They include production management and control, design, stress analysis, design optimization and engineering simulations. INAS also offers training and technical support for the implementation of integrated information systems.

“We are very excited about the new relationship with CAD Schroer,” explains Eugen Stefanianus, INAS’ Managing Director, “As a provider of Pro/ENGINEER, Windchill® and Pro/INTRALINK®, we see STHENO/PRO as the ideal drafting and data management solution for our Pro/E customer base. It replaces legacy systems that don't sit well with a company's overall product development strategy, offering one homogeneous data management solution. Then there is the added benefit of very powerful and intuitive drafting functionality, ideal for design tasks where 2D is more efficient and cost effective.”

INAS’ customers include some of the world’s most well-known car manufacturers, as well as the European Union. Closer to home, INAS works on projects for Romanian R&D, manufacturing and defense organizations.

"No matter which corner of the globe you visit, design engineers have much in common: they need competent advice, backed by reliable, efficient, integrated tools that work the way engineers do – freeing, rather than restricting, creativity." Michael Schroer concludes, "STHENO/PRO has managed to capture the imagination of customers throughout the world, precipitating our move for further expansion. We are always pleased to find partners who, as leaders in their field, share our passion for friendly and competent customer support, providing real added value to any systems implementation.”

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DataCore Technology Develops Strategic Partnership with Hyland Software

6 December 2005

DataCore Technology, a specialist in implementing electronic document management systems, has formed a strategic partnership with Hyland Software, Inc., developer of the OnBase® enterprise content management software suite. The addition of OnBase, which includes core capabilities in document imaging and management, workflow and records management, will allow DataCore to expand their expertise into numerous new industries, addressing the specific requirements for each market.

DataCore Technology provides complete solutions by integrating operating system, application and enterprise software, and strategic services. For that purpose, the company believes it is important to maintain partnerships with carefully selected, industry-leading software manufacturers and service organizations. According to DataCore’s President, Brian Sallade, “We are now able to diversify our product offerings and meet the needs of companies in a wider variety of markets. This partnership with Hyland Software enhances DataCore’s confidence that we are providing the best possible solutions to our customers.”

Hyland Software is equally enthusiastic about the newly formed partnership. “We are proud to have DataCore Technology representing the OnBase solution,” says John Fox, Director of US Channel Sales at Hyland Software. “We believe this partnership will accelerate the acceptance and use of OnBase by companies of all sizes in new and existing industries. Because DataCore shares Hyland’s commitment to

provide premium service and support to our customers, this partnership will prove to be highly advantageous for all those involved.”

About DataCore Technology

DataCore Technology specializes in implementing Electronic Data Management solutions for energy, government, manufacturing, and pharmaceutical organizations to help improve time to market, reduce asset maintenance costs, and comply with government regulations. For more Information, please visit <http://www.data-core.com/> or call (800) 531-2287.

About Hyland Software, Inc.

Hyland Software, Inc., established in 1991, is a provider of rapidly deployable enterprise content management software. Hyland develops OnBase, enterprise-class software that combines integrated document management, business process management and records management in a single application. OnBase allows organizations to manage digital content, including scanned paper documents, faxes, print streams, application files, electronic forms, web content, multi-media files, and emails. OnBase is used by businesses and government agencies to automate business processes, reduce the time and cost of performing important business functions, improve organizational efficiency and address the need for regulatory compliance through the management, control and sharing of digital content with employees, business partners, customers and other constituencies. Visit <http://www.onbase.com> for more information.

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Former SmarTeam President Joins Actify to Head EMEA Sales; Industry Veteran Brings More Than 20 Years' Experience to Rapidly Expanding EMEA Market

5 December 2005

Actify Inc. named its new vice president for EMEA sales. Effective immediately, Christopher Kenneth Jones joins the company as vice president of EMEA Sales and is responsible for expanding Actify's EMEA operations and increasing revenues. He will play a leadership role in guiding the company's strategic direction and business practices in EMEA to meet the increasing customer demand for Actify solutions within this market.

"Actify is experiencing a significant increase in new customers and business opportunities within the EMEA region, and Jones' extensive background in PLM sales and marketing within the manufacturing industries brings another level of sales leadership to our company," said Randy Ochs, president and CEO of Actify Inc. "His appointment not only reflects a growing record of successful solutions, but also represents our commitment to building and maintaining long-term relationships with our customers, channel and technology partners in the EMEA region. We're very pleased to welcome someone with Jones' experience to our growing European team."

"I am excited to be joining the Actify team at a time when the organization is expanding its commitment to EMEA. With a broad and extensive range of digital design & communication solutions for the high technology, automotive, aerospace, industrial automation and discrete manufacturing industries, Actify is strongly positioned for further growth in Europe, Middle East and Africa," said Chris Jones. "Throughout the region there is increasing momentum for greater network convergence, and the evolution of digital

design communications to next generation workgroup solutions presents a tremendous market opportunity for Actify's innovative solutions."

Jones has more than two decades of global managerial experience in sales, marketing and design in the manufacturing and construction industries. Before joining Actify, he was president of Dassault's SmarTeam Europe Ltd. and was responsible for the successful and profitable turnaround of SmarTeam's EMEA business—improving channel efficiency by over 350 percent in three years. While in this leadership role, he also accomplished the first \$1 million SmarTeam order.

Prior to SmarTeam Europe Ltd., Jones was general manager at Engineering Animation Ltd., one of the fastest-growing companies in the Product Lifecycle Management (PLM) market, and managing director of Division Group PLC., where he helped increase software revenues by \$0 to \$6.5 million over four years and formed profitable direct sales offices around Europe. Additionally, Jones has held various sales and sales management positions in Europe and Asia at EDS, a global provider of business and technology solutions to help clients improve their business performance. Chris Jones holds a degree in Engineering from the University of London and is a member of the Institute of Civil Engineers M.I.C.E.

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GCS Steps Up North American Operations for Conisio PLM Software

December 2005

As part of their continuing strategy to further penetrate the North American PLM market, GCS Scandinavia has designated its top VAR in the world, d2m3 as Conisio Channel Development Partner to support the expanding dealer network in the US, Canada and Mexico.

Conisio is the first and only commercial engineering document management system entirely integrated within Windows Explorer. The system supports any application running on a Windows-based computer including CAD and all Microsoft Office programs such as Word, Excel, PowerPoint, Project, and Outlook. The software is tightly integrated with the most popular design packages: SolidWorks, Inventor, AutoCAD, Solid Edge and MicroStation. Users perform all functions through Windows Explorer or one of its other integrations. This familiar look and feel results in early user acceptance, minimal training, quick implementation and short return on investment. Because of these advantages, Conisio is one of the easiest and most affordable ways to implement product data management (PDM) and related product lifecycle management (PLM) initiatives.

The leading Conisio VAR worldwide, d2m3 is headquartered in the UK and has offices in London, Boston and San Diego. The firm specializes in PLM and business process management for large-scale multi-national implementations, thus bringing extensive experience and resources in its new role of Channel Development Partner to support Conisio resellers in the North American market. Industry sectors in which d2m3 has operated reach beyond manufacturing to include construction and architectural companies. The firm's broad industry experience plus tools such as a global on-line pre-and post-sales technical support system they developed will be of considerable value to North American resellers.

CIMdata PLM Industry Summary

In a move to focus support on North American resellers, d2m3 recently appointed industry veteran Patrick Brochu to the position of Vice President Business Development, North America. Formerly with Dassault Systemes, Brochu is based in the Boston area and has been active with major players in the PDM/PLM industry for more than ten years experience he will bring to the already strong presence of Conisio in North America.

"I welcome this opportunity to assist resellers in further promoting Conisio for an ever-widening customer base in North America," says Brochu. "The software is perfectly suited to the large, mostly-untapped mass market for PLM: companies looking for practical functionality, ease of use, and low total cost of ownership." He notes that Conisio implementation costs are lower and software license fees are about half those of most competitors, so overall cost is significantly less than traditional PLM and document management systems.

"With his outstanding credentials and market insight, we are pleased to have Brochu on the Conisio team and to designate d2m3 as our Channel Development Partner in North America," says GCS President Kenneth Hallberg. "They have done outstanding work in PLM and will definitely be an invaluable asset in supporting our expanding network of resellers."

Hallberg explains that as part of their continued market penetration strategy, GCS added three new Conisio resellers in North America in June, 2005 and has most recently included a further trio: CADD Edge (<http://www.caddedge.com>) for the New England states, CADimensions (<http://www.cadimensions.com>) in upstate New York, and CAE Northwest (<http://www.caenw.com>) in the Pacific Northwest territory. Like all other GCS value-added resellers in North America, the newest additions are ranked among the top SolidWorks dealers in their regions. The addition of these companies to the Conisio channel brings the total number of North American resellers to 13, plus another 25 in Europe, South America and the rest of the world.

"Continued expansion of our reseller network and partnering with d2m3 as Channel Development Partner demonstrates our strong commitment to a growing user base and confirms the importance of the North American market in plans for widening our global coverage," says Hallberg. "Through such investments in customer support and quality service, we remain close to companies as they implement Conisio as one of the easiest and most affordable ways to manage technical information and share it throughout the enterprise.

About GCS

Conisio is developed and supported by GCS Scandinavia AB (<http://www.conisio.com>), a Swedish-based software provider. First released in 1999, Conisio has been enhanced with additional capabilities and is used for document management by companies around the world including Tetra Pak, SAAB, W.L. Gore and F.L. Schmidt. To achieve seamless integration between Conisio and world-class software, GCS has long-term partnerships with leading software companies such as Microsoft, SolidWorks and Autodesk. For more information, contact Kenneth Hallberg, President of GCS Scandinavia at 011 46 8 744 4300 kenneth.hallberg@gcscad.se.

About d2m3

With more than ten years of experience in information management, d2m3 (<http://www.d2m3.com>) specializes in implementing PLM systems and business process solutions. Clients include a wide range of companies in manufacturing, construction and architecture. Solutions and services center on the Conisio system aimed at rapid implementation, fast return on investment, and increased personal productivity for everyone across the organization. The contact in North America is d2m3 Vice President of North American Business Development Patrick Brochu at 603 463 5880 patrick.brochu@d2m3.com.

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MSC.Software Appoints Andrew Meyer as Vice President of Corporate Marketing

6 December 2005

MSC.Software Corp. announced the appointment of Andrew Meyer, an experienced enterprise software executive, as the vice president corporate marketing.

"As MSC further strengthens its senior management team, I am very pleased to announce Andrew Meyer, a highly seasoned enterprise software executive, as our new vice president of corporate marketing," said Bill Weyand, chairman and CEO, MSC.Software. Andy's track record of enterprise software accomplishments bring a new level of expertise to his role at MSC and will drive our objective of becoming the market-driven, leading enterprise VPD solutions provider. His wealth of marketing knowledge and strategic insight of the enterprise software industry further expands the collective skill set of the new MSC executive team and I am pleased to have a proven industry leader join us in this important corporate role."

Mr. Meyer has over 20 years of senior marketing and management experience with software and technology-based companies. He joins MSC from Worksoft where he served as vice president of marketing. During his tenure, he successfully led product strategy, product management as well as marketing communications. Prior to Worksoft, Andrew spent four years at Websense as their vice president of marketing where as a senior member of the management team they became the dominant leader in their market—growing revenue from \$17 million in 1999 to more than \$110 million in 2003. His tenure also included the introduction of a business model that led to one of the most successful IPOs of 2000. His prior experience includes serving as vice president and general manager of the manufacturing systems division and vice president product marketing for Epicor Software. Andrew was also the director of product marketing at Sales Technologies and Scientific-Atlanta. Mr. Meyer began his career as a mechanical engineer for McDermott International. He holds a master's degree in business administration from the University of New Orleans and a bachelor's degree in mechanical engineering from the Georgia Institute of Technology.

"With more than twenty years of senior management experience in the software industry, Andy will be responsible for the company's worldwide marketing program and will focus on delivering the next generation of enterprise analysis and simulation management solutions to market," said Glenn Wienkoop, president and chief operating officer, MSC.Software. "Andy has the experience, breadth and vision that will help drive the marketing organization to new heights as we lead MSC to become a world-class provider of integrated enterprise VPD solutions. I'm confident that this addition will accelerate MSC's

market leadership and further capitalize on the solid momentum our business has demonstrated. Andy is a strong and very welcome addition to MSC."

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Mystic Management Systems, Inc. Appoints Chief Technology Officer; Seasoned Technology Executive Joins Document Control and Product Lifecycle Management Software Provider

30 November 2005

Mystic Management Systems, a developer and service provider of document control and specification management applications, announced that it has appointed Matthew J. Santacroce to serve as Chief Technology Officer. His responsibilities include the leadership of strategic product development, application development, data management, technology infrastructure, and the customer support center.

Santacroce joins MMS from Pfizer, Inc. where he served from 1997 as a Global Program Manager in Global R&D Research Informatics. Matt holds a Bachelor's Degree in Computer Science from Southern Connecticut State University, a Project Management Professional certification from the Project Management Institute and is finalizing his Master's Degree in Computer Science from the University of New Haven.

"Matthew Santacroce is an outstanding executive with a distinguished track record of running highly efficient, technical operations for complex organizations," states Robert T. Sullivan, president of Mystic Management Systems, Inc. "He will serve as a key leader in enhancing the effectiveness of our technical product development operations and in helping to drive MMS' continued growth."

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Rand Worldwide ® Launches First CATIA User Knowledge Profile

8 December 2005

RAND A Technology Corporation, operating as RAND Worldwide, announces that its Education Services division has added a new User Knowledge Profile (UKP) for CATIA V5 to its existing PLM Knowledge Inventory Product offering.

RAND Education Services' CATIA V5 UKP is an online evaluation tool designed to assess a user's proficiency with the software through hands-on tasks and multiple-choice questions relating to topics such as sketch, feature, and assembly creation. The tool is an ideal solution for organizations and individuals looking to evaluate their program knowledge and to further define a customized training path in order to increase software utilization and enhance productivity in the workplace.

"The adoption rate for CATIA V5 is rapidly increasing," said Joe Oswald, Executive Vice President, RAND Worldwide. "Our goal as a leading Dassault Systèmes Certified Education Partner is to assist

engineers in utilizing their CATIA V5 software programs more efficiently to enable them to make more innovative products. The UKP is a valuable tool that will assist our customers to better understand their product skill levels so they can take the proper steps to become more proficient in their software usage.”

When a UKP is completed users and their managers are provided with detailed reports outlining overall proficiency results and individual performance profiles, along with a focused training plan to address areas of improvement with targeted learning recommendations. RAND’s targeted learning and knowledge inventory products are developed by its ASCENT – Center for Technical Knowledge® division. All content is available via the Internet to give users the flexibility of acquiring the skill sets they need to learn in a self-paced, online learning environment.

Additional Knowledge Inventory Products are offered by RAND including User Quizzes and User Skills Surveys for Autodesk®, Dassault Systèmes, and PTC® software. The User Quizzes give software users the ability to measure their current knowledge of core software functionality by answering a series of technical questions. The User Skills Surveys allow users to rate their current knowledge of core functionality for their software applications to identify skill gaps before proceeding onto advanced training.

In addition to its Education Services, RAND Worldwide offers a portfolio of internally developed software products, software development, and Product Lifecycle Management consulting and implementation services.

For additional information about RAND Worldwide and its professional services, please visit <http://www.rand.com>.

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Events News

Delcam to Host Free Composites Workshop at Autosport Show

December 2005

Delcam is to host a free workshop on the latest developments in CAD/CAM systems for the design and manufacture of composites at the NEC, Birmingham, on 12th January 2006, the opening day of the [Autosport Engineering Exhibition](#). The workshop will show how these systems can help autosport companies that use composite parts to improve quality, boost productivity and reduce lead times.

The workshop will show how Delcam’s PowerSHAPE CAD system can be used to create pattern and tooling designs from component designs, and to generate 2D patterns from 3D CAD models of parts. The latest five-axis machining techniques will also be covered, both for the production of patterns or moulds, and for the trimming and drilling of components.

PowerSHAPE can read data from all the main CAD systems and also supports industry standard formats such as IGES and STEP. The software includes a wide range of tools to repair imported files, for

example, replacing missing surfaces, adjusting trimming and adding fillets, and then to convert product designs into tooling designs.

The methods for the generation of 2D patterns from 3D CAD models provide quick and easy ways to create prepreg designs, even when manufacturing complex, curved shapes. The 2D patterns can then be arranged to give the most cost-effective use of material with special nesting functionality within the software before being passed to the cutting machine.

The range of five-axis machining methods in Delcam's PowerMILL CAM software gives the user better control over cutting conditions as well as helping to minimize any excessive movement of the machine head that can lead to longer machining times. Five-axis drilling has recently been improved to give faster drilling and more comprehensive hole recognition from a wider range of CAD systems.

As well as incorporating comprehensive gouge protection, PowerMILL's machining simulation option offers collision checking between the various parts of the machine tool and the model. The simulations will also indicate any areas where the machine tool is attempting to move outside its operating parameters, again helping to ensure that the program will perform correctly on the computer before it is passed to the factory floor.

Companies within the autosport industry already using Delcam's software include ATR Group, pioneers of the use of carbon fiber-reinforced plastics in autosport, Centro Ricerche Cagiva, the research centre for the Cagiva, Agusta and Husqvarna brands, and ZYTEK, the manufacturer of all engines for the A1 Grand Prix series.

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Delcam to Show Complete Product Development at Southern Manufacturing

December 2005

Delcam will demonstrate its complete range of product development software at the [Southern Manufacturing](#) exhibition to be held at Thorpe Park on 8th and 9th February. On its section of the GTMA stand, the company's experts will demonstrate how its Power Solution CAD/CAM systems can help manufacturers to develop more sophisticated designs more quickly and to a higher quality.

Delcam's Power Solution allows users to boost productivity, improve quality and reduce lead times, and so increase profitability at every stage, from the creation of a concept design through to the manufacture and inspection of prototypes, tooling and sample components. The high degree of automation at all stages speeds up routine operations, increases accuracy by reducing the possibility of mistakes, and leaves more time for creative and skilled work.

Delcam is unique among CAD/CAM suppliers in offering its software either as a complete solution, including customization to meet specific requirements with templates, macros and Visual Basic programming, or as a series of best-in-class stand-alone products. The company can provide a comprehensive design through manufacture system for companies that are new to CAD/CAM or that are

looking to replace old or obsolete software. Alternatively, Delcam can also supply individual programs for companies looking to increase the performance of their existing system or to remove bottlenecks in their design and manufacturing processes.

At southern Manufacturing, Delcam will give particular attention to its patented Total Modelling approach to product design and to its PowerMILL CAM system. Total Modelling allows logos, textures and other decorations to be incorporated into standard designs more readily to help reinforce branding of products. Modification of complex designs is much faster and easier, making it possible to create a greater selection of alternatives when presenting proposals for new designs. Similarly, updating existing designs, for example, when producing a modified toy for a new marketing promotion, can be undertaken more quickly.

Key enhancements in the latest release of PowerMILL include a new 2D Machining Wizard that enables quicker and easier generation of 2D and 2½D toolpaths, new drilling templates for faster creation of drilling routines, improved machining of flat areas, new plunge milling options, and more versatile swarf machining methods.

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Delcam to Show Latest Aerospace Machining Methods at Aerospace Asia

December 2005

Delcam will demonstrate its latest developments in five-axis machining and adaptive machining on the Society of British Aerospace Companies stand at the [Aerospace Asia](#) exhibition to be held in Singapore from 21st to 26th February. The new techniques are based on Delcam's combination of expertise in software for both machining and inspection, which has been built up over many years of development of PowerMILL and PowerINSPECT.

Following the recent release of PowerMILL 6, Delcam now offers an extensive set of strategies for both positional and continuous five-axis machining of aerospace components. The full range includes machining through a point or to a point, or to or from a line or curve; programming using a reference surface; swarf machining; and five-axis trimming, pocketing and drilling.

For all the options, PowerMILL makes programming much easier than is possible with the more complicated software traditionally used in the aerospace industry. This combination of flexibility and ease of use has enabled the software to be used successfully in a wide variety of applications, including the manufacture of complex blades, blisks and aerostructures, finish machining of engine ports and pumps, and trimming and drilling of composite components.

Recent additions to the range of strategies includes the ability to program swarf machining with tapered tools. These types of tool are especially useful when machining undercut areas as they avoid the need to use a long, thin tool for finishing that would otherwise be needed. In addition, they allow more material to be removed than a tipped cutter, with less risk of rubbing on adjacent surfaces.

For all its five-axis machining options, PowerMILL incorporates automatic adjustment of tilt angles for both lead and lean (Lead is measured in the cutting direction; lean at right angles to the cutting direction.). Control of lead angle gives better cutting conditions, while the lean angle can be used to avoid collisions.

PowerMILL also includes many safety features to ensure that five-axis machining can be programmed easily and efficiently, without any risk of gouging. Furthermore, the machine simulation option for PowerMILL includes collision checking between the various parts of the machine tool and the model, as well as ensuring that the machine does not attempt to move outside its operating limits.

An important advantage of five-axis machining with PowerMILL is that the software works with the full range of different cutting tools, including end mills, tapered tools, and ball-nose, tipped-radius and off-centre, tipped-radius cutters. Many of the other systems currently available are limited to using only ball nosed and end mill cutters, which are not always the most efficient.

Delcam's unique set of adaptive machining techniques allow successful production and repair of the most complex components, by using in-process measurement to close the information gaps in the chain of operations.

