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Acquisitions

Autodesk Completes Acquisition of NavisWorks

9 August 2007

[Autodesk, Inc.](#) announced it has completed the acquisition of NavisWorks for a purchase price of \$26 million, plus a working capital adjustment. NavisWorks is a privately-held company based in Sheffield, England, that provides software for 3D coordination, collaboration and sequencing in design and construction. This acquisition extends Autodesk's 3D software leadership in the architecture, engineering, construction (AEC), shipbuilding, and plant design industries.

Autodesk and NavisWorks plan to jointly develop and deliver an even more comprehensive suite of solutions for design and construction. The addition of NavisWorks technology to the Autodesk portfolio will help enable Autodesk customers to aggregate design information from multiple platforms, including both Autodesk and non-Autodesk solutions.

"The acquisition of NavisWorks demonstrates Autodesk's efforts to redefine design and extend the value

of design data," said Jay Bhatt, senior vice president, Autodesk AEC Solutions. "Autodesk remains committed to providing the industry with tools like NavisWorks that help AEC professionals consolidate disparate forms of data in order to execute on their mission critical workflows."

Business Outlook

This transaction is expected to decrease targeted GAAP earnings per diluted share by \$0.01 in fiscal 2008. Excluding in-process R&D expenses and the amortization of acquisition-related intangibles, this transaction is expected to have no impact on targeted non-GAAP earnings per diluted share for fiscal 2008.

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MSC.Software Enters the Computational Fluid Dynamics (CFD) Marketplace With the Acquisition of pioneerSOLUTIONS, Inc.

7 August 2007

MSC.Software announced the acquisition of [pioneerSOLUTIONS, Inc.](#) Through this acquisition and the SimEnterprise open SOA, MSC.Software is able to deliver to its customers, an all-inclusive platform for multidiscipline simulation including fluids, structures, thermal, acoustics, motion and mechatronics. Through its Open CFD approach MSC.Software is now positioned to be the first company to deliver an all-in-one common user environment through the SimEnterprise simulation platform that covers fluids applications such as fluid flow, heat transfer, aerodynamics, climate control, chemical mixing, and fluid structures interaction (FSI).

"MSC.Software is pleased to announce this strategic acquisition as we enter the CFD marketplace with our Open CFD solution," said Bill Weyand, chief executive officer for MSC.Software. "Today there are over 40 CFD solver tools in the market, creating separate models for CFD. This is an outdated and costly approach. Customers want to be able to work with CFD in a single, multidiscipline environment, with a common and consistent work environment across all the disciplines, enabling them to drive innovative products to market faster."

"We are very excited to join the MSC.Software team and committed to bring pioneerSOLUTIONS' passion for simulation based design and abstract modeling to the SimEnterprise products," said Bruce Webster, founder and CEO of pioneerSOLUTIONS. "FluidConnection, our innovative OpenCFD product, fits perfectly into MSC.Software's SimEnterprise strategy complementing its simulation based design paradigm with abstract modeling for CFD. This combination will not only extend SimEnterprise to be CFD compliant, but will do so in ways that MSC.Software's customers will have unprecedented ease of use, reuse, flexibility and choice. This acquisition is a win/win for us, our customers and the CAE/PLM community at large."

"The acquisition of pioneerSOLUTIONS by MSC.Software is great news," said Jose Nazario, Senior Technical Specialist, [John Deere](#). "We have successfully used FluidConnection for years to automate our development process and CFD simulations. FluidConnection becoming integrated into the advanced SimEnterprise environment will open a variety of multi-disciplinary solutions important to reliably predict our products' performance for different environments. We look forward to the extended capabilities of FluidConnection and SimEnterprise."

"Realizing a revolutionary idea like our Magenn Air Rotor System (MARS) family of lighter-than-air wind turbines represents many challenges," explains Mac Brown, CEO of [Magenn Power Inc.](#) "Through

the employment of FluidConnection for CFD analysis, one reusable Abstract Model allows us to very efficiently and economically investigate the performance of various design alternatives and turbine sizes. A combination of FluidConnection and SimEnterprise will enable advanced multidiscipline simulations for comprehensive virtual tests."

This best in class approach to CFD breaks the commonly used approach of disconnected one-off CFD analysis and leverages SimXpert and SimEnterprise investments of common data model, common user environment, knowledge capture and re-use, and multidiscipline enabled solutions. Pioneer's FluidConnection, already proven in major automotive, commercial and heavy machinery applications and recognized as a best practice by industry leaders, is deliverable now in SimEnterprise, and as a SimXpert workspace in early 2008.

"[MSC.Software](#) continues its leadership role in enterprise simulation by making strategic acquisitions, such as this one, and providing a CFD simulation environment that works with multiple industry-preferred commercial and custom CFD solvers through an open CFD approach," said Frank Kovacs, vice president, strategy & business development. "Combination of MSC and pioneerSOLUTIONS technology and talents will provide the market with a compelling integrated platform for true multidisciplinary simulation."