The most common applications are those where the exact position of the workpiece on the machine tool bed is unknown. With larger components, achieving the correct position and orientation of the stock is a major challenge, taking many hours of checking and adjustment.

It is often easier to adjust the datum for the toolpaths to match the position of the workpiece, than it is to align the stock in exactly the desired position. This approach has been used in the machining of geometric features for some time. Delcam now offers an equivalent solution for the manufacture of complex shapes and surfaces that gives the same benefits of shorter set-up times and improved accuracy.

Adaptive machining can also be applied when the exact starting shape is unknown following near net shape manufacturing processes, like casting and forging, or imprecise repair techniques, such as welding. The main requirement here is to allow an even distribution of material to be removed around the stock to avoid over-machining in some areas and under-machining in others. Other benefits include the ability to give a smooth transition between machined and un-machined areas, a reduction in air cutting and improved control over the feed rate as the cutter enters and leaves the material.

The most challenging adaptive machining operations are those where the precise final shape of the component is unknown. This usually is needed when undertaking repairs to components that have been changed from their nominal CAD shape during service, for example, turbine blades that have been distorted by the high temperatures in aircraft engines.

The initial stage in these cases is to probe the component to determine the extent of its deviation from the nominal CAD data. Then, the morphing functionality in Delcam's PowerSHAPE hybrid modeler can be used to bring the CAD model into line with the actual geometry. Finally, toolpaths can be generated with PowerMILL for the areas to be machined.

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DesignCon 2006 Kicks off New Year with Leading Companies and Visionaries in Electronic Design

7 December 2005

The International Engineering Consortium's (IEC) DesignCon 2006 conference and exhibition kicks off the new year this February 6-9, 2006 with an expanded show floor, new educational programs, expert speakers, product awards, and association partners presenting the latest advancements in semiconductor

and electronic design engineering at the Santa Clara Convention Center with official host sponsor Agilent Technologies.

DesignCon 2006 serves as Silicon Valley's premier annual conference and exhibition, addressing the industry's most critical business and technical issues while bringing together thousands of design engineers, their managers, and executives for educational and networking opportunities.

Industry leaders sharing their knowledge at the event include keynote speakers Brian Halla, Chairman of the Board and CEO, National Semiconductor; Justin Rattner, Intel Senior Fellow, Director, Corporate Technology Group, Intel Corp; and T.J. Rogers, Founder, President, CEO, and Director, Cypress Semiconductors. Additional speakers include John Bourgoïn, President and CEO, MIPS Technologies; Carl Guardino, President and CEO, Silicon Valley Leadership Group; Dennis Harmon, President and CEO, Zenasis Technologies; Kathryn Kranen, President and CEO, Jasper Design Automation; Christopher Rowen, President and CEO, Tensilica, Inc.; Gabriele Saucier, Chairman of the Board, Design and Reuse S.A.; and Belle Wei, Dean, San Jose State University.

New in 2006, the IEC introduces the DesignCon Management Forum. Featuring two days of panel sessions led by senior managers and executives, the forum addresses critical business and strategy issues of concern to those responsible for directing the design process.

DesignCon 2006 also hosts several co-located events, including the Si2 OpenAccess Coalition Conference and the IBIS Summit.

In addition, the second annual DesignVision Awards Ceremony recognizes technologies, applications, products, and services judged as the most unique and beneficial to the industry, many of which the exhibition floor will showcase.

To align with market trends, exhibition pavilions featuring PCB technology, semiconductor and IP technology, verification technology, and emerging technologies also occupy the floor.

DesignCon 2005 hosted more than 110 exhibiting companies and drew nearly 5,000 industry professionals to register. This year, with more than 100 sessions and tutorials, and more than 200 industry leaders to speak, DesignCon 2006 expects more than 125 companies to exhibit and more than 6,000 industry professionals to register.

Please visit <http://www.designcon.com/2006>.

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EdgeCAM Puts Manufacturers in Pole Position

December 2005

Pathtrace will be demonstrating its EdgeCAM offline CNC programming software at the [Autosport Engineering](#) show held at the NEC in January 2006.

EdgeCAM is used extensively by companies supplying the Autosport industry where fast turnaround of manufactured parts is essential. EdgeCAM helps streamline the manufacturing process with continual improvements to features and functionality designed to reduce programming time and improve production efficiency.

Machine simulation

EdgeCAM Simulator now offers full machine simulation. For lathe programming fully detailed tools, turrets and other devices such as tailstocks and steadies can be displayed with full movement through the machining session, helping to avoid expensive collisions, optimize the cutting process and reduce cycle time.

All aspects of the machine tool are defined with easy-to-use graphical tools and can be configured for any machine type including mill/turn lathes and 5-axis milling machines.

Machine simulation is one of the most important preconditions for ensuring safe operations when performing 5-axis machining, helping to visualize the machine tool movement when making rotary movement. This is of critical importance as, in many cases, a small change in tool orientation can result in a large rotary movement.

5-axis machining

Also at the show, Pathtrace will be previewing EdgeCAM's new multi-axis machining functionality. A comprehensive range of simultaneous 4 and 5-axis strategies meets the production machining requirements of industries such as aerospace. 5-axis strategies include swarf cutting for machining variable taper walls and sophisticated multi-surface finishing, while 4-axis simultaneous machining targets complex rotary applications such as camshafts and blades. All new machining strategies will be available for both mill and B-axis mill/turn machine configurations and fully support solid and surface geometry.

Both new capabilities build on recent EdgeCAM releases and thus rely on proven technology. EdgeCAM is a complete solution for milling, turning, mill/turn, advanced solids and freeform machining and solid modeling.



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Geomagic Introduces Geomagic Blade, Purpose-Built for Turbine Blade Inspection

6 December 2005

Geomagic is demonstrating Geomagic Blade, the first software extension developed specifically for turbine blade inspection, at [Power-Gen International](#) in Las Vegas. Geomagic Blade is purpose-built to satisfy the need for greater ease of use, speed and quality in all areas of turbine blade inspection, including aerospace, turbine-generated power grid, propulsion turbines, specialized compression equipment, and others.

Geomagic Blade extends Geomagic Qualify computer-aided inspection (CAI) software to provide special features that have been tested and verified by leading turbo-machinery companies such as GE Power Systems, Honeywell, Howmet, PCC Airfoils LLC, Pratt & Whitney, Solar Turbines, Siemens and others. Geomagic Qualify automatically processes scan data from a physical part, enabling instant graphical comparisons between CAD models and as-built parts. It is used for first-article inspection, tool validation, wear analysis, object alignment, GD&T, and reporting.

"Geomagic Blade provides buttons for automatically analyzing many of the properties that are at the heart of turbine machinery inspection," says Rick Skelley of PCC Airfoils LLC, a leading manufacturer of aircraft engine blades and vanes, and industrial gas turbines. "The new functionality is nicely integrated with Geomagic Qualify and is right on the mark for the turbine machinery industry."

Automated turbine blade inspection

Geomagic worked in cooperation with leading companies in the aerospace, turbine and power-generation industries to develop functionality that makes it easier and faster to inspect and analyze turbine blades.

In testing conducted with leading turbine blade manufacturers, Geomagic Blade has proven superior to traditional inspection in three important ways:

- generating reproducible test results based on 3D models derived from millions of points, which increases test confidence and complements traditional CMM analysis;
- increasing inspection and analysis speed by collecting data with non-contact scanners and processing it with patented technology from Geomagic Qualify; and
- providing easy access to dedicated functions that test critical turbine blade attributes and automatically generate numerical and graphical reports of results.

Geomagic Blade includes new alignment techniques designed specifically for turbine blade inspection. A line target datum simulates surface contact with the cylindrical sidewall of a pin. This enables users to align with edge-to-pin contact that is typically used for turbine blade analysis.

Blade section analysis within Geomagic Blade provides graphical inspection for airfoil characteristics such as mean (camber) line, max thickness, leading-edge and trailing-edge radii, thickness at offsets from the blade ends, chord lengths (axial, max and parallel), and twist angles.

Geomagic Blade also includes 2D twist analysis, which in the past has been difficult to accurately analyze using the limited point data from CMM. The software allows a cross section of a model to be aligned with reference data to determine the twist of the blade. Constraints can be placed on maximum rotation and twist tolerance.

Complete turbine machinery solutions

Geomagic Blade is part of a complete set of digital shape sampling and processing (DSSP) tools for the turbine machinery industry. It is an extension to Geomagic Qualify, the world's number-one selling CAI software. Geomagic Studio software is the leading solution for reverse engineering, fabrication and refurbishment of as-built components, and provides more accurate models for computational fluid dynamics (CFD) and FEA simulation. Geomagic Review, downloadable for free, enables team sharing of analysis results for e-collaboration and quick decision-making throughout the extended enterprise.

"DSSP from Geomagic signals a shift from slow, manual tools requiring a great deal of expertise, to fast, automated processes that increase test and analysis coverage per blade and assembly," says Alberto Griffa, senior product manager for Geomagic Qualify.

Available now

Geomagic Blade is available now in English, German, Chinese, Japanese and French languages from [Geomagic](#) and its worldwide distributors.

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Is Managing Your Engineering Data Frustrating? Come to the Avatech Solutions Webcast

When: Tuesday, December 13th

10:00 a.m. EST or 2:30 p.m. EST

Details:

If you've ever recreated a design from scratch because you couldn't find a reusable version, had someone copy over your work, or been frustrated by Autodesk Inventor's "Resolve Link" dialog box—you know there has to be a smarter way to find, manage, reuse, and protect your engineering designs.

Join us for our data management webcast series, where we'll show you how to harness your growing amounts of engineering data with Autodesk Vault and Productstream. You'll see how these solutions provide a smarter way to work by helping you:

Save time by reusing proven designs. Avoid rework and focus on creating new designs by reusing assets created by engineers in your organization.

Find what you need faster. See how Vault helps you quickly find the design you need by letting you search on the info stored about each file—not just the filename.

Protect your work in progress. With Vault's secure check in/check out process, you'll know you're working on the latest and most accurate version, and can easily figure out who is working on a revision—and when and why.

Share and control the right version downstream. With Productstream's release management capabilities, you can share your data and track bills of materials and change orders with other departments in the manufacturing process—all while maintaining control over the right version.

You already own Vault – What have you got to lose by learning what it can do for you? Only everything that's holding you back from faster time-to-market, to significant improvements to your efficiency and productivity. Join us and see Autodesk's data management solution in action, with plenty of time to ask questions and interact with our expert.

Note: This event is only for Autodesk users in the United States.

Registration: Click [here](#) to register.

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MatrixOne to Host Environmental Compliance Seminar for the Electronics Industry

5 December 2005

MatrixOne, Inc. announced that it will be hosting a free half-day conference focused on the latest environmental compliance regulations and how electronics companies are affected by existing and newly emerging regulations as they relate to their product development lifecycles.

This event, co-sponsored by Tetra Tech and Environmental Monitoring and Technologies, will examine the new environmental regulations coming out of the European Union, such as the Waste Electrical and Electronic Equipment (WEEE), Restriction of Hazardous Substances (RoHS) and End-of-Life Vehicle (ELV) regulations, as well as current regulations being implemented worldwide by various other countries and organizations.

Mike Zepp, Principal Industry Consultant, Materials Compliance Solutions for MatrixOne will review a recent environmental compliance implementation and discuss how current leading practices can be applied to attendees' specific product development activities. In addition, he will review what the business ramifications are of non-compliance, how companies can determine what substances are in their products, and discuss what tools are available to help companies integrate compliance information into their development and production processes, making it easier to organize, understand and report this data when needed.

What: Free half-day conference (complimentary lunch included) entitled: "A Strategy for RoHS Success: Practical Lessons and Real Solutions"

When: Thursday, December 8, 2005, 10:00 am to 3:00 pm PST

Who: Speakers from MatrixOne, Tetra Tech and Environmental Monitoring & Technologies will share their knowledge and expertise to help you through the maze of environmental compliance for the electronics industry.

Where: Sheraton Gateway Hotel at the Los Angeles Airport

6101 West Century Boulevard

Los Angeles, CA 90045

To Register: Please contact Sonja Waite of Tetra Tech via e-mail at sonja.waite@tetrattech.com, or call (734) 213-5000. Include your name, title, company name, telephone number and e-mail address and you will receive a confirmation via e-mail.

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PLM On Demand Webcast Series for Small & Medium Sized Businesses

December 2005

PTC PLM On Demand brings the benefits of PLM to small and medium manufacturers without the hurdles of traditional deployments. This web-based service, built upon the Windchill technology, but hosted by IBM, helps manufacturers gain control over their product development processes such as data vaulting and change management and simplifies collaboration between teams, departments, and external parties.

PTC PLM On Demand is an easy way for manufacturers to improve all aspects of the product lifecycle without the costs and risks associated with a traditional enterprise system implementation. PTC PLM On Demand Standard customers can be up and running in a matter of days with minimal up-front investment

The PLM On Demand Webcast Series will provide:

1. An introduction into key capabilities such as vaulting, multi-CAD data management, search, document management, change management, visualization, collaboration, project management, and process automation
2. Examples of how other leading manufacturers are maximizing their product development efforts

Learn more about the PTC PLM On Demand Standard offering:

- [Product page](#)
- [Customer GO LIVE! press release](#)
- [Windchill PDMLink On Demand data sheet](#)
- [Windchill ProjectLink On Demand data sheet](#)

Scheduled Events

Dec 15, 2005 [PDMLink Demonstration—PLM On Demand](#)

Dec 22, 2005 [ProjectLink Demonstration—PLM On Demand](#)

Dec 29, 2005 [PDMLink Demonstration—PLM On Demand](#)

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SolidWorks World 2006 in Las Vegas Approaches a Record 3,000 Attendees; Next Month's Annual User Conference and Expo Only Six Weeks Away

7 December 2005

Registrations are pouring in at a record pace for SolidWorks World 2006. This year's event takes place Sunday, Jan. 22 through Wednesday, Jan. 25, 2006, at Caesars Palace in Las Vegas.

SolidWorks World 2006 offers a multitude of educational opportunities with nearly 100 breakout sessions, focus groups, special Certified SolidWorks Professional (CSWP) activities, and pre-conference sessions like the CAD Manager's Boot Camp. Attendees will learn new tips and techniques for working with SolidWorks® software, try SolidWorks partner solutions, network with peers, and hear product news first hand.

The annual offsite event, included with registration, will take place Tuesday night at the Las Vegas Motor Speedway. Attendees will get a taste of real stock car, drag, and "autocross" racing, with multiple opportunities to get behind the wheel.

"SolidWorks World, especially the breakout sessions, is a great way to learn new information to increase user productivity, and clearly outweighs the cost of attending," said Mike Baljak, CAD Support, Automation Tooling Systems, of Cambridge, Ontario, Canada. "A number of business opportunities and great ideas are sure to take form as a direct result of attending SolidWorks World 2006."

A surprise guest will kick off Monday's general session along with SolidWorks Corporation's CEO John McEleney and Chief Operating Officer Jeff Ray. Keynoting on Tuesday will be the celebrity design duo of Richard Seymour and Dick Powell of Seymourpowell, a London consultancy famous for futuristic designs for companies like Nokia, Minolta, and Hewlett-Packard. Seymourpowell has been "inventing the future" for more than two decades by factoring social, economic, and technological trends into new products. The pair will spotlight projects like their recently unveiled ENV (Emissions Neutral Vehicle), a quiet, non-polluting fuel cell motorbike that can reach 50 mph but emits only water vapor.

Sunday afternoon's CAD Manager's Boot Camp will cover a wide variety of topics related to deploying and managing SolidWorks software. This special session will help system administrators and information technology personnel understand how a combination of IT, best practices, tools, and methodologies can help organizations maximize their investments in SolidWorks software. More than 350 users attended last year's boot camp. Pre-registration is required.

Wednesday's general session will feature a sneak peek at a few of the hottest features that will be included in the next version of SolidWorks software, SolidWorks 2007, as well as the next version of COSMOS® design analysis software. By tradition, users will submit specific enhancement requests, many of which will find their way into to the next version of SolidWorks software.

Throughout the week, SolidWorks World 2006 attendees will be able to see, touch, and sample more than 50 exciting new SolidWorks-designed products—including toys, vehicles, sporting goods, and musical instruments—in the popular SolidWorks World Product Showcase. The showcase will include interactive exhibitions, multimedia displays, and special surprises.

The SolidWorks World Partner Pavilion, sold out with more than 85 exhibitors, features a vast range of third-party products that complement SolidWorks software, enabling users to tackle virtually any mechanical design, engineering, or manufacturing challenge. Exhibiting partners include tech giants like Intel and Microsoft as well as companies focusing their efforts on CAD industry technology.

Last year's event featured keynote speaker Burt Rutan, founder of Scaled Composites, LLC and the designer of SpaceShipOne, the first private manned spacecraft to exceed an altitude of 328,000 feet twice within two weeks. The SpaceShipOne team, which used SolidWorks and COSMOS software among other CAD tools to design the craft, claimed the \$10 million Ansari X-Prize.

Special surprise guests last year included personalities from Orange County Choppers (OCC), the custom motorcycle shop popularized on The Discovery Channel® TV show "American Chopper." OCC uses SolidWorks software to design the sweeping exhaust pipes, daring wheels, and other key features that make its street machines unique.

"SolidWorks World offers users a great chance to trade ideas with fellow SolidWorks users, developers, company executives, and partners," said McEleney. "Attendees take part in activities that are instructive and entertaining and leave restored, energized, and better prepared to accomplish great things."

The conference fee of \$895 covers all conference sessions, materials, breakfasts, lunches, and evening events. SolidWorks Corporation this year is offering a special deal enabling three conferees to attend for the price of two. For more information and to register, visit <http://www.solidworks.com/swworld>.

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AutoWeb Joins UGS JT Open Technical Review Board

8 December 2005

[AutoWeb](#) announced they have been appointed as the newest member of the Technical Review Board (TRB) for JT Open, a global initiative to promote the continued development and proliferation of UGS' JT technology as the PLM industry's standard 3D collaboration data format. This appointment is a great opportunity for both AutoWeb and UGS Corp.

AutoWeb will commence their involvement on the board by sharing stories of success at the UGS sponsored "Innovation is a Team Sport" event to be hosted on December 8th 2005 in Detroit. AutoWeb will share with the participants how it has been able to drive innovation into the industry by providing collaborative solutions for OEM's and suppliers alike.

"AutoWeb is pleased to be joining Caterpillar, DaimlerChrysler, Ford, GM, Renault, Siemens, UGS, Visteon, Actify, Alias, Opticore, Theorem Solutions and others as part of the Technical Review Board," says Nino DiCosmo, chairman, president and CEO of AutoWeb. "This appointment will allow AutoWeb to deepen our understanding of the PLM industry and become more involved with the industries that continue to adopt the JT technology as a standard."

Headquartered in the Detroit suburb of Rochester Hills, AutoWeb provides secure data management services to their community of more than 19,000 users at 2,500 companies in 38 countries around the world. AutoWeb works with some of the world's leading automotive manufacturers and their suppliers, including DaimlerChrysler, Ford, General Motors, Honda, Mitsubishi.

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CAD Schroer Partners with INAS to Bring Powerful, Integrated Drafting Support to Pro/ENGINEER® Customers in Romania and throughout the Balkan Region

December 2005

CAD Schroer GmbH (CSG), whose STHENO/PRO™ drafting plug-in for Pro/ENGINEER offers a powerful integrated data management solution, recently expanded its reach into the Balkans by concluding a reseller agreement with INAS, Romania's first wholly owned Research and Design Institute for mechanical engineering and IT consulting.

CAD Schroer GmbH (CSG), the engineering solutions provider known for its MEDUSA4™ and STHENO/PRO™ MCAD software suites, has a strong European presence with offices in Germany, France, Switzerland and the United Kingdom. "Offering local, friendly, and technically competent advice to our customers has always been our fundamental strength," says Michael Schroer, founding Director of the company that has grown from strength to strength since its beginnings as a CAD-based engineering services provider in 1986.

New Partners in Key Locations

Its extensive reseller network, which subscribes to the same ethos, already covers much of the globe, but there is plenty of room for growth in specific countries and market niches. "Our latest partner drive focuses on suppliers to Pro/ENGINEER® customers, who recognize STHENO/PRO as an unrivalled solution", Michael continues, "This month we are pleased to welcome INAS, a very professional and technically competent, rapidly expanding service provider in Romania, one of Europe's key locations."

About INAS

Romania, which became a member of NATO in March 2004 and joined the EU accession treaty in April of this year, is the largest of the Balkan countries, one of whose major exports is machinery.

INAS, which was established in 1991 and has its origins in the aviation industry, has offices in Craiova and Bucharest. An established technical consulting centre in the field of CAD/CAM/CAE, INAS provides design and engineering services and solutions for a wide spectrum of industrial applications, from automotive and heavy equipment to nuclear and defense. They include production management and control, design, stress analysis, design optimization and engineering simulations. INAS also offers training and technical support for the implementation of integrated information systems.

“We are very excited about the new relationship with CAD Schroer,” explains Eugen Stefanianus, INAS’ Managing Director, “As a provider of Pro/ENGINEER, Windchill® and Pro/INTRALINK®, we see STHENO/PRO as the ideal drafting and data management solution for our Pro/E customer base. It replaces legacy systems that don't sit well with a company's overall product development strategy, offering one homogeneous data management solution. Then there is the added benefit of very powerful and intuitive drafting functionality, ideal for design tasks where 2D is more efficient and cost effective.”

INAS’ customers include some of the world’s most well-known car manufacturers, as well as the European Union. Closer to home, INAS works on projects for Romanian R&D, manufacturing and defense organizations.

"No matter which corner of the globe you visit, design engineers have much in common: they need competent advice, backed by reliable, efficient, integrated tools that work the way engineers do – freeing, rather than restricting, creativity." Michael Schroer concludes, "STHENO/PRO has managed to capture the imagination of customers throughout the world, precipitating our move for further expansion. We are always pleased to find partners who, as leaders in their field, share our passion for friendly and competent customer support, providing real added value to any systems implementation.”

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Financial News

Increased Demand Sustains Best-Ever Performance From AVEVA; Interim Results Show Record Growth in Business, Profits and Revenue

December 2005

AVEVA has announced record growth in revenue, profits, and cash for the six months ended September 30, 2005.

Revenue increased 21% over the same period last year, from £24.1 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 (2004: £2.7 million), generating adjusted earnings per share of 17.26p—an increase of 186% on 2004. AVEVA credits its success to outstanding performance across all regions and markets in which it operates. In addition, AVEVA is beginning to see acceleration in orders from some of the World's emerging economies, particularly Russia and South America.

In the last year, AVEVA has continued to see a steady increase in the number of long-term oil and gas projects around the world with signs that this success will continue in the future. Forty-four £1 billion offshore developments, thirteen £1.5 billion refineries, twenty-seven £1 billion LNG plants and eleven £3.5 billion petrochemical plants are currently scheduled to be built over the next 10 years.

Among the successes of the previous year have been global projects with customers like BP in Angola and Shell in Nanhai, China. Additionally, Petrobras, the national oil company of Brazil, migrated its

legacy data from four of its refineries to AVEVA's VANTAGE PDMS 3D solution. Petrobras is using AVEVA software in eight of its refineries and is expected to integrate the product across all 14 in time.

Richard Longdon, CEO of AVEVA, said "We have outperformed our own forecasts across all regions and markets that we operate in and have continued to strengthen our position in our three main markets of oil and gas, power and marine. We have seen a good influx of new business, much of which has been at the expense of our competitors and, with a steady renewal of rental contracts we are well placed to build on the momentum that has been established in the business over the last year."

The successful penetration of Asia Pacific markets continues to be a key factor in the Group's performance, as is the success of AVEVA's business in Russia, which was marked by the opening of an office in Moscow. The AVEVA suite of products has already become the system of choice in China, where rapid construction of both nuclear and fossil-fuelled power stations is taking place as the country seeks to address its massive need for extra power capacity.

This phenomenal growth has been experienced whilst AVEVA's investment in research and development has grown by more than 23% to meet the evolving needs of its ever-growing customer base and the expanding global sales infrastructure.

AVEVA Group plc is a fast growing lifecycle engineering IT solutions and services provider to the oil and gas, paper and pulp, power, chemical, pharmaceutical and shipbuilding industries. The Group reported, for the year ended March 2005, a growth in turnover of 51% over 2004. The Group has grown consistently since 1967 on the strength of pioneering engineering technology that protects the information assets of its customers from the volatile nature of the IT industry.

The Group's history of innovation spans five decades and has produced most of today's major engineering IT technologies. Serving over 1500 clients, AVEVA has a dominant position in many market sectors both on and offshore. In May 2004, the Group acquired Tribon Solutions AB, the market-leading shipbuilding solution company and now serves 85% of the world's top 20 shipbuilders.

The Group's clients include plant owner operators, shipbuilders and engineering contractors such as 3M, ALSTOM Power, AMEC, BASF, China Huanqiu Contracting & Engineering Corporation, Daewoo Heavy Industries, Daewoo Shipbuilding & Marine Engineering (DSME), Dalian New Shipbuilding, Du Pont, Electricité de France, Framatome ANP, Halliburton, Hanjin Heavy Industries, Hitachi, Hudong Zhonghua Shipyard, Hyundai Heavy Industries, Kawasaki Heavy Industries, Kawasaki Shipbuilding Corporation, Kvaerner, Merck, Mitsubishi Heavy Industries, Mitsui Engineering & Shipbuilding, North-West Electric Power Design Institute, Petronas Carigali, Samsung Engineering, Shanghai Waigaoqiao Shipbuilding, Shell, Sinopec Engineering Incorporation, STX Shipbuilding and Uhde.

Headquartered in Cambridge, England, AVEVA Group plc and its operating subsidiaries currently employ more than 500 staff worldwide with offices in England, Australia, China, France, Germany, Hong Kong, India, Italy, Japan, Malaysia, Norway, Russia, Saudi Arabia, Singapore, Sweden, South Korea and the USA.

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SSA Global Reports First Quarter Fiscal Year 2006 Operating Results; Record Organic License Growth Drives Earnings

8 December 2005

SSA Global™ announced financial results for the first quarter ended October 31, 2005.

"We are pleased to report another strong performance in fiscal 2006 Q1, our 14th consecutive quarter of profitability with continuing strong license revenue," said Mike Greenough, chairman, president and CEO of SSA Global. "We believe our product strategy and laser focus on solutions are being very well received by our customers."

First quarter total revenue increased 7% to \$177.5 million compared to \$166.5 million in the prior year.

License revenue for the quarter was \$52.0 million, an increase of 26% from the first quarter last year. On an organic basis, license revenue grew 21% for the quarter and represented 29% of total revenue compared to 25% last year.

The acquisition of Epiphany, which closed on September 29, 2005, contributed \$6.4 million to total revenue and \$2.4 million to license revenue in the first quarter.

During the first quarter, North America contributed 49% of total revenue; Europe, Middle East and Africa (EMEA) contributed 35%; and Asia-Pacific/Japan (APJ) and Latin America contributed the remaining 16%. For the quarter ended October 31, 2005, 982 contracts were signed, including 58 new customers that represented 8% of the total license value associated with software contracts signed in the quarter.

On an adjusted basis, net income for the quarter grew 19% to \$17.8 million or \$0.24 per diluted share up from \$15.0 million or \$0.21 per diluted share last year. (Adjusted net income and earnings per diluted share includes deferred license revenue associated with acquisitions and an assumed 34% tax rate and excludes amortization of acquired intangibles, in-process research and development charges, stock-based compensation expense, restructuring charges and benefits and loss on early extinguishment of debt). For the quarter, adjusted operating income grew 20% to \$30.9 million representing 17% of revenue that was up from 15% of revenue last year.

For the first quarter, the Company reported GAAP operating income of \$10.3 million compared to \$13.7 million last year and GAAP net income of \$1.0 million compared to \$6.4 million last year. Earnings per diluted common share, under GAAP, were \$0.01 for the current fiscal year quarter.

Cash and cash equivalents as of October 31, 2005 totaled \$90.0 million and net cash used in operations for the quarter totaled \$8.5 million. Days Sales Outstanding (DSO) were 75 and down from 78 days at the end of the first quarter of 2005.

The Company will hold a conference call following the release after the close of market at 5:00 p.m. EST. Thursday, December 8, 2005.

On the call, senior management will review first quarter 2006 earnings. Investors and analysts are invited to participate on the call. A live, audio-only webcast of the call will be made available to the public on the Company's website at <http://investor.ssaglobal.com> and will be archived for approximately three months following the call. In addition, a replay of the call will be available approximately one hour after the conference call concludes and will remain available through Thursday, December 15th. To access the replay, dial 1-888-286-8010 in the U.S. and Canada, or 1-617-801-6888 outside U.S. and Canada, passcode 70534692.

More detailed financials click [here](#).

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Implementation Investments

Bruuns Bazaar Extends Its Use of Geac Collaboration Software

6 December 2005

Bruuns Bazaar (<http://www.bruunsbazaar.com>), the Copenhagen-based high fashion retailer, has extended its investment in collaborative product development software from Geac®. The software from RunTime, Geac's specialist division serving the apparel and footwear industry, will now be extended to be used by designers and product developers at its head office in Copenhagen. The product lifecycle management (PLM) software is now the cornerstone to its ability to launch 1000 new products a year.

Bruuns Bazaar's products include high fashion clothing, casual jeanswear, shoes and accessories—including eyewear and fashionable mobile phone accessories. It has 15 stores throughout Western Europe, including outlets within leading retailers like Selfridges.

The retailer has been using Geac software to handle product development since 1999. Tight integration between its PLM system and its enterprise resource planning (ERP) software from Navision (now part of Microsoft) means there is no need to re-do manual work. This enables the company to spend half of its time developing new products and the other half selling—ensuring the company is ultimately effective.

One of the essential elements of the PLM system is QuestPDM. This is used by designers to facilitate a whole, structured collaboration process to ensure that nothing is missed and that products are planned on time. It helps designers and product developers to work in a very structured way, allowing them to focus on being "creative in making garments, rather than making systems", according to Teis Bruun, one of the founders and current CEO of Bruuns Bazaar. He said: "The templates within the Quest system can save vast amounts of time. When you consider a third of our products are based on previous designs, such as men's shirts, you don't need to start from scratch every time. When you're launching 1000 brand new products every year you need ultimate efficiency whilst getting the designs absolutely right. After all, a retailer is only as good as its last collection. Therefore the effectiveness of our product development process is absolutely crucial."

Efficiency savings are possible as the library functionality within Geac's system enables designers to save complete drawings, materials, designs, prints and other design properties in a transparent way. Designs are converted into PDF format and sent by e-mail, for example, to Bruuns Bazaar's production facilities in Asia, India, West and Eastern Europe. Once complete they are handled by its new distribution centre in Glostrup, Denmark.

Teis Bruun, said:

"We knew we had to have a solid system in house and I am very pleased that the choice we made back in 1999 was the right one. Geac had the best system back then and it has continuously kept the momentum

in the development of this system. By extending the system to provide complete PLM functionality we can embrace our global design and product development community. This has ensured that we can continue to expand our business without worrying about our backend systems."

Steen Waever Poulsen, international sales & business development manager for Geac's RunTime business, concluded:

"In order to manage collections successfully retailers need to keep totally focused on their design work, order fulfillment and logistics operations, without worrying about the supporting technology. Launching 1000 successful new products every year is a colossal task, and we're delighted that our systems support Bruuns Bazaar in this vital quest."

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Carraro Drives Product Lifecycle Management with MatrixOne

5 December 2005

MatrixOne, Inc. announced that The Carraro Group, headquartered in Padua, Italy, has selected MatrixOne as its PLM platform. The Carraro Group designs, manufactures and sells drive train systems for earthmoving equipment, tractors, materials handling equipment, light commercial vehicles, cars and stationary applications, such as escalators. The MatrixOne solution will enable Carraro to manage all aspects of the product lifecycle process, including product requirements, development of the product within the design office, creation and management of the design bills of materials (BOM) and integration with the ERP and CAD systems currently installed.

Mario Carraro, the Group's President and CEO, said "the innovation we achieve through the use of PLM allows us to protect our competitive advantage by anticipating our customers' needs and providing high value-added products and services. For this reason, we are happy to have reached an agreement with MatrixOne to implement a PLM solution that will allow us to significantly improve the product development processes and effectively support the group's strategic and business objectives."

"As part of Carraro's overall growth strategy, the adoption of a PLM system allows us, first of all, to transform the management of complexity into a potential competitive advantage," said Marco Tecchio, the Carraro Group's Technical Director. "Secondly, the innovation will be placed at the center of all processes; integrating the fundamental aspects of product development from strategic marketing to post-sale services and from technical skills to system integration. This will allow us to strengthen the market's perception of Carraro as a reliable and competitive partner for developing successful and technologically advanced solutions."

According to Luigi Salerno, MatrixOne's Regional Sales Director for Northern and Southern Europe, "the agreement to implement the PLM project at Carraro is particularly satisfying because the Carraro Group is considered a leading example, both in Italy and internationally, of a company with global success that has focused on innovation as a strategic objective."

Carraro is a multinational group that is a worldwide leader in the supply of transmissions for off-road, construction and materials handling vehicles, with consolidated sales of 514 million Euros in 2004. The Carraro Group designs, manufactures and sells drive train systems for earthmoving equipment, tractors, materials handling equipment, light commercial vehicles, cars and stationary applications (such as escalators). The Carraro Group offers itself as a supplier of advanced technological solutions and integrated systems, in an effective strategic partnership relationship with customers, supported by a constant dedication to maintain a high level of performance and quality of its products and services everywhere in the world. The group, whose holding company has been listed on the Italian Stock Exchange since 1995, is based in Campodarsego (Padua), employs over 2,200 people—1,360 in Italy—and has production plants in Italy, Germany, Poland, Argentina, the United States, India and China, in addition to sales offices in Turkey and Japan.

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Elysium Inc. Announces Design Intent Engineering as its first Nissan Authorized PDQ NP CAD Data Quality Service Center

8 December 2005

Elysium Inc. announced the Nissan Authorized PDQ NP Service Center in collaboration with Design Intent Engineering (DIE).

PDQ NP is a protocol for 3D CAD data quality that is used by Nissan Motors and its suppliers to ensure that only quality data is exchanged within its supplier network. To further enable the implementation and acceptance of PDQ NP, Elysium, which developed the software, is establishing support centers that assist suppliers in getting the 3D CAD data certified to the highest possible quality.

“Nissan, with Elysium software, is now able to identify bad geometry that is causing a loss in 3D CAD data quality between Nissan and its suppliers,” said Ken Tashiro, VP & COO, Elysium Inc. “The focus now is to ensure that all Nissan suppliers are able to exploit the advantages provided by having greater accessibility to 3D CAD data healing and certification providers. We are doing this via Authorized Service Centers.”

The PDQ NP Service Center provides Nissan and its suppliers with the ability to provide a PDQ NP check service that meets the release requirements and compliance of the Nissan Technical Center North America (NTCNA).

Several years ago, Nissan decided to embark on a new virtual development process called V3P. Essentially, V3P demanded a complete re-engineering of how Nissan produced automobiles: the design and post design processes, the software tools, the manufacturing methodologies, and best practices. One of the early concerns found during digital development trials was that data errors, resulting primarily from data translation, were causing significant problems and delays during downstream study and analysis.

Elysium solved the company’s problem by providing PDQ NP that acts as a 3D CAD data firewall that identifies bad geometry; then fixes and guarantees it with a PDQ stamp; or isolates and rejects it.

The collaboration with DIE has allowed the creation of the PDQ NP check that not only ensures service that meets the release requirements and compliance of the NTCNA, but also allows smaller-sized companies to provide the service as well. DIE provides a highly skilled group of engineers, fully knowledgeable of the NTCNA design methodologies.

About Elysium

Founded in 1984, Elysium bridges the gap between CAD systems and enables PDM and product structure synchronization. Elysium's CADporter™, CADdoctor™, and CADportal™ software products enable the translation of all geometry from one CAD system to another with the industry's highest success rate. Other products include CADpdm™, a tool that enables CAD integration within a PDM environment. Platforms supported include ABAQUS/CAE, Autodesk (Inventor and Mechanical Desktop), Dassault Systèmes (CATIA, SmarTeam, SolidWorks, Spatial, ACIS), PTC Pro/Engineer and UGS (NX and NX I-deas, JT, ParaSolid) as well as industry standards IGES and STEP. Elysium has successful partnerships with several major software companies including ABAQUS, Autodesk, CATIA, CoCreate, Design Intent Engineering, IBM Global Services, Moldflow, MSC.Software, PTC, SmarTeam, SolidWorks, Spatial and UGS. Elysium is a member of the AIAG and an Official Supplier of Renault F1 Team. For additional information about Elysium's products and services, please visit <http://www.elysiuminc.com>.

About Design Intent Engineering

Design Intent Engineering, Inc. provides engineering, design, CAE, prototyping and styling services to the global transportation industry. A Michigan-based company founded in 1999, Design Intent Engineering is a technological leader in transportation development with an offshore arm in Gurgaon, near Delhi, in India. ISO9001: 2000 accredited, Design Intent Engineering's in-house capabilities specializing in class A surface development, product design and the latest offerings of CAE and prototype development and now PDQ NP services have earned worldwide recognition. Design Intent Engineering is a subsidiary of Eicher Motors Limited, a New Delhi India headquartered manufacturer of Commercial Vehicles and Motorcycles. For more information, visit <http://www.designintenteng.com> or <http://www.eicherworld.com>.

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HARMAN/BECKER Automotive Implements Global Product Development Strategy With PTC Windchill®

5 December 2005

PTC announced that HARMAN/BECKER Automotive Systems GmbH headquartered in Karlsbad, Germany, is expanding its deployment of Windchill ProjectLink™ and Windchill PDMLink™ to 1,000 users across the company. HARMAN/BECKER Automotive Systems is a leading supplier of Automotive Infotainment Systems and runs several development centers worldwide. HARMAN/BECKER has been a long time customer of PTC since 1994, having standardized on Pro/ENGINEER® as its preferred design solution for mechanical engineering. The company is using PTC Windchill to complete its Product Development System, enabling control of product information and the implementation of global standards for its product development process.

In addition, HARMAN/BECKER's use of PTC Pro/INTRALINK® for Pro/ENGINEER data management will now be migrated to Windchill PDMLink within the next six months. PTC's Windchill will become the global information backbone to manage Pro/ENGINEER models as well as all project and engineering data management including the management of other mechanical design content such as CATIA V5, and electrical design content such as Mentor Graphics.

"Moving to Windchill PDMLink gives us faster access to product information. It allows us to generate product structure variants, for example country specific product structures, faster and with more flexibility. And it will help us reduce cost by reusing existing product structures which are now much more easily available to other teams," explains Dr. Michael Ruf, Vice President Engineering Europe, HARMAN/BECKER Automotive Systems.

Establishing a single global collaboration platform for internal and external use with partners and suppliers is the key to leverage the synergies across the various global engineering locations. Windchill ProjectLink allows all members of a product development team to manage projects, share information and conduct design reviews in real time over the Web.

"PTC's technology guarantees more efficient execution and management of our engineering projects, offering capabilities for real time monitoring and effective change and program management for our global organization. PTC is also the best choice to integrate the new Windchill-based PLM environment with our ERP system from SAP®," says Marek Neumann, Director Program Management Europe, HARMAN/BECKER Automotive Systems. The company expects to increase product reliability by using standardized and automated release processes. "Automating the workflows will help to optimize cross-department processes and shorten cycle times," adds Dr. Karl-Heinz Augenstein, Vice President Quality Management. "We can now easily control each product throughout the whole lifecycle."

"PTC is recognized as a leading PLM provider for the automotive industry. We have seen strong momentum as more and more automotive customers, both within and outside of our traditional powertrain customer base, choose us as the preferred partner for design, data management and collaboration. The clean, integral and flexible architecture of Windchill makes it easy for customers to adopt new capabilities across globally distributed design teams," said Dick Harrison, president and chief executive officer, PTC.

HARMAN/BECKER Automotive Systems provides premium products for the automotive industry and the aftermarket. Drawing upon world-class technologies from Becker®, harman/kardon®, JBL®, Infinity®, Mark Levinson® and Lexicon®, HARMAN/BECKER integrates innovative automotive entertainment, information, and communication systems. HARMAN/BECKER offers the most advanced technologies for cars, from branded high-end audio systems with leading-edge multi-channel surround sound technology, to complete infotainment systems with navigation, media players (DVD Audio, DVD Video, CD, MP3), speech dialog systems, telephone and telematics solutions (Internet, WAP, Email, SMS, Bluetooth), analog/digital tuner and receiver technologies, headphones and rear seat entertainment.

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LANXESS Selects Open Text to Further Optimize Vendor Invoice Processing in SAP® Solutions

5 December 2005

Open Text™ Corporation announced that LANXESS Corporation, a manufacturer of high-quality chemicals, synthetic rubber and plastics, has selected Open Text's Vendor Invoice Management (VIM) solution to optimize accounts payable within its implementation of SAP solutions, helping the company

to lower costs and improve financial reporting speed and accuracy. VIM is part of Open Text's Livelink ECM Suite for SAP Solutions.

Formed earlier this year by Bayer AG to be a new global player in the chemicals industry, LANXESS is turning to Open Text to help it meet cost management and efficiency goals. VIM tightly integrates with LANXESS' implementation of SAP solutions to more fully automate the processing of more than 85,000 invoices annually.

"We anticipate this system will provide significant time savings while also reducing the number of people it takes to process an invoice," said Richard Papke, Accounts Payable Manager at LANXESS. "It will also offer significant benefits to our procurement managers, our vendors and senior executives by providing up-to-date access to the latest payment information directly from our SAP solution-based system."

A critical feature of Open Text's VIM solution for LANXESS was class-leading integration with SAP solutions. "It was extremely important to us to have a solution that worked within our implementation of SAP solutions, and not be a 'bolt-on' like some of the other alternatives we considered. Open Text also came across as a company willing to go the extra mile throughout the evaluation and testing process," said Papke.

VIM offers a complete, end-to-end solution for optimizing vendor invoice processes in SAP solutions, with built-in reporting and analytics that can be used to continuously improve processes. VIM brings capabilities that help customers reduce costs, while helping to improve cash management and compliance with corporate governance regulations.

At the front-end, VIM automates the handling of incoming invoices. Once invoices are routed into an SAP solution, VIM can improve the handling of invoice exceptions by applying more than 20 best-practice workflows for invoice exceptions such as missing goods receipts, incorrect pricing and incorrect tax. The invoice approval function in VIM provides Web-based coding and approval by users working in the SAP solution, and provides complete tracking and visibility as well as escalations, for timely invoice approvals. A vendor self-service component of VIM allows vendors to submit invoices, or check the status of invoices or purchase orders online.