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CIMdata in the News

CIMdata in the News: "UGS PLM Software Appoints New President"

6 August 2007

Ed Miller, President of CIMdata, shares his observations on UGS's strategic plan for 2008 in a recent article:

CIMdata's Miller told *Managing Automation* that he expects that UGS' plans for 2008 will focus on leveraging the acquisition by Siemens to gain a footing in the automation market, as well as to deliver PLM services to the Siemens customer base.

Miller also expects the company to focus on its major [product announcements](#), including the first Teamcenter 2007 customer deliveries.

"We expect to see a real push of Teamcenter 2007, since that's the product that delivers on the roadmap announced when UGS was first formed" after being spun out from EDS, Miller said.

Another key area of focus, Miller predicted, will be Tecnomatix, which provides the digital manufacturing bridge between UGS' CAD offerings and the factory floor, "essentially providing a way to directly link PLM functionality with Siemens' control products," and enabling PLM to increase its value to the factory floor.

"A&D is a giant business with the market presence to establish more credibility for PLM in the manufacturing world," Miller said. This will translate into benefits not only for UGS, but also for the entire PLM industry, including UGS rivals Dassault Systemes and PTC, he said.

The article provides details about an internal memo to UGS PLM Software employees announcing a new president and Siemens Automation and Drives management board's approval of a strategic plan for 2008.

CIMdata PLM Late-Breaking News

To learn more, please access the article [here](#).

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CIMdata in the News: “SAP Challenges Oracle on PLM”

10 August 2007

“SAP Challenges Oracle on PLM” in *Computer Business Review-UK* explores the competition between Oracle and SAP in the PLM market noting that both companies are interested in this market because it is a high growth as shown by CIMdata’s research:

Recent research by CIMdata indicated that the worldwide PLM market grew by 10.4% in 2006, to reach \$20.1bn. It is expected to make \$30bn by 2011.

To learn more, please access http://www.cbronline.com/article_news.asp?guid=81CD4D57-AE69-4710-8275-D2376D635BD9

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CIMdata in the News: “SAP Plots PLM Roadmap”

9 August 2007

“SAP Plots PLM Roadmap” in *Managing Automation* focuses on the strategy behind SAP’s PLM Roadmap for the next three years.

In the article CIMdata’s President, Ed Miller, comments:

More than a response to Oracle, SAP’s announcement is recognition, first, that the PLM market continues to grow rapidly and, second, that “SAP has some weaknesses in the PLM portfolio that they need to shore up,” said Ed Miller president of CIMdata Inc., a PLM consulting firm. “SAP has been amazingly candid in looking at both its strengths and weaknesses in the PLM space,” Miller said. “This is the most significant announcement from SAP in the PLM space to date.”

To learn more, please access the full article at

http://www.managingautomation.com/maonline/news/read/SAP_Plots_PLM_Roadmap_29969

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Reminder to Vote on the CIMdata Opinion Poll about the Current State of PLM Education

August 2007

To vote, please visit <http://www.cimdata.com/research/polls/polls.php>

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.

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Company News

MasterGraphics Announces Strategic Partnership With 4D Technologies

8 August 2007

[MasterGraphics](#), design process experts and a leading Midwest supplier of design data solutions to the manufacturing, education, building and civil engineering industries, has partnered with 4D Technologies to offer the Autodesk Inventor® 2008 Tutorial Series streaming online or on DVD.

Through this strategic partnership, MasterGraphics allows their clients to receive a complete 127 lesson, 14-hour introduction to Autodesk® Inventor 2008 online or on DVD. Combining these video tutorials with instructor-led training furthermore creates a blended learning environment that can enhance the classroom experience: students can watch tutorials in preparation for face-to-face training, or they can review them afterward to reinforce concepts covered in class. This blended learning enhances the classroom experience and helps ensure that users get the maximum return on their software investment.

The [Autodesk](#)® Inventor 2008 Tutorial Series is led by Daniel Banach, MasterGraphics' Director of Professional Learning, and walks viewers through menu and tool layouts, styles and projects. In-depth chapters focus on Sketch, Constraining, Dimensioning, Advanced Part Modeling Techniques, Design Automation Techniques, Sheet Metal and much more. The stand alone video tutorials do not use or require Autodesk® Inventor Tutorial Services.

"The online and DVD learning options expand our already strong training capabilities," said Michael Wilkes, President of MasterGraphics. "We pride ourselves on being an industry leader with a strong reputation in professional learning and training, and this strategic partnership is proof that we are maintaining our ability not only to serve our clients with the most flexible solutions available, but to give them proper instruction to fully utilize the tools we provide them."