Open Text is an SAP Software Partner. For more information on Open Text's Livelink ECM Suite for SAP Solutions, go to: <http://www.opentext.com/products/sap/>.

LANXESS Corporation was formed when the Bayer Group combined most of its chemical businesses and large segments of its polymer activities. The company began operating as a legal entity in the United States on July 1, 2004. LANXESS Corporation is a member of the German LANXESS-Group that was spun-off from Bayer in January 2005.

The LANXESS-Group manufactures high-quality products in the areas of chemicals, synthetic rubber and plastics. The companies' portfolio comprises basic and fine chemicals, color pigments, plastics, fibers, synthetic rubber and rubber chemicals, leather, textile processing chemicals, paper chemicals, material protection products and water treatment products.

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LMS Virtual.Lab Helps China's First Aircraft Institute of AVIC-1 Develop New Regional Jet

5 December 2005

LMS International announced that the First Aircraft Institute (FAI) of AVIC-1, an aerospace research institute in China, has deployed multiple licenses of LMS Virtual.Lab to support the development of the Advanced Regional Jet Program, ARJ21. Developed by FAI to meet China's growing need for air transportation, the ARJ21 will accommodate up to 100 passengers and will be available in freight, business jet, stretch and extended-range versions.

FAI recently deployed the LMS Virtual.Lab simulation suite to support the design and engineering of the aircraft body and the landing gear system. The software solutions being implemented by FAI include LMS Virtual.Lab Structures for finite-element pre- and post-processing driving external solvers such as Nastran, LMS Virtual.Lab Motion for the dynamic performance simulation of components and subsystems, LMS Virtual.Lab Acoustics for the analysis of interior and exterior noise, and LMS Virtual.Lab Optimization for the automated evaluation of design alternatives.

Through their experience with the LMS Virtual.lab software, FAI designers and engineers strongly valued the tight integration of the different applications in one single user environment. Until now, simulation was performed with stand-alone programs, involving considerable time and effort spent on transferring data and models between software packages and reworking simulation models. LMS Virtual.Lab streamlines the different simulation tasks, which enhances the reliability and accuracy of simulation results and increases the efficiency of the overall process flow at FAI.

Throughout the aircraft development program, FAI also expects to strongly benefit from the integration between LMS Virtual.Lab and CATIA V5, which is used in the aircraft design process. This integration allows FAI development engineers to perform a complete range of analysis tasks in the same user environment, starting from the initial CAD model. Through these capabilities, designers can now easily and reliably perform simulations on individual component designs. This enables them to identify and correct potential problems, explore alternatives and optimize their designs early in the development process.

“Through the deployment of LMS Virtual.Lab, designers now find it quite easy and efficient to perform component analysis in their well-known CATIA V5 user environment without the systematic involvement of analysis specialists.” explains Dr. Ning Zhen Bo, Vice President of Engineering at FAI. “Although LMS Virtual.lab was only introduced a year ago, we already noted significant time gains in the interaction between CAD design and the different simulation disciplines. This allows us to perform more design iterations, optimize our designs much earlier in the process, and greatly shorten the overall development cycle.”

“We are pleased to welcome FAI into the growing community of leading-edge companies integrating LMS Virtual.Lab into their critical product development programs,” says Willy Bakkers, LMS Executive Vice President and General Manager of the CAE Division. “FAI's decision to invest in LMS Virtual.Lab

demonstrates the technical merit and business value of the solution and confirms that our simulation offering is closely aligned with the stringent performance simulation requirements of mission-critical aerospace systems.”

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Nevada Universities Choose SolidWorks Software to Teach 3D CAD Fundamentals to Future Engineers

5 December 2005

SolidWorks has become the dominant 3D mechanical design software taught in Nevada's two largest universities, as the University of Nevada, Reno (UNR) has purchased 100 licenses of SolidWorks® Education Edition software to give students a jumpstart on their engineering careers. The university is standardizing on SolidWorks 3D mechanical design and COSMOS® design analysis software so students can develop the practical 3D CAD skills they'll need after graduation.

The University of Nevada, Reno has joined the University of Nevada, Las Vegas, which has 300 licenses of the SolidWorks Education Edition, in bringing 3D modeling to life for its students. UNR has approximately 16,000 undergraduate and graduate students pursuing degrees in 70 different disciplines. Its engineering department frequently reevaluates its curriculum to ensure it is teaching CAD tools that graduates will rely on professionally. Last year, the department chose to switch to SolidWorks to teach students 3D modeling software that was easier to learn and more widely used by manufacturers around the world.

"We want our students to be prepared for real-world engineering, and that means learning integrated design and analysis," said Eric Wang, associate professor of mechanical engineering at UNR. "Our previous instructional method was too involved to get to the point of actually doing any FEA (finite element analysis). We spent more time teaching the software than the theory and application. Students had to learn different interfaces for design, analysis, and computational fluid dynamics. SolidWorks and COSMOS are seamlessly integrated, so students can design and test objects from one familiar interface. That continuity and the software's ease of use play crucial roles in fueling engineering enthusiasm and ensuring students pursue engineering careers."

Beginning this semester, freshmen will learn fundamental design and analysis skills with SolidWorks and COSMOSWorks® design analysis software. In following years, they will explore different design and analysis approaches as they learn more complex skills, designing everything from robotics to seismometers that accurately gauge plate movement within the earth's crust. They'll use COSMOSMotion™ to learn key kinematics and physical simulation skills and COSMOSFloWorks™ to learn about principles in fluid and thermal dynamics.

"We could spend weeks teaching the theory behind product design, but it's the practical exposure to CAD that makes all the difference," said Wang. "And SolidWorks ensures students spend most of their time learning process and skills, not learning difficult software. Moreover, SolidWorks has become one of the most popular 3D design applications among engineers around the world, so it makes sense for us to be teaching those skills to students."

Some UNR students may also use SolidWorks and COSMOS software in the university's sports biomechanics research lab, where professors work with students on privately funded grants to test a variety of sports equipment. Wang, who has a doctorate degree in mountain bike design, will continue to work with students on projects to help leading bicycle companies design and test their equipment.

"The future demands that today's engineering students are well grounded in the principles, theories, and practical application of 3D CAD and design analysis," said Paul Maloney, worldwide sales manager, SolidWorks Education Sales. "That's the covenant that the University of Nevada, Reno and the University of Nevada, Las Vegas have made with their mechanical engineering students. The engineering programs at Nevada's universities demonstrate their commitment to preparing students for tomorrow's design challenges and rewarding career opportunities."

The University of Nevada, Reno relies on authorized SolidWorks reseller Technical Training Systems for ongoing software training, implementation, and support.

The University of Nevada, Reno offers bachelor's, master's and doctoral degree programs in 186 areas of study through 10 colleges and independent schools. Its growing research acumen is recognized across the globe, with its 700 instructional and research faculty garnering a record \$130 million in externally sponsored grants and contracts during the 2005 fiscal year. Each year, university faculty members and many of their students participate in more than 900 such sponsored projects, earning the institution the highest ranking for research and scholarship from the Carnegie Classification of Institutions of Higher Education. For more information, visit the Web site (<http://www.unr.edu>).

Technical Training Systems, Inc. provides training, curriculum, software, lab equipment, lab furniture, and supplies for technology education, engineering, machining, CAD/CAM, civil engineering, automation and robotics, automated wood production, consumer and family studies, and other educational programs in Utah, Idaho, Nevada, Wyoming, and Montana. Technical Training Systems has offices in Salt Lake City, Utah, and Meridian, Idaho. For more information, call 801-943-6677 or visit the Web site (<http://www.ttsed.com>).

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Omnify Software Announces Three New Product Lifecycle Management Customers in Texas; Company Gains Momentum in the Lone Star State

5 December 2005

Omnify Software announced three new customers, all based in Texas. Innova Electronics, Motion Computing and NovusEdge, have selected Omnify Software's PLM solution.

The Omnify Software product lifecycle management (PLM) system offers customers a complete solution for managing product data in a single, secure location. Omnify's web-based technology allows product data to be shared over a secure connection with all members of the design and manufacturing teams, as well as across the extended enterprise. Omnify PLM is ideal for small and mid-size companies since the system is quick to deploy, easy to use and requires minimal maintenance. Omnify PLM is also built on

an open-architecture platform allowing for bi-directional integration with Engineering (CAD/CAE) and Business (ERP, MRP, CRM) systems, and will not interrupt existing environments.

Omnify continues to gain sales momentum in Texas, and adds three new customers in this region. Innova Electronics, located in Houston, is a contract manufacturer specializing in the building of extreme environment electronics, hazardous area computers and sunlight viewable LCD monitors. Austin-based Motion Computing produces slate tablet PCs for mobile professionals in vertical industries including healthcare, field sales and service, government and education. NovusEdge, also located in Austin, is a provides IP-enabled physical access control and asset protection whose solutions enable organizations to be constantly aware of—and in control of—what is happening at the edge of their networks.

"We decided on Omnify PLM a year ago to integrate our design development and contract manufacturing product management with our ERP system," stated Charlie McAndrew, VP Engineering, Innova Electronics LP. "While Omnify is easy to use, the checks and balances in the system have reduced our costs by eliminating duplicate commercial parts inventory, speeding up the documentation process, and providing clear and traceable revision controls and approvals which our ISO auditor loves. Support from Omnify has been exemplary. I consider our choice of Omnify to have been beneficial to our product integrity and quality, and to our overall efficiency."

"We are excited about the recent growth Omnify Software has gained in Texas," stated Chuck Cimalore, CTO for Omnify Software. "Manufacturers in every region are seeing the importance and need for a comprehensive and affordable PLM system and are looking to Omnify Software for a solution."

"Motion significantly expanded its services and products in 2005, so our move to Omnify Software was important to support that growth," said John Doherty, Motion Computing's Vice President of Advanced Product Development. "We work with multiple suppliers and service providers and we needed a more sophisticated way to handle our increased documentation processes. Omnify's product lifecycle management system helps us better manage automated change approval and tracking with an efficient and flexible tool."

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P.A. Semi Develops 65nm, Multicore Processor Family Using Cadence Synthesis and Implementation

5 December 2005

Cadence Design Systems, Inc. announced that the Cadence® Encounter® digital IC design platform has helped P.A. Semi develop its new 65-nanometer multicore PWRficient processor with a successful test-chip tapeout in March 2005. P.A. Semi's first PWRficient processor, a dual-core device operating at 2GHz with five- to 13-watt power dissipation, is being developed from the ground up using the complete Encounter solution from RTL synthesis to GDSII. Silicon samples of the test chip are running at 2GHz.

Based on the IBM Power Architecture, the scalable, power-efficient PWRficient platform-processor family targets the high-performance embedded and computing markets.

"The Cadence Encounter platform helped us achieve our test-chip tapeout and is assisting us in keeping our processor tapeout on schedule," said Sribalan Santhanam, vice president of engineering, Design Group, at P.A. Semi. "The SoC Encounter XL RTL to GDSII system's advanced capabilities in RTL global synthesis, floorplanning, global physical synthesis and routing helps our designs to meet the required performance specifications, and the NanoRoute™ nanometer router's ability to support 65-nanometer rules is unprecedented."

"IBM Power Architecture has excellent momentum in many markets including computing, gaming and embedded applications. Continued expansion into other markets requires active support from the design chain," said Tom Reeves, vice president of Semiconductor Products at IBM Systems & Technology Group. "We recognize this as a significant achievement by P.A. Semi in developing its first Power Architecture based processor using the Cadence Encounter platform."

To achieve the power, frequency, and density targets for the design, P.A. Semi tapped the strength of a complete SoC Encounter XL-based flow. This RTL-to-GDSII system includes RTL global synthesis, prototyping, placement, optimization, and routing. Advanced capabilities in multi-objective low-power synthesis, global physical synthesis, clock-tree synthesis, manufacturing-aware extraction, and signal integrity and power analysis specifically address the complex issues of 65-nanometer design.

"We are extremely happy to see P.A. Semi achieve its objectives using the SoC Encounter flow," said Wei-Jin Dai, corporate vice president, R&D for Cadence. "The SoC Encounter system's strength is support for these types of complex, high-performance designs. We are particularly proud to be a part of P.A. Semi's development of a 65-nanometer product."

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Primavera® Customers Honored With Constructech Vision Awards

5 December 2005

Primavera Systems, Inc. that eight of its customers were awarded Constructech 2005 Vision Awards. The Constructech Vision Awards honor construction and engineering organizations that have solved critical business issues through the use of innovative technology solutions. Consistent among the winners is their ability to employ technology solutions across their organizations to standardize the way project teams work together. Combined, these companies have saved approximately \$45 million.

The eight winning Primavera customers were:

Cannon Design (Buffalo, NY)received the Bronze Vision Award for the A/E/C category.

Delcor Homes (Milford, MI) accepted the Bronze Vision Award for the Single Family less than \$100 million category.

Gafcon, Inc. (San Diego, CA) was honored with the Gold Vision Award and Silver Vision Award for the Construction Management category.

CIMdata PLM Industry Summary

Las Vegas Valley Water District (Las Vegas, NV) was one of two awarded the Gold Vision Award for the Government category.

Los Angeles Unified School District (Los Angeles, CA) was given the SilverVision Award for the Education category.

MCM Corporation (Miami, FL) was presented the Gold Vision Award for the Heavy/Highway category.

Skanska USA Building (Parsippany, NJ) was the winner of the Team Award, given to the best project team with the most innovative use of technology.

U.S. Army Corps of Engineers (Washington, DC) was also honored with the Gold Vision Award for the Government category.

The Army Corps of Engineers won the Gold Vision Award in the Government category for creating virtual project teams who work with others across a multitude of projects in 90 countries. “We are very grateful to have received this honor for our hard work and dedication to becoming the most efficient government agency,” commented Mark Gmitro from the United States Army Corps of Engineers. “The Army Corps has seen a tremendous improvement in the way the entire organization works together to complete our projects. As a provider of engineering solutions for the Nation, we are proud to say that we have come in under budget on many of our projects.”

Las Vegas Valley Water District (LVVWD) was also honored with the Gold Vision Award in the Government category for building an integrated project management system based on Primavera to manage \$2 billion in capital improvement projects. Gopal Veeramachaneni, senior civil engineer with the Knowledge and Technology Management Division of LVVWD’s engineering group stated, “ We are pleased to be recognized as a leader in the government project management space. Since the District began using the new scheduling platform to collaborate on projects, our timeline and budget targets have become predictable and consistent.”

Primavera received eight Constructech Technology Enabler Awards (the most awards given to a project management software company) for providing support and software to the winning organizations. Primavera was also recently honored with Constructech’s “Technology’s Hottest” designation for its solid revenue growth, overall product excellence and focus on helping customers develop more efficient business operations.

“We applaud all of this year’s winners, and especially our customers for pursuing a vision for technology innovation that will positively affect their ability to be successful,” said Primavera CEO Joel M. Koppelman. “These Primavera customers have built more cost-effective organizations by combining easy-to-use technology, effective processes, and informed project teams.”

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PTC Windchill® Helps Tae Kwang Manage Global Collaboration; Athletic Footwear Manufacturer Uses PTC Solutions to Enhance Competitiveness

6 December 2005

PTC announced that Tae Kwang Industries, an OEM manufacturer of athletic footwear, has successfully standardized on PTC's Product Lifecycle Management (PLM) solutions for collaboration with its overseas plants as well as integration with its Enterprise Resource Planning solutions. This is an expansion of Tae Kwang's relationship with PTC, which began with the company's selection of PTC Windchill in October 2002.

Tae Kwang, a Nike Inc. contract factory, chose to expand its implementation of its Windchill-based product development system (PDS) to form a collaborative production backbone for the company. Tae Kwang is using Windchill to collaboratively develop products in a globally distributed environment while controlling the information associated with that development throughout the product lifecycle. Tae Kwang uses Windchill to ensure effective communication among product development teams, logistics departments and overseas production plants in China and Vietnam. This approach enhances the company's competitiveness, increases efficiency and reduces overall product development costs.

Windchill provides a central source of information for products being designed and manufactured. It also unifies all the teams working concurrently on production across the extended enterprise and in geographically dispersed sites while providing strict configuration and change management functions with powerful automated workflows. Additionally, the integrated visualization capabilities allow a wide audience of Tae Kwang users to easily leverage the CAD models and drawings. The result is a shortened product design cycle, higher quality products and lower costs.

"Globalization governs today's business and gives more importance to information-sharing and collaboration across product development teams scattered all over the world," said Shin Yedon, managing director, Tae Kwang. "The increasing needs of sharing information between production facilities in China and Vietnam prompted Tae Kwang to employ a new system to strengthen the project management capabilities of its existing PDM system. PTC Windchill is the best solution to meet this requirement. Through Windchill, we will be able to share product development information more effectively. This in turn leads to major improvements in our lead time, cost efficiency and customer service.

"Tae Kwang's selection of PTC Windchill is evidence that global collaboration is not an option but a requirement in today's business environment," said Matthew Austin, marketing program director, consumer products, PTC. "It is clear that a product development system is critical to optimize the business processes involving a multinational consumer goods company and its partner company in Korea. With their extended use of Windchill, Tae Kwang is able to rapidly achieve their strategic and execution objectives."

Founded in 1971, Tae Kwang Ind, was awarded the Gold Tower Industrial Medal in 1997 and currently the owner holds a governing chair in the Korea Footwear Industry Association. While headquartered in Kimhae, Kyungsang Nam Province of Korea, the company also produces its products out of its overseas production facilities in Dong Nai, Vietnam (founded in 1994) and Qingdao, China (founded in 1995). Tae Kwang is the one of the Nike contract factories. The company employs 20,450 in its Kimhae

headquarters and factories in Vietnam and China. More information on Tae Kwang Ind., can be found at the company's website (<http://www.tkgroup.co.kr>).

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Simulation Reduces Design Time for EVDO Antenna from 6 Months to 6 Weeks

December 2005

Itronix has substantially reduced the time required to integrate extended wireless capabilities into personal computers by using computer simulation to evaluate antenna performance without a physical prototype. For example, the company recently designed an EVDO receive antenna in much less time that would have been required using the conventional build and test method. “Using traditional methods I would have probably built and tested about six prototypes, which would have taken maybe six months,” said Mike Decker, principle electrical engineer for Itronix. “Using the MicroStripes simulation software I optimized the design in about two weeks and then built one prototype to verify the simulation, for a total of about six weeks.”

With customers that include world recognized organizations such as Sears, U.S. Army, U.S. Air Force, U.S. Navy, U.S. Marines, FBI, Verizon, and Florida Power & Light, Itronix is one of the world’s leading providers of wireless, rugged mobile computing solutions. One of Itronix’ key differentiators is its wireless integration expertise, which includes a comprehensive offering of wireless mobility solutions. Itronix engineers recently designed a second EVDO antenna with the goal of improving receive performance in a notebook that already had EVDO and Bluetooth antennas. The main challenge in this application was the limited amount of space that was available for the third antenna and the potential for interference with the existing Bluetooth transceiver.

Itronix designed the antenna utilizing the MicroStripes electromagnetic simulation software from Flomerics Inc. “We selected MicroStripes because it is so much easier to use than the other packages we looked at,” Decker said. “When we were considering the software we modeled many of our existing designs and checked the simulation results against physical testing and found that it matched very closely.” Simulation showed that the initial design concept for the antenna was tuned to too high a frequency and had an unacceptably high return-loss at the desired frequency. Decker continuously improved the antenna design through a step-by-step process of modifying the model and re-simulating to determine the impact of his change.

Decker spent about 40 hours in total to design the new antenna, utilizing about 20 iterations to tune the antenna to the desired frequency and another 10 iterations to optimize its performance. Only when simulation results indicated that he had achieved all the performance that could be squeezed out of the antenna, did Decker order his first prototype. The physical testing results matched the simulation so the design was ready to go to market. “This example is typical of the time savings that we achieve on a regular basis by simulating antenna designs prior to building prototypes,” Decker said. Decker added that additional performance improvements can be achieved with a new feature of the software that runs a series of simulations while automatically varying one or more design parameters over a user-specified range.

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Space Systems/Loral Take Satellite Manufacturing To New Heights With IFS Business Software

8 December 2005

The IFS software will integrate with Space Systems/Loral (SS/L)'s current installation of Oracle® Financials. It will replace the company's UNIDATA-based legacy system with a modern, component-based solution. SS/L's goal is to streamline its project-driven manufacturing processes while having the flexibility to adapt to changing market demands and technologies.

"We chose IFS Applications because it's an excellent functional fit and the total cost of ownership (TCO) is much lower than that of the other enterprise suites we evaluated," said Jake Foraker, chief information officer for Space Systems/Loral. "Since our work is project-based, we also took a look at IFS' track record with project management solutions in the defense industry and were impressed with what we found."

"IFS' deep experience in the aerospace and defense industry makes us an excellent fit for Space Systems/Loral," said IFS North America president Cindy Jaudon. "We look forward to helping them find innovative ways to streamline their operations and projects. Our open, component-based architecture ensures rapid payback and a flexible, future-proof business solution."

Aerospace and defense is one of IFS' targeted market segments. IFS Applications includes advanced standard functionality that meets the demanding requirements of defense manufacturers. IFS' fully integrated project tracking and product data management (PDM) capabilities, when combined with other IFS Applications components, make it easier to operate while managing the design, manufacturing, and ongoing spare parts logistics and maintenance support of complex products throughout the product lifecycle.

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

About Space Systems/Loral

Space Systems/Loral, a subsidiary of Loral Space & Communications, is a premier designer, manufacturer, and integrator of powerful satellites and satellite systems. SS/L also provides a range of related services that include mission control operations and procurement of launch services. Based in Palo Alto, California, the company has an international base of commercial and governmental customers whose applications include broadband digital communications, direct-to-home broadcast, defense communications, environmental monitoring, and air traffic control.

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Thales Group, a Leading International Electronics and Systems Group Standardizes on UGS for Global Product Lifecycle Management (PLM) Project

7 December 2005

UGS Corp. announced Thales Group, a international electronics and systems group serving defense, aerospace, security and services markets worldwide, extended its agreement with UGS to globally implement Teamcenter™ software.

Thales Group originally deployed Teamcenter technology in several divisions to optimize the company's processes and workflows worldwide, enabling more efficient, simplified access to product data, as well as to create a more homogeneous enterprise-wide IT environment.

With the global implementation, Thales Group will use Teamcenter for change management, validation cycle and all data generated by the Thales Group's extended enterprise. In addition, Teamcenter will be deployed as part of the company's Enterprise Resources Planning-Manufacturing Resources Planning (ERP-MRP) exchange platform.

“This contract reiterates the confidence that Thales Group has in our expertise and applications. UGS offers Thales Group global expertise in PLM projects and strong aerospace and defense industry knowledge,” said Pascal Zehren, managing director, UGS France. “State-of-the-art technologies such as ours help facilitate collaboration within multinational organizations and enable them to strengthen their leadership in the global market.”

UGS Teamcenter powers innovation and productivity by connecting people and processes with knowledge. Teamcenter's comprehensive portfolio of proven digital lifecycle management solutions is built on an open PLM foundation.

Teamcenter solutions power companies' strategic business initiatives, including new product development and introduction (NPDI); global product development; global manufacturing; maintenance, repair and overhaul (MRO); strategic sourcing and regulatory compliance. Teamcenter solutions link users with secure, global access to a single source of product knowledge, enabling process excellence throughout the lifecycle.

Thales is one of Europe's foremost corporations and a leading international electronics and systems group, serving defense, aerospace, security and services markets worldwide. The Group employs some 60,000 people throughout the world, half of whom work outside of France. With operations in close to 50 countries, Thales generated revenues of 10.3 billion euros in 2004, including 75% outside of France.

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UGS Sponsors First PACE 2006 Vehicle Collaboration Project that Partners Corporate and Academic Sectors

6 December 2005

UGS Corp. announced its sponsorship of the PACE (Partners for the Advancement of Collaborative Engineering Education) 2006 Vehicle Collaboration Project. The PACE 2006 Vehicle Collaboration Project is a first-of-its-kind partnership between the corporate and academic sectors to use commercial PLM software to conceptualize and develop a ground-breaking vehicle that provides students with real-

world experience in New Product Development and Introduction (NPDI). This is the first global design engineering course with a real-time web collaboration tool used on a common vehicle platform for credit bearing curriculum in several countries.

In cooperation with co-sponsors General Motors (GM), EDS and Sun Microsystems, UGS is providing Teamcenter® software to support the collaboration of 14 universities worldwide on the NPDI initiative.

“We are offering our students a real taste of tomorrow’s engineering environment today by providing them with this unique opportunity to learn and experience true multidisciplinary global product design,” said Dr. Jan Helge Bøhn, associate professor, Department of Mechanical Engineering, Virginia Tech; and Director, Virginia Tech Computer-Aided Design Laboratory. “We have more than 110 mechanical engineers, electrical engineers, and industrial designers engaged across Australia, Brazil, Canada, China, Mexico, South Korea, Sweden, and the United States (US), all working together with GM designers and engineers using state-of-the-art collaborative design and engineering software and hardware to design a new family of low cost, sporty and fuel efficient vehicles. Truly, we are educating tomorrow’s global engineering leaders today!”

Teamcenter provides the engineering process management and collaboration environment to support the PACE 2006 Vehicle Collaboration Project participants around the world. Teamcenter’s Web access, along with its Windows-based collaboration environment, supports the innovative processes required by the program.

“Teamcenter simplifies the learning curve of a PLM system for our students by offering a familiar Windows desktop environment,” said Dr. C. Greg Jensen, associate professor, Department of Mechanical Engineering, Brigham Young University. “We have organized collaboration among the 14 universities around the functional areas of the vehicle design. Teamcenter provides a collaborative work environment where we can share component designs and discuss work-in-process in real-time via the internet, without incurring the costly expense of international telephone and travel costs. Without the Teamcenter PLM technology, a project of this scope would be cost-prohibitive in the academic sector.”

Project collaboration among the 14 universities, worldwide, has been organized around the functional areas of vehicle design as follows:

- Brigham Young University (US)—chassis and coordination of overall vehicle assembly;
- Hongik University (South Korea)—firewall and floorpan;
- ITESM Monterrey (Mexico)—wiper and exhaust systems;
- ITESM Toluca (Mexico)—door hinge mechanism;
- Monash University (Australia)—roof and ABC pillars;
- Shanghai Jiao Tong University (China)—brakes;

- Universidad Iberoamericano (Mexico)—engine;
- University of Trollhättan/Uddevalla (Sweden)—hood and trunk substructures;
- University of British Columbia (Canada)—steering;
- University of São Paulo (Brazil)—bumpers;
- University of Toronto (Canada)—seat mounts and adjustments, and differential;
- University of Waterloo (Canada)—suspension; and
- Virginia Tech (United States)—transmission and coordination of powertrain.

“UGS is a proud sponsor of the PACE 2006 Vehicle Collaboration Project,” said Ed Arlin, executive vice president, Global GM and Daimler Chrysler Accounts for UGS. “Together with our partners GM, EDS and Sun Microsystems, we are advancing the education of promising young engineers around the world, transforming the process of innovation in academia, as well as the corporate sector.”

PACE links GM, EDS, Sun Microsystems and UGS to support strategically selected academic institutions worldwide, to develop the automotive product lifecycle management (PLM) team of the future. PLM, as it relates to PACE, is an integrated, parametrics-based approach to all aspects of a product’s life—from its design inception, through its manufacture, marketing, distribution and maintenance, and finally into recycling, disposal and re-use/sustainability. PACE seeks to integrate parametrics-based applications into the design, engineering and manufacturing curricula of some of the most prestigious institutions around the world. To date, PACE has made contributions totaling more than US\$3.8 billion to 34 institutions in the US, Australia, Brazil, Canada, China, Germany, Mexico, South Korea and Sweden.

For more information about PACE, visit <http://www.pacepartners.org>, or <http://www.ugs.com/partners/gopl/pace.shtml>.



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WE Netherlands Uses Geac DesignTime and QuestPDM at Styling Department

5 December 2005

Fashion chain WE Netherlands, a subsidiary of WE International, is set to benefit from using the [Geac](#) RunTime software DesignTime and QuestPDM at its styling department. The modules, which have been especially designed for the apparel and footwear industry, enable WE to standardize work processes, resulting in an increased efficiency and a shorter time-to-market. WE will start using twenty DesignTime and QuestPDM systems at the styling department. Next year, the roll-out of another 35 QuestPDM systems to the product development and purchase departments will follow.

With QuestPDM, WE has access to one single source of design data, such as information on fabrics, colors, measures, purchase prices, article numbers and fashion themes. DesignTime offers WE modules for creative and technical design. An example of these is StyleTime, which includes an extended library of detailed information on materials and prints and design properties like stitches and seams. Another module is ColorTime, enabling stylists to define colors and guarantee the use of consistent colors throughout their designs. The standard templates in DesignTime enable stylists to easily exchange designs and take over each other's assignments.

"QuestPDM perfectly fits our requirements internally, but also now we are about to open a new sourcing facility in Hong Kong," says Roel Brand, IT Director at WE. "Using QuestPDM, employees in Hong Kong too will have access to the Dutch office's design data. This makes it much easier to start the production of new collections, leading to increased efficiency and considerable time savings. QuestPDM is an advanced system including all the information we need. It ensures that data we use is always up-to-date; once a change has been entered, it is processed in all designs."

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Zuken Wins Order from the Transportation Systems Group of Siemens for PCB Design Software and Consultation

6 December 2005

Zuken has signed an eight year contract with the Transportation Systems Group (TS) of Siemens AG. Zuken is to provide a completely integrated enterprise wide PCB design environment for the group's Rail Automation Division. The order is worth €1.2 million.

After identifying the need for more advanced schematic and library software for PCB design, the team at Siemens TS completed a full evaluation based on demo and training sessions, followed up by a trial. Once the design team were satisfied with the functionality and solution's ability to migrate existing designs, the decision for implementing CR-5000, Zuken's enterprise wide design environment was finalized.

Dirk Lagershausen General Manager CAE from Siemens comments: "Advanced technology that can be integrated to work with our other business process, is a high priority for us. We are convinced that we will embark upon a long term partnership with Zuken to implement an entire design environment."

The CR-5000 design environment is based on a concept of combined technology that uses the same database throughout the portfolio. It is a constraints-driven tool suite aimed at designers of high complexity boards, including tools for library management, system design, board design, high-speed design, board production, advanced design for manufacturing and electromechanical design. As well as unification throughout the process, CR-5000 is also customizable. This flexibility enables it to be tightly integrated with the design and manufacturing processes already established within Siemens TS Rail Automation Division.

The singular shared database that spans across the environment has been pivotal to meeting the demands of complexity and for harnessing the benefits of integration with other business functions within the Siemens TS Rail Automation Division.

The Transportation Systems Group of Siemens AG is one of the leading international suppliers to the railways industry. The group's Rail Automation Division is based in Braunschweig and provides products and services from electrical interlockings and level crossing protection systems to power supply systems. PCB designers face issues such as miniaturization, and must respond to demands for high-speed products. Flexibility in design is also very important; with the need to be able to design simple two layers digital boards fast, while still having the capability to design digital/analog boards with up to 12 layers. In an environment where safety comes first, 100% reliability is critical.

Implementation of the migration to CR-5000 has already started at the sites in Braunschweig and in Berlin . The roll-out of CR-5000 in other sites across the globe is also planned.

For more information about CR-5000 from Zuken visit <http://www.zuken.com/cr-5000>.

This deal follows on from the strategic partnership with Siemens Automation and Drives, announced in November 2003, when Zuken was awarded a €2.5 million worldwide contract.

The Transportation Systems Group (TS) of Siemens AG is one of the leading international suppliers to the railways industry. As single source supplier and system integrator, the Group combines in its business segments Automation & Power, Rolling Stock, Turnkey Systems and Integrated Services all the expertise necessary to cover the spectrum from signaling and control systems to traction power supplies, as well as rolling stock for mass transit, regional and main line services. Extensive experience in project management and forward-looking service concepts complement our portfolio. In fiscal 2004 (ended September 30) TS generated sales of EUR4.3 billion with a staff of around 17,900 the world over.

Further information visit <http://www.siemens.com/transportation>.

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Product News

Arena Solutions Unveils New On-Demand PLM Enterprise Edition to Address Complex Demands of Manufacturers Worldwide

5 December 2005

Arena Solutions announced the introduction of Arena PLM Enterprise Edition, a new product offering that extends the benefits of Arena's on-demand PLM solution to manufacturing companies worldwide who require a rich, flexible PLM solution for their increasingly complex and unique business requirements. Arena PLM Enterprise Edition introduces easy-to-use features for advanced customization to model customers' unique business requirements; an adaptable compliance management solution that addresses current, pending and future regulatory mandates; advanced reporting features for product

performance visibility; and integration into leading enterprise application such as CAD, EDA and ERP. Arena PLM Enterprise Edition joins Arena PLM Workgroup Edition and Arena PLM Professional Edition to complete the broadest suite of on-demand PLM products available today, allowing manufacturers to choose the edition that best meets their unique needs.

Arena PLM Enterprise Edition combines the rich functionality and customization capabilities of an enterprise-class PLM solution with the value of an on-demand service to meet the complex and sophisticated needs of today's manufacturers and their globally distributed supply chains. Large manufacturers and their supply chains are increasingly realizing that on-demand PLM is not only an inherently better solution but, also the only viable model for collaborative product development as it dramatically lowers the cost, time and complexity of deployment.

Arena also announced that Air International Thermal Systems (AITS), a global tier 1 supplier of automotive heating, ventilation and air conditioning (HVAC) and power train cooling (PTC) systems, has chosen Arena PLM Enterprise Edition to support their global facilities in the United States, Australia and China. Now with Arena PLM Enterprise Edition, AITS will improve collaboration with over 800 global suppliers and bring four geographically dispersed operations together to work as one unified global company.

“Enterprises today are faced with a myriad of demands – increasingly complex business processes, compliance regulations, global outsourcing and expanding supply chains,” said Michael Topolovac, chief executive officer of Arena Solutions. “By significantly increasing the ease of customization and deployment, Arena PLM Enterprise Edition enables manufacturers to collaborate with their extended value chain in ways that are just not possible using traditional on premise PLM solutions and allows a new ecology of suppliers to flourish.”

“As a provider of a highly commoditized product, we needed a PLM solution that enabled us to have greater control over the quality and price of our product development while allowing us to get products to market faster,” said Michael Foreshe, general manager of information technology services for Air International Thermal Systems. “When evaluating providers, it was immediately clear that Arena PLM was the best solution to help us meet our goals.”

“We’ve been a satisfied Arena PLM customer since 2002,” added Foreshe. “And now as we expand our operations globally, Arena’s Enterprise Edition provides us with the customization capabilities and enhanced functionality required to handle the complexities of our business and 800+ supplier relationships, while still allowing us to benefit from faster time to market and more cost effective production that only an on-demand service can provide.”

AITS uses Arena PLM Enterprise Edition with 400 suppliers, and expects to expand to more than 800 suppliers, across several geographically dispersed locations as the centralized repository for product data and program management information. Through this centralized repository AITS provides its customers with immediate and real-time visibility into product designs. Arena PLM is also used to extensively collaborate with their extended global supply chain on business processes related to all product engineering and purchasing negotiations. With the adoption of Fall '05 Enterprise Edition, AITS will now have the ability to customize their PLM application to meet their unique global business processes

using a simple point and click interface, and more easily find, engage and collaborate with their extended supply chain.

“Our success with Arena’s On–Demand PLM solution over the last three years validates our belief that on–demand software is the best model upon which to build our IT strategy around. Moving forward, we have dedicated 70% of our IT budget to on–demand applications and services,” said Foresheew. “With our upgrade to Enterprise Edition, we’re affirming Arena’s PLM solution as the cornerstone of our IT strategy.”

“We are pleased that Air International recognized Enterprise Edition as the right solution to integrate their global product operations, and we look forward to supporting their success,” said Topolovac. “AITS is a clear example of an innovative manufacturer who recognizes the power of on–demand PLM to transform their business and create even greater value and their adoption of Arena PLM Enterprise Edition is an important validation that larger enterprises are successfully adopting on–demand solutions for even the most sophisticated and complex business processes.”

Air International Thermal Systems is a global tier 1 supplier of automotive heating, ventilation and air conditioning (HVAC) and power train cooling (PTC) systems based in Port Melbourne, Australia. It has production facilities in Australia, China the United States. Previously a wholly owned division of diversified industrial group Futuris, the company was established as a joint venture between JP Morgan Partners and Futuris at the beginning of 2005.

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Arena Solutions Ushers in New Era of Product Lifecycle Management

5 December 2005

Arena Solutions announced the availability of its Arena PLM Fall '05 release to all users, both new customers and Arena's existing 15,000 subscribers worldwide. The latest release of Arena's PLM service provides manufacturers of all sizes with an on-demand solution for even simpler collaboration with their community of suppliers; a comprehensive management solution to meet regulatory standards such as RoHS, WEEE, FDA, UL and FCC; and the flexibility to customize their PLM solution based on their unique business needs through a simple-to-use, point and click, web-based interface. Now, manufacturers can have a custom PLM solution that is cost-effective, easy to implement, and tailored to their business—all without having to write a single line of code.

The Fall '05 release also introduces Arena PLM Enterprise Edition for enterprises that require a rich, flexible PLM solution combined with the value of an on-demand service. Arena PLM Enterprise Edition joins Arena PLM Workgroup Edition and Arena PLM Professional Edition to complete the broadest suite of on-demand PLM products available today, allowing manufacturers to choose the edition that best meets their unique needs.

Because Arena PLM is delivered on demand, these feature and interface improvements are instantly available to all users. Manufacturers can focus 100% of their efforts on product innovation, not on installing upgrades or maintaining IT infrastructure.

"Manufacturers are under increasing pressure to deliver products to market faster, manage and maintain regulatory compliance, and collaborate effectively with an ever-expanding global supply chain," said Michael Topolovac, chief executive officer of Arena Solutions. "With our latest release, Arena Solutions raises the bar for on-demand PLM solutions, delivering manufacturers unprecedented value. The enhanced functionality that our family of PLM solutions provides enables manufacturers of all sizes to meet the increasing demands of regulatory compliance, such as RoHS, head-on, while providing them the flexibility to customize their solution based on their unique business requirements."

Arena PLM Fall '05 enhancements include:

Powerful Advanced Tools for Compliance Management

Arena Solutions provides the first on-demand, scalable and easy to implement compliance management solution for complying not only with current regulations like RoHS (Restriction of Hazardous Substances) but also pending and future regulations. With Arena On-Demand PLM, users can now quickly, easily, and confidently meet the July 1, 2006 RoHS deadline, as well as manage other regulatory, industry, and safety standards such as WEEE, FDA, UL and FCC. Design for Compliance (DFC) has become as important to manufacturers as Design for Manufacturability (DFM), and Arena On-Demand PLM makes these compliance tools instantly available to its users.

Arena PLM's compliance management framework provides an end-to-end solution for the entire compliance process. Manufacturers can now:

- define, apply, track and report on any regulatory, safety or compliance initiative
- flexibly and pro-actively address pending and future compliance initiatives to ensure responsible manufacturing
- gain early visibility into non-compliant products and make better business decisions regarding product inventory and supplier relationships
- leverage an on-demand service to simplify collaboration with their extended supply chain, and achieve compliance more quickly and cost effectively

"Arena understands that in today's global economy compliance is not achieved in isolation, but through a collaborative effort between a manufacturer and their supply chain," said Topolovac. "By enabling simplified collaboration and shared responsibility for product manufacturing across the entire value chain, Arena On-Demand PLM enables companies to deliver products more cost effectively, more responsibly and in a more timely fashion without sacrificing innovation."

Web 2.0-based Collaboration

With its Fall '05 release, Arena PLM extends its collaboration capabilities, already utilized by hundreds of OEMs to interact with their global supply chain, to address the earlier research and discovery phase of

supplier engagement. Arena subscribers can now find, connect and engage in new supplier relationships via the Arena Supplier Marketplace, an online directory of product design firms, contract manufacturers, component suppliers, and fabricators trained on Arena PLM.

Building upon its mission of being the fastest and easiest PLM solution to deploy and manage, Fall '05 also incorporates user interface improvements based on the latest web standards including AJAX (Asynchronous JavaScript and XML). The new AJAX-based UI provides users with a richer, and easier to use experience—similar to what they are accustomed to with common desktop applications significantly increasing productivity and customer satisfaction.

Point and Click Customization

Fall '05 introduces the capability of customized PLM to deliver the most flexible PLM solution at an affordable cost. Through a simple, point and click interface companies can now tailor their PLM solution to best match their unique product data and business processes—without having to pay high-customization costs or write a single line of code. Now companies can

- customize their data model within Arena PLM to define and classify the unique nature of their products, down to the component level. Using a simple point and click interface users can tailor the unique attributes of their product and its components—whether it's a network router or a cardiac monitoring device.
- model unique business processes tailored to their best practices, such as product enhancement requests, new part number creation, or even cost reduction improvements
- dynamically organize and present information, such as Bill of Materials (BOM) and item specifications, in customized, intuitive views and forms

"Arena has always provided the flexibility and simplicity we demanded in a PLM solution without the high cost and complexity," said Michael Foreshe, general manager information technology services for Air International Thermal Systems. "Now with their latest release and the introduction of their enterprise edition, Arena PLM can meet the complex needs of our global operations, providing us with a single product record across 4 geographies and delivering even greater value."

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AspenTech's Energy Cost Management Solution Dramatically Reduces Energy Costs for Process Manufacturers

7 December 2005

[Aspen Technology, Inc.](#) announced the launch of Aspen Energy Cost Manager, the latest in AspenTech's comprehensive range of energy management solutions for the process industries. The new solution will enable process manufacturers to achieve significant cost and environmental benefits by helping plant

sites avoid excess energy consumption in their day-to-day operations. With energy prices near record highs, Aspen Energy Cost Manager can deliver payback in less than six months.

Aspen Energy Cost Manager uses real-time operating data to identify when energy use in the plant is higher than necessary, and provides the responsible personnel with recommendations for the most favorable course of action to restore operations to a more energy efficient condition. For energy-intensive process manufacturing sites, such as a petrochemicals plant or oil refinery, customer studies show that the solution can deliver energy cost reductions of up to 5 percent.

"AspenTech has a long tradition in helping process manufacturers manage and optimize their energy consumption, using solutions for process modeling, pinch analysis, advanced process control and utilities planning and optimization," said Blair Wheeler, Senior Vice President Marketing, AspenTech. "Aspen Energy Cost Manager is an important addition to our offering, enabling companies to proactively manage their demand-side energy costs based on a clear understanding of the financial impact of their operating decisions."

"Even before its release, a major chemical customer adopted the solution as the standard for energy cost management across a division after early studies demonstrated significant potential returns," added Wheeler. "We are excited by the opportunity Aspen Energy Cost Manager represents to help process manufacturers improve their margins in increasingly costly energy markets. Excluding crude oil purchases, the cost of energy in the refining industry can now exceed 60% of the total operating cost, while in the chemicals industry a corresponding figure of 40% is now common."

Most chemical or refining processes experience significant variability in their energy efficiency, as a result of changes in process conditions, different operating strategies and poor control over wasteful practices. This means that plants are frequently using more energy than necessary, a situation which is often neglected because managers only have access to historical performance data and cannot react until it is too late.

Aspen Energy Cost Manager helps companies resolve this problem by enabling them to measure and monitor energy use in real time, comparing performance against "intelligent" dynamic targets which are varied to reflect the current operating conditions. The solution notifies users when current energy use exceeds the target, shows the cost of this deviation, including contractual obligations and penalties, and alerts the person best placed to take corrective action. A list of recommended actions is provided, with further information available if more detailed analysis is required.

Aspen Energy Cost Manager is now commercially available.

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AVEVA Presents Major New Features in VANTAGE Marine 11.6

6 December 2005

AVEVA presents a range of major new features to support the basic and detailed design activities for ships and offshore structures through the shipbuilding systems VANTAGE Marine 11.6 and Tribon M3. The most prominent new features will improve the integration of basic design and detailed design. They will contribute to new and more flexible ways of organising the shipbuilding design activities.

Bridging the Gap between Basic and Detailed Design

There is often a requirement to start cutting steel at an early stage of a shipbuilding project, sometimes even before the final approval has been obtained from the classification societies. The structural engineers work with the overall classification view of the ship while the detailed designers usually are responsible for certain individual hull blocks. This presents a dilemma in creating and maintaining two versions of the design simultaneously, one for basic structural design and one for the detailed design that supports the parts manufacturing tasks.

VANTAGE Marine 11.6 and Tribon M3 now present a solution to this problem. The systems maintain two parallel views of the design in the Ship Model database: a design view for the structural engineers and a production view for the detailed designers. The structural engineers create and maintain the design panels while the detail designers work with the production panels. The production panels are created from the design panels using the automatic block splitting facilities. After block splitting, the two views of the steel structural model are kept synchronized so that any change to a design panel will automatically impact the corresponding production panel. A late change from the classification society or the ship owner will become available not only in the basic design model but also immediately influence the parts definition work. Likewise a change to an individual part becomes known to the designers.

Subcontracting of Detailed Design Work

Many shipyards develop the basic design within their own organization while they often subcontract all or part of the detailed design work. The new features of VANTAGE Marine and Tribon support this work process by synchronizing the design and production panels when the production panel data is being delivered from the subcontractor to the shipyard. In practice, this means that classification drawings can easily be updated with changes made by the subcontractors. In the same way, data for parts manufacture and assembly is updated with any changes made by the subcontractor during detailed design.

Flexibility to Chose Production Site

Large shipyards with parallel production lines or shipyards that outsource the manufacturing of the hull need to be flexible in terms of a late choice of production facilities. Also, panel line restrictions and lifting and transportation capacities determine the maximum size of blocks and assemblies that a shipyard can accommodate. These things have to be considered when creating the parts manufacturing and assembly information. They can lead to high costs of moving a design between production sites.

With the new features in VANTAGE Marine 11.6 and Tribon M3 it is possible to create alternative block and assembly definitions from the same design using the block splitting function. The alternatives can be analyzed and the choice of production facility can be postponed until late in the process. In this way the work involved in creating the manufacturing information is minimized.

Reuse of Existing Ship Model Databases

An existing production model (i.e. a Ship Model database containing production panels) can be reused for "reverse engineering" so that non-existent design panels can be created through an intelligent merger of production panels. The newly-obtained design panels can then be split to satisfy alternative production sites. This process can be applied to all Tribon Product Information Models created in earlier versions of the software back as far as Tribon 4.

Impact on the Shipbuilding Process

In the global shipbuilding industry project execution time and flexibility are two important competitive factors. Complex ships like cruise vessels and navy ships are often subject to massive and late design changes. The management of these changes is of vital importance. Improved reuse of existing product models is another critical factor in design project management. The new features in VANTAGE Marine 11.6 and Tribon M3 will open doors to totally new ways of organising shipbuilding activities.

Availability

The new features are shipped with VANTAGE Marine 11.6 Service Pack 2 and Tribon M3 Service Pack 5 at the end of 2005.

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Cadence Completes Digital Product Line Segmentation with Introduction of Encounter GXL Technologies

5 December 2005

[Cadence Design Systems, Inc.](#) announced that it has completed its new product segmentation strategy for the Cadence® Encounter® digital IC design platform announced at CDNLive! in September of this year. The now fully segmented Cadence Encounter platform provides customers with multiple levels of technology tailored to specific levels of digital IC design complexity.

The Encounter offerings comprise three levels, Encounter L, XL and GXL. The Encounter L product series provides an easy-to-use, integrated, value-priced implementation environment for less complex, flat designs at 150 nanometers and above with gate counts below 5 million. The Encounter XL product series targets large-scale, high-performance, hierarchical designs over 5 million gates. The third series, Encounter GXL, announced today, caters to leading-edge, very high performance designs at 65 nanometers and beyond.

Three separate Cadence press releases discussing this news in greater detail were issued today.

New Cadence SoC Encounter GXL Addresses Customers' Nanometer Design Yield and Variation Challenges—Yield Aware RTL to GDS Implementation Flow Targets Leading-Edge Designs at 65nm and Beyond

Cadence Extends Synthesis Technology Lead and Announces Encounter RTL Compiler GXL—New Global Synthesis Technology Boosts Quality of Silicon and Productivity

New Cadence Encounter Conformal Low Power GXL Addresses Customer Verification Challenges—New Conformal Technology Reduces Risk of Functional Errors for Designs at 65nm and Beyond

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Cadence Extends Synthesis Technology Lead with New Encounter RTL Compiler GXL

5 December 2005

[Cadence Design Systems, Inc.](#) announced the introduction of Cadence Encounter RTL Compiler GXL, an upgraded version of the Cadence® Encounter® RTL Compiler global synthesis technology, and the top-tier of the recently announced segmented Cadence synthesis product line. This product helps designers deliver smaller, faster and cooler chips in less time. New capabilities include advanced low-power synthesis with top-down multi-supply voltage (MSV) optimization, automatic physical layout estimation (PLE), top-down retiming for high-performance designs, multi-CPU superthreading to improve customer productivity, and single-pass multi-mode synthesis.

Advanced low-power-design techniques create new challenges for traditional synthesis tools. Encounter RTL Compiler global synthesis is architected to concurrently optimize timing, area, and power, thus resulting in optimal quality of silicon (QoS), even under challenging low-power requirement. New top-down MSV optimization lets low-power designers use synthesis more easily and efficiently to design optimal voltage levels across multiple logic domains in order to determine the best solution for lowering power while meeting timing requirements. Since synthesis is aware of the voltage domains, it creates a better design for physical implementation, enabling a smooth flow.

"Voltage scaling is a great technique for reducing overall static and dynamic power consumption, but its implementation presents many challenges," said Alessandro Uguzzoni, R&D manager at Accent. "Encounter RTL Compiler top-down MSV synthesis enables us to experiment early on with different voltage domain scenarios to find the best partitioning trade-off. Its MSV-aware optimization helps greatly in achieving timing convergence during the physical implementation phase."

In order to effectively consider submicron physical effects during the early synthesis process, a new breakthrough modeling technique improves the overall QoS with better timing, area, and power. The new PLE uses innovative, proprietary methods to adaptively model physical effects before logic gates exist. This new modeling has no impact on runtime and eliminates the need for traditional wireload models.

"The problems with wireload models in today's process geometries are well-known," said Karl Pfalzer, staff engineer at ATI Technologies Silicon Valley, Inc. "But that has been the only way to effectively model interconnect delay during synthesis from RTL to gates, when the logic structure is being created. We have tried experiments on some blocks from our designs and have found that using PLE in Encounter RTL Compiler provides the best correlation with and best results out of place and route."

Retiming is a powerful optimization technique that has traditionally been used only in special high-performance designs because of difficult methodology requirements. This new capability makes retiming easy for a wide range of designs, enabling improvements in a design's frequency or area. This capability also works seamlessly with formal verification tools.

"Our V10LAN transceiver uses large digital filters that we needed to pipeline," said Ed Beers, principal design engineer at Vativ Technologies. "We integrated retiming into our top-down synthesis with Encounter RTL Compiler and we were able to reduce our pipeline register count by 45 percent versus our previous flow. Retiming in Encounter RTL Compiler enabled us to implement our design at 130 nanometers while meeting our timing and area goals. I was amazed to discover how much other tools were leaving on the table. I had thought that synthesis was pretty mature."

The superthreading capability speeds synthesis runtimes by up to three times with no impact on QoS, thus improving productivity and time to market. It makes efficient use of multiple processors or workstations transparent to the user, and guarantees identical high QoS results as a single processor run.

"Our chips are roughly 2 million instances in size," said Subramanian Krishnamoorthy, director of the Design Solutions Group at Toshiba America Electronic Components, Inc. (TAEC). "We are using Encounter RTL Compiler for preconditioning the gate-level netlist before implementing the design using TAEC's Pinnacle flow based on SoC Encounter. Fast turnaround time of this preconditioning process is critical to the overall implementation productivity. Encounter RTL Compiler's superthreading enabled us to speed this process twofold. It produces identical netlist and timing performance as the preconditioning process without the superthreading feature."

Modern chip design often requires multiple functional modes of operation and multiple power modes in addition to multiple test modes. Traditional methodologies require either manual merging of the constraints for different modes, or multiple iterative runs which may not achieve closure on all goals. Encounter RTL Compiler multi-mode synthesis enables single-pass optimization and analysis using constraints for all modes simultaneously.

"We continue to rapidly advance our global synthesis technology to raise the bar for the industry," said Dr. Chi-Ping Hsu, corporate vice president at Cadence. "This release further extends Encounter RTL Compiler's ability to deliver the fastest path to the highest QoS."

The Cadence product-segmentation strategy, announced at CDNLive! in September, provides customers with multiple levels of technology tailored to specific levels of design complexity. Cadence design platforms now offer a tiered range of products scaled to different complexities of digital IC design.

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CollabNet and Palamida Bring IP Integrity Verification into Distributed Application Lifecycle to Accelerate IP Compliance

7 December 2005

CollabNet, a provider of on-demand (SaaS) distributed software development solutions, and Palamida, a supplier of software compliance and license management, announced a partnership to enable Intellectual Property (IP) integrity verification. Integrating Palamida's IP Amplifier into the CollabNet Application Lifecycle Manager allows companies to verify IP integrity and provide code compliance as part of the application lifecycle for distributed software development projects.

"As the use of open source code continues to expand in enterprises of all sizes, it is important to know the source of the code being used in order to avoid costly development delays," said Bill Portelli, president and CEO of CollabNet. "By partnering with Palamida and making IP integrity part of the overall CollabNet application lifecycle management process, developers can now effectively evaluate and collaboratively remediate issues in their code during each stage in the development lifecycle and easily communicate compliance updates across their geographically dispersed teams."

IP integrity verification has become an important addition to the existing suite of software development assets managed by the CollabNet Application Lifecycle Manager. Along with project schedules, team communication, policies/procedures, code, and test plans, CollabNet Application Lifecycle Manager with IP integrity verification assists project teams to effectively and responsibly blend in-house and open source software in their development process.

By making Palamida IP Amplifier available inside the CollabNet user tool bar interface, development teams can request an IP integrity analysis and automatically add the test evidence to the project documentation. Development teams can maintain the evidence of their compliance with company IP policy throughout the application lifecycle and reduce the cost of remediation and IP governance over the life of the product.

"The software development process has changed, and managing the use of third-party intellectual property is an important element of the new development process," said Mark Tolliver, CEO at Palamida. "By including access to Palamida IP search and analysis technology from within the CollabNet environment, we are able to offer a simple way for geographically distributed software development teams to tackle software compliance issues."

About Palamida

San Francisco-based Palamida is breaking new ground in software compliance and license management, accelerating developers' ability to innovate based on open source and reusable software components. With the industry's fastest search and reporting against the world's largest database of open source and third-party software code, Palamida's search technology can reduce software compliance efforts from weeks to hours. Founded in 2003, Palamida is led by industry veterans and backed by leading venture capital firms. Investors include Hummer Winblad Venture Partners, WaldenVC, and Stanford University. Read Palamida's blog at palamida.blogs.com or for more information visit <http://www.palamida.com>.

About CollabNet Enterprise Edition

CollabNet Enterprise Edition, a solution for distributed application lifecycle management and software development, integrates tools for software development, project management, knowledge management,

and communication management in an on-demand Web-based software development environment. With Software as a Service (SaaS) delivery, CollabNet securely provisions the most sensitive source code and other intellectual property for leading financial services, telecommunications, information technology, and government software development projects. CollabNet Enterprise Edition is available on demand, anywhere, anytime. For more information: http://www.collab.net/products/enterprise_edition.html.

About CollabNet

CollabNet is a provider of solutions for on-demand collaborative development that enable globally distributed teams of software developers to complete software projects on-time, on-target, and on-budget. Using CollabNet, software teams can collaborate on development across multiple locations within the extended enterprise or securely integrate business partners, contractors, or offshore development firms. CollabNet enables companies to reduce costs and increase revenues by eliminating the inefficiencies and limitations of traditional LAN-based development platforms.

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EMA Expands Its RoHS/WEEE 'Design for Compliance' Solution with the Introduction of the EMA Engineering Data Management Solution

8 December 2005

EMA Design Automation™, a full-service provider of Electronic Design Automation (EDA) solutions, announced the availability of the Engineering Data Management™ (EDM™) suite to help engineering teams create RoHS/WEEE-compliant products. EDM is a database management system that enables companies to have detailed control over all product design data with specific emphasis on environmental compliance material content. The EDM environment supports various versions of RoHS data including both RoHS 5 (NIE exemption) and the general RoHS 6 requirements. The EDM system can manage all relevant product design data including both ECAD (electrical) and MCAD (mechanical) with the capability to create RoHS/WEEE reporting documentation.

EDM is an environment that provides functions such as BOM versioning, ECO generation, full library and workflow management, and document archival for the engineering work group. This gives the design engineers full control over the data enabling them to provide more consistent, higher quality information, which later can be incorporated into enterprise PDM/PLM and ERP systems.

"We've been integrating RoHS/WEEE data into companies' PCB design flows and found that they have a pressing need to manage RoHS/WEEE compliance information and product design data within their engineering teams," said Marcano. "To address the environmental compliance issues that affect today's designs we have created the Engineering Data Management (EDM) solution."

As part of EMA's commitment to mitigate the risks driven by the RoHS/WEEE directives, it has also established the EMA Services Sales Team—a focused group of professionals available to customers for consulting services and support. The EMA Engineering Data Management (EDM) suite is available now starting at \$25,000. For additional information, visit <http://www.ema-eda.com/services/EDM> or call EMA at 800-813-7494, extension 252.

About EMA Design Automation Inc.

EMA Design Automation Inc. is a full-service provider of Electronic Design Automation (EDA) solutions including software tools, consulting services, product training, and technical support for the entire PCB design process. EMA was founded in 1989 and has been a Cadence distributor since 1998. Staffed with experienced engineers, EMA offers EDA design solutions tailored to the needs of each individual customer. EMA is a privately held corporation with headquarters in Rochester. Visit EMA at <http://www.ema-eda.com> for more information.

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MatrixOne Granted Patent for Semiconductor IP Management; Comprehensive Patent Enables Collaborative Development and Component Reuse in Advanced Semiconductor Design

7 December 2005

MatrixOne, Inc. announced that the United States Patent and Trademark Office has awarded the company a patent for a system for managing reusable components, commonly referred to as IP (Intellectual Property) or virtual components in the electronics industry. The patent defines a comprehensive software application that provides a secure, high performance distributed library for cataloging, distributing, tracking, reporting and managing IP. This enables effective design reuse and the use of commercial components to meet the needs of increasing design complexity and faster time-to-market in advanced semiconductor design.

The new MatrixOne patent defines an innovative system that includes a master IP database and an IP Catalog. In addition, the patent defines:

- how this system can be securely deployed and accessed across both private and public networks;
- capabilities for IP Registration that will enable IP to be catalogued and evaluated according to defined reuse standards;
- the IP Selection capabilities that enable designers to locate IP that meets their needs and populate the work area within their EDA design environment;
- the IP Modification capabilities necessary to report, track and resolve errors or issues found in IP, and;
- the processes and capabilities that are used to manage the IP catalog, release and version the IP database and administer secure access.

"This comprehensive patent demonstrates our commitment to helping create the innovations that can solve the increasing complex product development problems faced by the global electronics industry,"

said John Fleming, senior vice president and general manager of MatrixOne's Electronic Business Unit. "Our semiconductor customers include leading large IDMs, fabless companies, IP design houses, fabs and foundries. They are all looking for innovative ways to compress development cycles, improve quality and lower costs. This patent, and the commercial solutions we have developed based on it, are enabling them to achieve these results."

MatrixOne has developed several commercial solutions for the semiconductor industry based on this patent, including MatrixOne's Synchronicity® Publisher Suite with IP Gear™. Several MatrixOne customers, including some of the world's leading semiconductor companies, use IP Gear to implement effective design reuse programs that meet the demands caused by ever-shortening cycles and increasing chip complexity.

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New Cadence Encounter Conformal Low Power GXL Addresses Customer Verification Challenges

5 December 2005

Cadence Design Systems, Inc. announced Cadence® Encounter® Conformal® Low Power GXL. This latest Encounter Conformal configuration provides the final tier of the Encounter segmentation strategy unveiled in September and is set to extend the lead that Cadence holds in formal verification. This includes important new technology to help customers validate power critical designs such as verification of aggressive low-power and synthesis optimizations, to target the challenges of advanced designs at 65 nanometers and beyond.

As customers create highly integrated devices for processes at 65 nanometers and beyond, they must design for low power to extend the battery life of hand-held devices, and to reduce system power and package costs in wired devices. Significant transistor leakage can occur at these smaller process nodes, and new design techniques are required to reduce dynamic and static power losses.

As customers adopt new tools and methodologies to address low-power design challenges, it is critically important that they are able to verify the correct implementation of low-power design techniques. Encounter Conformal Low Power GXL provides a unique combination of transistor abstraction, equivalency checking, and functional verification technology that enables customers to verify low-power designs.

"We've seen many of our client companies starting multi-supply voltage designs to meet the more aggressive challenges for low power," said Nobu Nishiguchi, Vice President, General Manager Development Dept.-1 of STARC. "STARC has adopted Conformal Low Power technology in STARCAD-21, our production flow for SoC designs for nanometer process nodes. We were impressed by the effective use of the formal verification technology that Conformal Low Power provided, with both functional and structural checks on RTL and physical netlists."

Encounter Conformal Low Power GXL can fully verify the correct implementation and functionality of low-power design techniques such as state retention and isolation. Its transistor analysis capabilities

ensure that standard cells and custom cells correctly control leakage and perform intended isolation functions. Encounter Conformal Low Power GXL also checks that logic is mapped to the correct physical power domains in a design. Its industry-leading formal verification engines help functionally verify that circuits are in the correct state to perform isolation and state retention.

At 65 nanometers and beyond, substantial leakage current can flow through unintentional transistor circuit paths known as 'sneaky paths'. Encounter Conformal Low Power GXL is able to efficiently find these paths, allowing designers to make corrections and save significant power.

"Users tell us that Encounter Conformal Low Power GXL is the best formal verification technology on the market," said Michael Chang, corporate vice president, R&D for Cadence. "Encounter Conformal Low Power GXL decreases the verification cycle, improves quality of silicon (QoS) and speeds up time to market. Cadence continues to lead the technology charge at 65 nanometers and beyond."

[Cadence](#) product segmentation strategy, announced at CDNLive! in September, provides customers with multiple levels of technology tailored to specific levels of design complexity. Cadence design platforms now offer a tiered range of products scaled to different complexities of digital IC design.

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New Cadence SoC Encounter GXL Addresses Customers' Nanometer Design Yield and Variation Challenges

5 December 2005

Cadence Design Systems, Inc. announced the introduction of SoC Encounter™ GXL, completing its Cadence® Encounter® digital IC design platform product segmentation strategy. SoC Encounter GXL adds yield as a standard design target throughout the implementation flow to address both the 'defect' and 'process variation' challenges of advanced designs at 65 nanometers and beyond.

Improving Defect Yields

SoC Encounter GXL addresses nanometer defect yield issues with new yield analysis and optimization capabilities embedded across the implementation flow. For yield analysis, a new command, reportYield, assesses full-chip or block-level defect yield losses based on factors such as critical area and cell yields. A unique yield prototyping capability enables users to choose full-chip floorplanning strategies with visibility of yield considerations before committing to a physical architecture for the chip.

"Yield analysis and optimization during implementation is critical for maximizing design yield, especially at 65 nanometers and beyond," said Satoshi Andou, general manager, Design Platform Development Division, Electronic Devices Business Unit of Fujitsu Limited. "With Encounter GXL, we are now able to analyze and improve yield at any point in the design flow and evaluate the impact of various design decisions, without leaving the Encounter platform. Encounter GXL gives us the confidence that our yield-aware design will correlate to final silicon."

For yield optimization, SoC Encounter GXL supports cell optimization in global RTL and physical synthesis using yield-aware cell libraries in either PDF Solutions' pDFm™ or a new Encounter format. For interconnect optimization, SoC Encounter GXL controls double via insertion, wire spacing and other factors concurrently during routing, instead of as a post processing step.

"Yield-aware physical synthesis is one of the highest-impact ways a design team can address chip yields," said Kevin MacLean, vice president of DFM at PDF Solutions. "Using SoC Encounter GXL with PDF Solutions' .pdfm files and pDfx-compliant libraries makes it possible for designers to easily produce more manufacturable SoC designs without compromise in other areas like schedule, timing and power."

"The correct choice of library cells can have a significant effect on production yields at 90 nanometers and below," said Brani Buric, senior director of platform product marketing and business development for Virage Logic. "Virage Logic's ASAP Logic Standard Cell Libraries with yield views will be available for use with SoC Encounter GXL on the Chartered Semiconductor 90-nanometer process in Q1 2006."

Reducing the Impact of Variation

SoC Encounter GXL incorporates analysis and optimization capabilities to manage the effects of nanometer process variation on design performance. This includes a new multimode timing capability to reduce the complexity of timing optimization in designs with multiple operating modes, increasingly common in low power and consumer designs. Cadence plans to add a concurrent multicorner analysis and optimization function in the first half of 2006, with statistical timing under development and scheduled for release in the second half of 2006.

SoC Encounter GXL also reduces overall design variation by reducing clock variation. Leveraging advanced 'mesh' techniques traditionally used in high-performance microprocessors, SoC Encounter GXL automatically synthesizes clock circuits with ultra-low susceptibility to process variation. On a high-performance communications design taped out in October 2005, an SoC Encounter GXL clock mesh provided an estimated 50 percent reduction in overall on-chip timing variation.

"Below 130 nanometers, precision clock design is critical to control hold time and skew variation over process, and across the entire design simultaneously," said Kun-Cheng Wu, Director of Design Development at Faraday Technology. "We are pleased with SoC Encounter GXL's clock mesh synthesis. With it, we have been able to quickly produce low-skew, low-variation clock structures which reach aggressive constraints."

"Controlling defect- and variation-related yields is a top consideration of designers ramping to advanced process technologies," said Wei-Jin Dai, corporate vice president, R&D for Cadence. "High-end development teams now expect the design phase to help solve this problem; not only through EDA analysis and optimization, but also through new circuit-design techniques and closer integration with manufacturing. With SoC Encounter GXL, we deliver this in an easily adoptable form to facilitate the next generation of SoC complexity and help put the Design in design-for-yield. In 1H06, we plan to introduce new DFM technology developed under Cadence's 'Catena' incubation project that will continue to meet these challenges."

"As time-to-market windows continue to shrink along with process geometries, the emphasis on making informed design choices to speed yield ramp intensifies," said Walter Ng, senior director of platform alliances at Chartered Semiconductor Manufacturing. "Bringing critical, calibrated manufacturing information into design requires close collaboration between semiconductor, IP and EDA companies. Chartered and Cadence are actively driving solutions, including SoC Encounter GXL, to help address those challenges facing leading-edge SoC designers."

Cadence product segmentation strategy, announced at CDNLive! in September, provides customers with multiple levels of technology tailored to specific levels of design complexity. Cadence design platforms now offer a tiered range of products scaled to different complexities of digital IC design.

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New Oce TDS450 Large Format Print System Boosts Workflow Productivity for Workgroup Environments

5 December 2005

Oce unveiled the Oce TDS450 large format print, copy and scan system. Offered as a printer, copier or multifunction system, the Oce TDS450 is ideally suited for walk up print/copy environments and as a workgroup solution for businesses (such as AEC firms) looking to upgrade the quality, productivity and reliability of their technical document workflow. Its flexible design, intuitive user panel and automated functions make the new system user-friendly and time-efficient.

A new high quality monochrome scanner is available with optional full color scanning capability, making both monochrome and color scanning available in one easy-to-use system. Capturing and distributing color mark-ups and red lined drawings are now as simple as scanning monochrome documents with optimum results the first time thanks to patented Oce Image Logic® image enhancement technology.

"Organizations, regardless of their size, seek to streamline the process of producing technical documents without sacrificing quality. The Oce TDS450 is easy to use, provides high quality prints, copies and scans and has a range of print submission tools that offer tremendous workflow efficiencies. The Oce TDS450 provides the flexibility to grow with any end-user environment and brings companies one step closer to an all-digital color workflow through full color scanning. The bottom line is that businesses get the output they want, when they want it, how they want it," said Sal Sheikh, Vice President, Marketing, Oce Wide Format Printing Systems division of Oce North America.

New Scanner Promotes High Quality Images and Faster Communication

In a collaborative work environment, a drawing may be marked-up or red lined to highlight changes. The Oce TDS450 easily captures this information either for immediate printing, for electronic distribution to engineers, designers, contractors or vendors, or for archiving. With the flexibility to scan in color and monochrome with one scanner, the Oce TDS450 provides a single platform that streamlines communication within an organization or across multiple sites saving hours or even days in the drawing distribution and review process. Organizations not yet ready for full color production printing can become one step closer to a future color workflow with this scanner.

Additionally, whatever the condition of the original drawing, Océ Image Logic technology ensures that appropriate detail is retained and background noise is removed at the touch of a button—leaving crisp, clean drawings. With 10 scan-to-file destination options, drawings can be scanned and distributed to the desired destination from the scanner control panel in just one step.

Design Simplicity Optimizes Workflow and Increases User Productivity

The Océ TDS450 is designed to enhance user productivity through pre- and post- processing work functions that optimize workflow. The new system minimizes time spent preparing print jobs, defining copier settings, waiting for prints and manually collating sets of drawings. The intuitive user panel and customizable scan-to-file and copy settings ensure that users get the output they require quickly and easily. With automatic features such as auto width detection, roll selection and set collation, users spend less time completing print and copy jobs and more time on their core responsibilities.

Advanced Technologies Streamline Output Production

The Océ TDS450 includes the innovative Océ Power Logic® controller, ensuring rapid processing of large files and concurrent scanning, copying and printing—thus minimizing queue length and employee downtime. Repetitive tasks are eliminated since the Océ TDS450 queue manager enables the reprinting of copy and print jobs as well as the prioritization of jobs. Additional time-saving features include the company's patented Radiant Fusing technology within the print engine of the Océ TDS450. This eliminates machine warm-up time since the system is "instant-on" so documents can be printed quickly whenever needed.

Useful Management Tools Tighten System Control

Océ provides tools and advanced security controls so users can manage who has access and control of the Océ TDS450 system, whether at the Océ Power Logic controller or from remote locations. For organizations trying to control costs, Océ Account Center software provides an effective means for cost recovery by tracking all the printing, copying and scanning activities of the system.

Availability

The new Océ TDS450 is available now. For more information, call Océ at 800-714-4427, or visit <http://www.oceusa.com/>.



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Noesis Solutions Unleashes OPTIMUS Power at AUDI

6 December 2005

Noesis Solutions announced the availability of the Parallel Modules of OPTIMUS 5.1 tightly integrated with Platform Computing's LSF grid management solution. The combination of OPTIMUS and Platform

LSF allows organizations to utilize existing software and hardware resources much more effectively in developing better-performing and more reliable products.

Several major automotive OEMs located both in Europe and in the US, have successfully implemented OPTIMUS Parallel on top of their existing Platform LSF networks. Mr. Michael Kaufmann of Audi AG comments, “We were able to demonstrate that it becomes feasible and practical to perform large-scale multi-disciplinary optimization problems – including Crash, NVH, Passenger and Pedestrian Safety applications – with OPTIMUS on Platform LSF-enabled networks. OPTIMUS is a powerful environment to perform MDO analyses on multiple clusters. Even with individual simulation times ranging from several minutes to days idle times on the cluster nodes can be reduced significantly. It thus became possible to compress our turn-around times for Multi-Disciplinary Optimization.”

“Performing Optimization, Design of Experiment or Robust Design studies requires the submission of multiple “virtual experiment” runs. The OPTIMUS Parallel Modules allow for a transparent submission of these multiple runs on a computer network on which Platform LSF has been installed”, says Mr. Nick Tzannetakis, CTO of Noesis Solutions. “The Deep-Level Parallelization capability of OPTIMUS truly exploits the power of parallelization in a Multi-Disciplinary Optimization (MDO) environment.”

Typically, an MDO process contains a sequence of multiple analysis steps. The classical approach will sequentially submit the analysis jobs one after the other. Recent approaches are parallelizing and running the complete MDO sequence on multiple CPUs. This approach often leads to significant idle times on several nodes of the network and under-utilization of the software resources. In contrast OPTIMUS’ Deep-Level Parallelization assigns individual Platform LSF queues for each analysis code that is part of the total workflow. OPTIMUS takes care of the dependencies and checks whether results of earlier analyses are available before launching the subsequent analyses. All this results in an optimal usage of the available software licenses on the network and tremendously reduces the total MDO turnaround times.

The OPTIMUS Parallel Modules integrated with Platform LSF 6.1 are available on Windows XP, Linux and UNIX platforms.

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PARTsolutions Connects Suppliers with Autodesk Users Worldwide

30 November 2005

PARTsolutions® LLC announced that it has formed a strategic partnership with Autodesk to deliver global supplier digital parts catalogs for the new Autodesk Manufacturing Supplier Content Center. This Autodesk initiative brings supplier content right to the desktop of Autodesk users, with PARTsolutions also providing direct download of those parts in native Autodesk formats, including Autodesk Inventor®, AutoCAD® and Mechanical Desktop®.

PARTsolutions’ expertise, experience, and technology provide Autodesk with the ability to host a 'live' community of worldwide suppliers. The suppliers keep their product catalogs up-to-date with changes, and add new products to the catalogs while PARTsolutions brings new suppliers into the community.

This partnership will enable Autodesk users to eliminate many of the manual, error-prone, time consuming steps in the product design process. The ability for engineers to access this content in their native format, right from their desktop creates tremendous efficiencies by assuring that accurate, orderable components are woven into engineers' designs from the beginning, freeing them up to focus on innovating and bringing their products to market faster.

"PARTsolutions is thrilled to partner with Autodesk, as their customers represent the largest CAD user base in the world. Now PARTsolutions supplier content and our enterprise solutions are even more accessible to Autodesk customers", said Rob Zesch, president of PARTsolutions, LLC.

"Engineers are far more dependent on manufactured content than ever before, and this new partnership with PARTsolutions demonstrates our commitment to meeting the needs of our global customers", said Robert "Buzz" Kross, vice president of Manufacturing Solutions Division at Autodesk.

Supplier Catalog Publishing Solutions

PARTsolutions cross-media publishing allows suppliers to publish 3D digital catalogs for access via online catalogs, CD-ROM, printed catalogs and desktop enterprise solutions. PARTsolutions sales tools provide suppliers with 24x7 access to specific information about prospects and customers downloading their products. PARTsolutions marketing programs introduce suppliers directly to hundreds of thousands of prospective customers who have immediate needs. Suppliers have the option to include their catalogs inside of the Autodesk Manufacturing Supplier Content Center, as well as their own website and other public and private portals.

Enterprise Solutions

PARTsolutions provides the entire supply chain with repeatable methodologies for Intelligent Parts Management comprised of optimized processes for part consolidation, standardization, interchangeability and design reuse. PARTsolutions enterprise users benefit from a collaborative supplier/OEM relationship that is delivered through digital catalog publishing technologies and services. The business benefits realized by PARTsolutions clients result in tighter integration with their suppliers, increased profitability, and customer satisfaction. Users access CAD native supplier parts directly on their desktop, with available integrations to ERP and PLM solutions. PARTsolutions enterprise solutions are unique in the marketplace. PARTsolutions enterprise customers include companies like Daimler Chrysler, Porsche, AUDI, MAN, MTU, VOITH, AIRBUS, SIEMENS and many others.

PARTsolutions® LLC, based in Cincinnati, Ohio and CADENAS GmbH of Augsburg, Germany, developer of PARTsolutions technology, are providers of solutions for the management of standard and commercial parts as well as cross-media, catalog publishing solutions for Internet, CD and printed catalogs. Founded in 1992, PARTsolutions is the largest supplier of 3D digital product catalogs in the world and now has over 300 2D and 3D catalogs available in the native formats of virtually all CAD systems available to engineers worldwide. Information about PARTsolutions/CADENAS can be found at <http://www.PARTsolutions.com>, or <http://www.CADENAS.de>.

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PlanView Enterprise™ Receives EMC Designed for Documentum Accreditation

7 December 2005

[PlanView](#), a provider of comprehensive IT Portfolio Management solutions, announced PlanView Enterprise is the first IT portfolio management solution to receive the EMC "Designed for Documentum" logo designation, a mark of quality and value that customers insist on in enterprise applications. PlanView Enterprise works seamlessly with the EMC Documentum platform, enabling customers to leverage best of breed content management capabilities with the leading IT portfolio management functionality.

The EMC "Designed for Documentum" accreditation can be earned by organizations in the EMC Documentum Application Developer Program that meet stringent application design and development standards for offerings developed on the EMC Documentum Enterprise Content Management platform. As a member of the EMC Application Developer Program, PlanView received specialized design consultation and guidance, along with access to dedicated EMC content management technical resources. PlanView will include specialized "Designed for Documentum" logos on packaging, marketing collateral, and other promotional materials pertaining to their accredited offering, signifying to customers that PlanView Enterprise meets high standards for architectural compliance with the Documentum architecture and leverages development best practices.

"By providing PlanView Enterprise as a packaged offering based on the EMC Documentum platform, PlanView is taking a leadership position in the industry in the area of IT portfolio management," said Rob Tarkoff, Senior Vice President of Strategy, Business Development and Alliances, EMC Software. "The offering's status as 'Designed for Documentum'- accredited demonstrates PlanView's continued commitment to the Documentum platform and the quality of its offering."

"This accreditation is yet another example of our ability to bring more high-value offerings to market that blend best of breed content and collaboration capabilities with superior IT portfolio management functionality," said Jeff Durbin, senior vice president of business solutions at PlanView, Inc. "We expect to realize significant benefits from PlanView Enterprise achieving 'Designed for Documentum' status, including offering differentiation and increased customer awareness of our joint solutions."

The EMC Documentum Application Developer Program helps ISVs, VSPs and SIs target, design, develop and go-to-market with successful offerings based on the EMC Documentum platform. As a member, partners can submit their offering to be considered for "Designed for Documentum" accreditation, which ensures their offering has met all requirements to be certified on the Documentum platform. To learn more about PlanView Enterprise and the EMC Documentum Application Developer Program, please visit http://www.documentum.com/app_portfolio.

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[PROCAD] 3DSMART Rolling Along

October 2005

Our [3DSMART product](#) is continuing to gain momentum as more and more companies discover how invaluable it is! Upside Engineering, Capital Engineering, Pembina Resources and PetroField Industries are among the latest to add 3DSMART to their already successful 2D DESIGNER software.

3DSMART is built on robust database technologies to maximize the benefits of real-time central data accessible throughout the enterprise. To see how 3DSMART can help you complete projects on time and on budget, [contact us today](#).

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Proficiency and CENIT Forge Sales Alliance and Technology Partnership

5 December 2005

Proficiency, a global provider of enterprise interoperability software and CENIT AG Systemhaus, a global IT consulting company, have entered into a sales agent agreement. CENIT will introduce Proficiency's Collaboration Gateway™, a feature-based CAD interoperability software, to its DACH (German, Austrian, Swiss) client base, offering related support and services for the solution. This agreement extends Proficiency's go-to-market strategy in the diverse European market. Proficiency will be working extensively with major design and product lifecycle management (PLM) companies in order to meet increasing customer demand for bridging incompatible development environments.

Furthermore, Proficiency and CENIT signed a technology partnership agreement where CENIT will develop technology designed to integrate Proficiency's Collaboration Gateway with SAP's mySAP™ PLM solution. "This agreement is an important milestone in Proficiency's goal of integrating design intelligence extracted from CAD models to enterprise information systems. We are proud to be partners with a company of CENIT's caliber," stated Trenton H. Brown, Proficiency's president and CEO.

"Since founding our European headquarters near Munich in 2003, Proficiency Europe started out strong and is only getting stronger," added Roland Billeter, managing director in Europe of Proficiency GmbH. "Bridging the gap between the five leading high-end design systems, our solution is built to provide significant business value to OEMs and their supply chain partners. With CENIT introducing support and service, companies will further benefit from this added value in product development."

The Collaboration Gateway is a Web-based, feature-level CAD interoperability software application that facilitates the sharing of product design information, including features, history, constraints, assembly structure, dimensions, and metadata throughout the extended product lifecycle process. This strategic product development innovation leads OEMs and suppliers in the automotive, aerospace/defense, and heavy equipment industries to significantly shorten design cycles, decrease time-to-market, and lower design costs. The Collaboration Gateway enables companies to exchange native parametric CAD models between Dassault Systems CATIA® V4 and CATIA® V5, PTC's Pro/ENGINEER® and Pro/ENGINEER® Wildfire™, and UGS' Unigraphics® NX and I-deas® NX Series.

"CENIT's PLM Solutions optimize the product development process while accelerating design cycles at the same time. Being completely neutral in the diverse high-end 3D world, we can offer Proficiency's solution to our customers thus meeting their requirements to work with the different platforms in use at their customers, partners, and suppliers," explained Kurt Bengel, CENIT's director of PLM Solutions.

CENIT AG Systemhaus is an internationally operating IT consulting company which employs over 500 people. Focusing on Product Lifecycle Management Consulting, Outsourcing, and Enterprise Content Management solutions, the company is listed in Germany's Prime Standard. Besides branches across Germany, the company has subsidiaries in the USA and in Switzerland. CENIT is Dassault's most successful PLM CATIA Software sales partner in Germany and for SAP, a special expertise partner for mySAP PLM Solutions worldwide. With digital manufacturing solutions from DELMIA, CENIT additionally offers tools for planning and simulating production systems and processes. In Document Management solutions CENIT is FileNET's biggest Services Partner in Europe. CENIT's customers are BMW, DaimlerChrysler, Audi, VW, AIRBUS, Karcher, Webasto, CONTI, Allianz, Metro, REWE and others.

Proficiency brings interoperability to the enterprise. The Company's Collaboration Gateway allows companies to effectively develop and launch new products by providing critical design intelligence to all constituents in the PLM continuum, including marketing, engineering, manufacturing, and purchasing, in an immediately useable format, regardless of the original system. This strategic product development innovation leads OEMs and suppliers to significantly shorten design cycles, decrease time-to-market, and lower design costs.

Proficiency's customers include global automotive, aerospace/defense and heavy equipment companies such as The Ford Motor Company, Boeing, and European Aeronautic Defence and Space Company (EADS). For more information on Proficiency, please visit <http://www.proficiency.com> or call 1.781.314.0500 (North America) or +49 (0) 811.55526.0 (Europe).

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SAP Announces New Partner Solutions for SAP® Business One

7 December 2005

Expanding its portfolio of partner-developed business management applications for small and midsize enterprises (SMEs), SAP AG announced 12 solutions from independent software vendors (ISVs) based on SAP Business One. The new solutions certified for integration with SAP Business One are being introduced as ISVs worldwide embrace the SAP PartnerEdge™ program for channel partners and collaborate with one another through SAP's recently launched online channel partner solution network. The announcement was made at the SAP Business One Tech Summit, a gathering of ISVs from around the world, being held at the Mission Bay Conference Center in San Francisco, California, December 6-7.

Addressing a variety of critical business and vertical industry processes, the new solutions build upon the integrated financials, sales and service and manufacturing capabilities of SAP Business One. Offering built-in integration with SAP Business One, they allow small-business owners to manage the entire company in a unified manner, without the costs and difficulties of connecting unrelated applications. The new solutions are among the first certified integrations under SAP's expanded partner program, with an estimated 200 more in the pipeline from SAP ISV partners worldwide.

Certified integration to SAP Business One helps ensure that partner-developed applications connect seamlessly with the SAP solution, offering customers assurance of software effectiveness and

compatibility. The initial partner solutions embed certified interfaces extending SAP Business One to help SMEs manage processes including:

- manufacturing modules from beas (Germany);
- EDI and XML integration from Cindercone (United Kingdom);
- job costing, bank interface and POS integration from Enprise (New Zealand);
- data migration and integration from GEMS Inc. (United States);
- radio frequency identification (RFID) from Intermec (United States);
- document management from INVU (United Kingdom);
- solution integration and performance management from Magic Software Enterprises (Israel);
- project management, controlling and invoicing from Maringo (Germany);
- manufacturing modules including capacity planning, inventory management and shop floor control from N'ware Technologies Inc. (Canada);
- internet sales and customer relationship management from Praxis Software Solutions (United States);
- warehouse management with Radio Beacon (Canada);
- logistics from Swisslog (Switzerland); professional services automation and time and billing from Tenrox (United States);
- inventory, spare parts and finished goods planning and optimization from Valogix, Inc. (United States).

"Where other vendors have largely left ISVs to fend for themselves, SAP has taken a more considered and supportive approach in recognizing the role of ISV partners and adopting a 'solution stack' approach for SAP Business One," said Remo Brunschwiler, CEO of Swisslog. "This business model matches perfectly with our strategy to offer standard logistics solutions for small and medium-sized businesses with our Warehouse One solution."

Since going live in September, the SAP PartnerEdge channel partner solution network includes more than 1,400 registered users, representing more than 35 countries. ISV partners are using the online site to share ideas on customer issues and solution extensions, develop partnerships on new offerings and

provide an overall outlet for peer feedback and support. Because the partners are free to interact and collaborate on the site without intermediation or interference by SAP, the network is unique in the marketplace, created with partner input and overseen by a committee of SAP partners.

"The online network gives us easy access and visibility into SAP's global partner network and solution portfolio and the ability to interact in real time with partners around the world," said Dave Scott, global vice president of business strategy, Intermec Technologies Corp.

More than 200 ISV representatives are attending the first-ever SAP Business One Tech Summit this week in San Francisco. Delivering the keynote, SAP Executive Board Member and Head of Product Technology Shai Agassi outlined the vision and road map for SAP Business One and the key role that partners play in extending the solution.

"Our development philosophy for SAP Business One is to keep the core product simple, powerful and flexible enough for our partners to build upon and create additional, integrated capabilities that allow SMEs to manage key business and vertical industry processes," said Agassi. "We are seeing strong traction as our partners leverage the certification process and tools we are building to support them with SAP PartnerEdge."

For more information about SAP's solutions for SMEs, please visit <http://www.sap.com/smb>. SAP channel partners interested in more detail can find information at <http://www.sap.com/channel/portal>.

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Spescom, Singularity and TiS form Partnership to Deliver Intelligent Invoice Processing Solution

December 2005

Spescom Software (<http://www.spescomsoftware.com>), Singularity (<http://www.singularity.co.uk>) and Top Image Systems (<http://www.topimagesystems.com>) have formed a partnership to deliver a solution for the intelligent capture, storage and processing of purchase invoices. This solution is based on the close integration of the eB Electronic Document Management System with the Singularity Process Platform to handle invoice storage and associated workflows, while using the TiS eFlow 3 intelligent forms processing engine to provide best-in-class recognition of the content of printed invoices.

The system is being offered as a complete solution, with implementation and support being provided through a single source. The strong return on investment offered by this approach will provide payback periods in the order of 6 months. Volumes up to 120,000 invoices per day can also be accommodated.

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Spescom Releases eB Suite 14.3.1

6 December 2005

Spescom Software, Inc, has released the latest version of its flagship product, eB Suite 14.3.1.

New and enhanced features include 24/7 reliability through automated fail over of servers; increased performance for high-volume bulk loading and import of data; and distributed vaulting to support disaster recovery and global content storage. The release also adds built-in health reporting and performance monitoring.

eB version 14.3.1 is based on the latest Microsoft and Internet technologies, and features an open architecture. It can be accessed and extended through Web Services, MS Visual Studio, and ASP.NET using the eB Application Developer SDK.

Several large enterprise customers, including Constellation Energy, participated in beta testing and are planning to implement the official release. As an early adopter, Constellation Energy obtained FCS (First Customer Ship) versions, which helped it incorporate some of the new features and enhancements into its project rollout schedules.

Constellation Energy is currently in the migration process of several million documents from a legacy system at its Calvert Cliffs Nuclear Power Plant. It has already taken advantage of the increased throughput rates of up to 42,000 documents per hour offered by eB version 14.3.1.

Alan Kiraly, vice president of [Spescom](#) product development said, "eB 14.3.1 demonstrates Spescom's leadership position and its ability to apply state-of-the-art technologies to solve real-world customer problems. Working closely with our customers and technology providers like Microsoft, we can provide enterprise-class solutions without the complexity and cost of traditional systems."

As a customer-driven organization, Spescom has worked closely with its customers to recognize new features and enhancements that help businesses compete in a dynamic and competitive world. Spescom's customer awareness program is the cornerstone for transposing customer knowledge into the eB product. This results in increased efficiencies for human performance, reliability, security, safety and the data quality processes.

Spescom Software's CEO, Keith Stentiford, added, "We are all excited about the future of eB. Along with the release, there are many new initiatives underway that will continue to differentiate us from our competition and make us a high-value partner for our customers. Spescom's ability to quickly deliver solutions for dynamic, regulated and complex applications demonstrates that we offer the best architecture available for meeting our customer needs."

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Synopsys' Sentaurus Calibration Library Incorporates Varian Semiconductor Ion Implantation Process Data for Highly Predictable TCAD Simulation

6 December 2005

Synopsys, Inc. announced the addition of the Varian Semiconductor Equipment Associates, Inc.'s ion implantation process data to its Sentaurus Calibration Library. By incorporating the Varian Semiconductor data, Synopsys has increased the predictability and accuracy of TCAD process simulation for advanced ultra-shallow junction (USJ) CMOS technology, allowing semiconductor manufacturers to reduce the overall cost and time for product development. Synopsys is the first full service EDA company to include manufacturing data directly from Varian Semiconductor, the leading supplier of single wafer ion implantation systems used in semiconductor manufacturing.

"We use TCAD to accurately predict the response of semiconductor processes and devices to variations of implant process parameters of dose, energy and angle," said Yuri Erokhin, senior director of the Global Applications Engineering Group at Varian Semiconductor. "The calibration to Varian Semiconductor equipment of implant data in the Sentaurus Calibration Library improves the accuracy of TCAD for Varian Semiconductor's customers and enables a reduction in the number of silicon runs required to achieve the established device performance targets."

Synopsys has integrated Varian Semiconductor's ion implantation process data called Secondary Ion Mass Spectrometry (SIMS) data into the Sentaurus Calibration Library. SIMS data is widely used by process development and TCAD engineers to obtain accurate measurements of dopant depth profiles; it can be directly compared to the results of 1D process simulations and has proven to be the most fundamental resource for the calibration of front-end process simulators. Comprehensive sets of SIMS profiles are essential for developing and calibrating accurate dopant implantation and diffusion models and also increasing TCAD accuracy. With the Sentaurus Calibration Library, users have, at their fingertips, a set of manufacturing data—that would otherwise require extensive processing of test wafers and SIMS characterization—for TCAD simulation, thus saving money, time and resources.

"Achieving accurate process prediction is key to making TCAD useful. Synopsys is a leader in offering predictable TCAD solutions backed by process data from leading-edge equipment vendors such as Varian Semiconductor," said Lars Bomholt, director of TCAD for manufacturing at Synopsys.

"Fundamental calibration work based on process data provided by Varian Semiconductor facilitates the use of TCAD for its customers. Working with leading semiconductor equipment manufacturers on advanced technologies like this, users can better optimize semiconductor process technology and improve yield."

TCAD simulations are used by all major semiconductor companies to develop and optimize semiconductor technologies. TCAD is also used to identify potential yield problems that need to be addressed in the process design prior to volume production. Through proper calibration with prototype wafers and measurement data, TCAD can accurately predict the behavior of silicon in the manufacturing line for new technology nodes. This information, coupled with design tools, enables Synopsys to reach beyond the traditional boundaries of EDA by identifying and addressing manufacturing problems early in the design process. Ultimately, higher yield can be achieved with Synopsys' bi-directional link that provides a bridge between design and manufacturing, all the way from place and route to physical verification (RET—resolution enhancement technology), mask optimization and TCAD.

Availability

Synopsys' Sentaurus Calibration Library, including Varian Semiconductor process measurements, is available now.

Technology CAD (TCAD) refers to the use of computer simulation to model semiconductor processing and device operation. TCAD provides insight into the fundamental physical phenomena that ultimately impact performance and yield. Synopsys DFM solution incorporates TCAD to provide a bi-directional link between manufacturing and design.

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Tacton Configurator Helps Alo Keep Prices and Products Up-To-Date and Available

December 2005

Alo AB is the world's leading manufacturer of front loaders and associated implements. Some 90 percent of its total production goes to export. The company is represented in more than 30 countries and has a leading position in 10 of them. Sales for 2004 amounted to some 24,000 loaders and 35,000 implements. Since the range of hydraulic systems, sub-frames and tractor models change constantly, it is vital that product catalogs and prices are kept up-to-date and available.

Alo has now invested in a configurator from Tacton, first and foremost for two reasons:

“Partly because we want a simple way of creating internal pricelists, and partly because we want support for configuring front loaders,” says Urban Hadarsson, Sales Director at Alo.

Since there are many tractor manufacturers and, moreover, many different models of each brand, the range on offer and customer demand change daily. One of Alo's problems in the past was the expensive production of catalogues and associated pricelists.

“We no longer need to send out large volumes of catalogues, but above all we avoid the problem of pricelists becoming out-of-date even before they have left the printing presses,” says Urban Hadarsson.

With Tacton Configurator, Alo employees can handle all prices in local currency in a single place –the ERP system Movex. Configuration data is handled by the PLM system SMARTEAM, the tool that keeps all information related to a product's entire lifecycle in order. With Tacton Configurator it is easy to see what fits with what; how loaders and tractors fit together, what accessories and implements are available and how they are attached to the loader depending on make, model and year of manufacture.

“Within a short period of time, the configurator is to be made available to all of the company's dealers. It is therefore also advantageous that the system is available around the clock, since the company operates in markets in various time zones,” says Urban Hadarsson.

The implementation is taking place in three phases. In the first phase, users can configure via a Web browser, where price details are fetched from Movex and configuration data from SMARTEAM. Phase

two covers quotes handling and, in phase three, it will also be possible to place orders via the configurator, which are passed on to Movex.

“Alo is an excellent example of how a configurator can solve immediate and salient problems that can be quite expensive for companies. In this case, it is about handling price and product information and the creation of catalogues, as well as in the long run being an invaluable aid for binding different partners and dealers closer to the company and supporting them in their sales efforts,” says Christer Wallberg, CEO at Tacton.

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TCS Announces Global Partnership with SAP to Deliver Adaptive Manufacturing Solutions

5 December 2005

Tata Consultancy Services Limited (TCS) announced a global partnership with SAP AG to deliver Adaptive Manufacturing solutions utilizing SAP® xApp Manufacturing Integration and Intelligence (SAP® XMII) and a set of TCS' industry specific composite applications. TCS also announced that its software tool for plant information integration—which will form the basis for these composites—was certified as "Powered by SAP NetWeaver®." The announcement was made in conjunction with SAP's third annual Industry Analyst summit, being held in Las Vegas, Nevada, December 5-6.

"This partnership brings together a comprehensive solution from SAP, with a compelling global delivery model and rich manufacturing solutions domain expertise from TCS," said Sudipta Bhattacharya, senior vice president for manufacturing and PLM solutions, SAP AG. "We look forward to helping our customers further embrace our Adaptive Manufacturing strategy and enhancing their manufacturing competitiveness, while lowering the TCO on their manufacturing infrastructure."

The SAP xMII solution was launched by SAP in October 2005 following the acquisition of Lighthammer. The SAP xMII composite application helps manufacturers become more adaptive by connecting mySAP™ ERP to the plant floor in real time and delivering actionable intelligence. This solution is typically implemented within 4 to-10 weeks per plant.

[TCS](#) has already commenced the ramp-up of a delivery team to support this initiative. In addition to providing the implementation and support services, TCS also announced its decision to set up a dedicated team to develop 'composites'—preconfigured industry or application-specific templated software solutions which are based on the SAP NetWeaver® platform and enable rapid implementation and easy customization and support. This will be done in close collaboration with SAP's development team in India and in Germany. In addition TCS' software tools for plant information integration—which will form the basis for these composites—are as of today "Powered by SAP NetWeaver." certified.

We believe this partnership will add tremendous value to our customers around the world. TCS has brought together its significant strengths on the SAP technology stack, , with its engineering expertise in shop-floor systems and solutions. This will allow us to comprehensively address our customer's needs for

seamlessly integrating enterprise and shop-floor information", said Ravi Gopinath, Vice President of TCS' Engineering and Industrial Services business and global head of its Manufacturing Practice.

The solution and services will be offered to SAP's installed base of ERP users, Lighthammer users and TCS' customers in the discrete and process manufacturing sector worldwide. As part of a joint go-to-market plan, the companies will specifically target industries that face stringent regulatory and/or manufacturing performance challenges that demand increased visibility to plant information for analysis, reporting and decision making. The pharmaceuticals, chemicals, utilities and automotive sectors have been identified as targets for this initiative.

More than 20% of TCS' revenues are from the manufacturing and utilities sectors. TCS employs more than 2000 consultants in its SAP practice, and over 3000 engineers in its Engineering and Industrial Services BU.

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Theorem's Latest Translators Match CATIA V5 Development

5 December 2005

CAD data exchange specialist Theorem Solutions continues to match latest market requirements with the upgrading of its CADverter product suite to provide bi-directional translation between CATIA V5's newly-introduced Revision 16 and other leading CAD and visualization systems.

Available immediately, the new versions of Theorem's CADverter offer fast and accurate translation of CAD data between CATIA V5 R16 and Unigraphics NX2 and NX3; I-DEAS 10, 11 and 12; Pro/Engineer; Parasolid; CADD5 5 and 4X; ICEM; as well as ProductView and JT visualization formats.

Theorem's commitment to keep pace with the latest releases of all leading CAD systems is based on its use of application development utilities provided and supported by the design systems vendors themselves. This not only ensures parallel development of new CADverter products, but also close compatibility with fast-evolving and increasingly capable CAD systems, in this case CATIA V5 R16.

The latest CADverter products will be freely available to existing Theorem customers with a current maintenance agreement, as well as to all new customers. They will also be made available to other Theorem users by special agreement.

Announcing the new series of CADverters for CATIA V5 R16, Theorem's General Manager, Keith Jeacock said: "We are delighted to be shipping these translators to our customers so soon after the release of the new revision of CATIA. Our extensive pre-release testing confirms that migration to the latest CADverters will be accomplished by users very easily."

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think3 Integrates Autodesk Inventor® Series to thinkteam PDM Tool, Enhancing Vendor-Neutral Capability

6 December 2005

[think3](#) announced added functionality to thinkteam, the product data management (PDM) component of its thinkPLM® suite.

thinkteam now complements Autodesk's Inventor® with a module that helps designers manage product information, specifically 3D models, and integrate existing functions without changing operating methods. think3 already offers vendor-neutral capability for CAD/CAM systems Pro/ENGINEER, AutoDesk's AutoCAD, and SolidWorks® 3D Modeling enabling designers to manage multiple versions of technical drawings from these incompatible systems. The new version of thinkteam for Inventor is now available.

thinkteam for Inventor introduces a single access point for all product data, including model and 2D drawing archives. The powerful, easy-to-use search functions enable information to be found quickly and reliably. Errors caused by using incorrect or outdated information are virtually eliminated. Also eliminated are errors caused by concurrent modifications to the same drawings by different designers. thinkteam for Inventor enables designers to assess the impact of modifications by automatically managing links between drawings and the product's Bill of Materials (BOM). All these advantages help to improve design automation, reduce time-to-market, increase efficiency and control, and improve design quality, achieving the goal of "do it right the first time."

"Designers often must manage multiple versions of technical drawings as a result of using various CAD programs simultaneously," said Eugenio Vacca, thinkPLM product marketing manager, think3. "Further, data used during the product development process can come from many disparate sources. These challenges are solved with thinkteam, which allows all product information to be managed in a single, integrated environment. And now customers who use Inventor are able to benefit from thinkteam's value in the product development process."

thinkteam includes additional unique functionalities that greatly improve data management and product development processes:

- *Research and Import:* thinkteam Search functions are available to designers using the thinkteam toolbar. Designers can select and directly import information stored in the archive into the current session of an Inventor document. The Project Browser ensures easy and rapid access to data by grouping together standard data, e.g., the data for a specific product, company department and supplier.
- *Archive Management:* With the Import into Project function, an assembly stored on the file systems can be opened and imported into thinkteam, as well as all sub-assemblies and components, recovering information used by other data management systems such as Autodesk Vault.

- *Component-Document Link*: Component information can be defined and the 3D model information for the component can then be drafted automatically, while the link is automatically maintained.
- *Engineering BOM*: thinkteam for Inventor defines and updates the Engineering BOM, according to the geometric information from the 3D model, by automatically compiling BOM information such as quantity.
- *Document BOM*: thinkteam for Inventor automatically creates and updates the Document BOM, using existing references between the 3D models defined in Inventor.
- *Modification Impact Analysis*: Standard thinkteam functions can assess the impact of modifications by displaying an assembly, including components not yet issued. This permits geometric review of assembly form, fit and function when the component is modified.
- *Display and Markup*: With optional thinkview functions, all Inventor drawings can be distributed and displayed without installing Inventor on each workstation. Using the markup functions, notes and comments can be added to Inventor drawings to evaluate a modification before implementation.
- *Printing*: thinkprint functions allow Inventor drawings to be printed on company output peripheral units, without having to configure printers and plotters on each individual workstation.

think3's thinkteam PDM functionality supports Inventor 9 or later.

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UGS Ships Solid Edge Version 18; New release addresses 2D, PDM and CAE needs in the mid-market

5 December 2005

UGS Corp. announced it is shipping the English version of Solid Edge® Version 18 software to customers worldwide.

Solid Edge® digital product development software is part of the new UGS Velocity Series™ portfolio, the industry's first comprehensive, preconfigured portfolio of digital product design, analysis and data management software for the PLM mid-market. UGS will ship Solid Edge in nine additional languages throughout the next 10 weeks.

“With a new packaging model as well as hundreds of enhancements for V18, Solid Edge once again raises the bar on delivering performance-enhancing tools that are of immediate value to our customers,” said Adrian Scholes, director of Solid Edge Product Marketing, UGS.

New Functionality Addresses the Mid-Market

- *New Standard Set in CAD/PDM Integration:* A new Solid Edge Embedded Client provides seamless and transparent connectivity between Solid Edge and Teamcenter® software, including the newly announced Teamcenter Express solution for more advanced workflow needs.
- *Analysis Key to New Enhancements:* Solid Edge V18 builds in preconfigured, best practices for finite element analysis with Femap® Express software. Engineers can now analyze and validate designs much earlier in the design cycle. Femap is the world's most popular PC-Based CAE application.
- *2D Diagramming Provides Comprehensive 2D and 3D in one System:* V18 provides a new diagramming capability that leverages industry-standard 2D libraries. This extends Solid Edge's robust standalone 2D drafting and 3D design capability to eliminate the need to maintain separate 2D and 3D CAD systems for AutoCAD users.

For more information, visit <http://www.ugs.com/velocity> or <http://www.ugs.com/solidedge>.

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UGS Provides New Digital Manufacturing Solution for the Greater China Market to Boost Manufacturers' Productivity, Lower Operation Costs and Facilitate Regulatory Compliance

6 December 2005

UGS Corp. announced its commitment to the Greater China digital manufacturing market with the local launch of Tecnomatix™ Version 7 software for Electronics that enables customers to optimize manufacturing performance while ensuring regulatory compliance.

To support Greater China's global manufacturing leadership, UGS serves the local market through digital manufacturing competency teams in Shanghai, Shenzhen and Taiwan. UGS has also expanded its Shanghai-based development organization to focus on regional localization and platform support.

UGS worked closely with key customers in Greater China to ensure its release met critical business requirements for the market, particularly in regulatory compliance, by extending the solution's ability to capture and trace virtually every manufacturing event from component level to final product shipment.

“We have worked with UGS over the past year, implementing the Tecnomatix for Electronics solution eight months ago,” said James Zhu CIO of Alcatel-Shanghai Bell. “UGS has demonstrated a deep understanding of electronics manufacturing and has proven its ability to deliver critical solutions. We are very pleased with their progress and believe that this new release will further facilitate our compliance efforts by providing a complete manufacturing traceability solution.”

“Being in the fastest growing electronics manufacturing region, Chinese manufacturers need tools to deal with an increasingly complex business environment,” said Hans-Kurt Lübberstedt, executive vice president of Asia Pacific, UGS. “Tecnomatix for Electronics Version 7 helps Greater China customers transform their process of innovation and is a major milestone in our commitment to this market. UGS is now uniquely positioned to address this market’s core business requirements, enabling process planning improvement and increasing production quality while facilitating stringent regulatory compliance.”

Integrated functionality tailored to electronics industry needs

Tecnomatix for Electronics automates and streamlines all key product planning and execution processes, enabling electronics manufacturers to systematically enhance product delivery, cost and quality in an increasingly competitive industry and challenging regulatory environment.

§ **RoHS (Lead-Free) compliance support**

As the RoHS deadline approaches, UGS has worked with global customers in developing MES solutions that facilitate compliance strategies by assuring that production is compliant from component level through final product assembly.

§ **Stockroom to ship traceability**

Tecnomatix for Electronics provides a custom designed traceability solution for electronics manufacturing by collecting stockroom to shipping traceability at the component, board, surface mount technology (SMT) line and final box assembly level.

§ **Real-time production control**

As a web-based, out-of-the box solution, Tecnomatix for Electronics can interface directly with today’s electronics shop-floor, including the most commonly used production equipment, enabling real-time production control and improving overall equipment efficiency.

§ **Facilitates continuous process improvement**

Tecnomatix for Electronics facilitates continuous process improvement by designing, capturing and reusing best manufacturing strategies that eliminate errors during production launch and shorten the durations of new product introduction (NPI) efforts.

§ **Optimize line setup for high mix production**

Tecnomatix for Electronics allows manufacturers to achieve common setup across several manufacturing jobs which may result in some cases in significantly increased manufacturing uptimes of 50 percent or more.

Please visit <http://www.ugs.com/products/tecnomatix> to learn more about Tecnomatix for Electronics.

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