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Mentor Graphics Sponsors Research Chair at Lahore University of Management Sciences

7 August 2007

[Mentor Graphics Corporation](#) signed an agreement with the Lahore University of Management Sciences (LUMS) in Lahore, Pakistan, to create a three-year Mentor Graphics Research Chair for Embedded Systems for advanced-level research into embedded software architectures and techniques. At LUMS, Associate Professor of Computer Science Dr. Shahid Masud will be the focal point for this initiative in embedded systems.

"Working closely with industry colleagues to ensure that our programs are tuned to the most current business needs is a key aspect of LUMS philosophy," said Dr. Zahoor Hassan, vice chancellor of LUMS. "This agreement with Mentor Graphics will not only help develop state-of-art projects at LUMS in this important domain, but it also will lead to the promotion of industry-driven research in Pakistan. We are grateful to Mentor Graphics for their support and are confident that this agreement will form the basis for a mutually beneficial long-term relationship between the two organizations."

"As an EDA industry leader, Mentor Graphics is committed to having a global impact. The sponsorship of Dr. Masud will greatly benefit the electronics and embedded technology industry and the Computer Science department at LUMS specifically," said Gregory K. Hinckley, president of Mentor Graphics.

“Mentor believes that the success of the industry is dependent upon highly skilled engineers, and the three-year Mentor Graphics Research Chair of Embedded Systems proves our commitment to global academic research.”

About The Lahore University of Management Sciences

The Lahore University of Management Sciences is a national university, established in 1985 by sponsors belonging to the country's leading private and public sector corporations. LUMS currently has the following focus areas where active research is being carried out: Computer Vision, Embedded Systems, Artificial Intelligence, Multimedia Systems, Networks and Communications, Software Engineering, Theoretical Computer Science and Computer Science Education. For more information, please visit <http://www.lums.edu.pk>.

About Dr. Shahid Masud, Mentor Graphics Chair of Embedded Systems

Dr. Shahid Masud received his M.Eng.Sc. degree in Electronics from University of New South Wales, Sydney, Australia, and Ph.D. degree in Electrical Engineering from the Queens University, Belfast, UK. He was a Senior Design Engineer at Amphion Semiconductor Ltd., UK, before joining LUMS in October 2002. He has several years of research and development experience in the design of VLSI systems for image and video coding and computer interfacing. He has published over thirty refereed papers internationally and holds three patents in VLSI design. He is a member of IEEE, IEE and a Chartered Engineer.

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MSC.Software's New North American Channel Program Signs 16 New Partners

10 August 2007

MSC.Software, announced the signing of 16 new channel partners since its inception six months ago. These partners will expand the company's sales reach by industry, territory and into the SMB market and offer a wide range of the company's enterprise simulation solutions including the recently introduced, SimOffice, a channel only desktop driven computer aided engineering (CAE) solution that revolutionizes analyst productivity

Representing the entire North American market from Northern Canada to Mexico these new partners will provide sales, support and training to customers. Partners signed include Maverick Solutions, Triumph Engineering, VI-Grade, Pratt & Miller, Metal Forming Analysis Corporation (MFAC), Atkinson Design, Optimec Consultants, Biomechanics Research Group (BRG), Innova Engineering, Integrated Product Development Group (IPDG), Boundary Systems, Peritus Technology, Ray Amador, SMC Solutions, Impac Systems Engineering, NASCO Tek and INCAT.

"MSC.Software is pleased to partner with some of the most successful CAE partners across North America to bring simulation to both large and small businesses," said Alf Goebel Vice President of Global Channels, MSC.Software. "These partners bring a wealth of expertise that allows us to expand out of our traditional direct sales model and expand our reach into highly specialized markets including automotive and aerospace suppliers."

"By partnering with [MSC.Software](#) we are able to offer the company's powerful SimOffice solution to our customers," said Victor Nassar, President, NASCO Tek, Inc. "SimOffice is designed for a wide range of manufacturers, from SMBs to larger enterprise companies that need CAE capabilities to meet the growing demands of their customers. SimOffice provides a cost-effective, desktop-based CAE

solution that revolutionizes design analysis and digital simulation productivity by enabling users to work faster with modern Microsoft type interface."

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Product Designers to Strut Their Ingenuity in Create the Future Design Contest

6 August 2007

The Create the Future Design Contest sponsored by SolidWorks Corporation and NASA Tech Briefs is accepting entries from inventors around the world.

Engineers and product designers have until Oct. 15, 2007 to submit their ideas for the next invention that could change how we work, play, and live. In its sixth year, the contest celebrates entrants' abilities to explore new ways to design the as yet unimagined. Aside from the \$20,000 grand prize, the contest will award a new powerful HP workstation to each of the category winners, and \$250 to the top 10 most visited entries. To submit an entry or find out more information about the Create the Future Design Contest, visit the Web site (<http://www.createthefuturecontest.com/>). Other contest co-sponsors include COMSOL, Hewlett-Packard, and the Hong Kong Polytechnic University.

"We want product designers to push the limits of their creativity and pursue the concept of the 'absurdly ideal' design," said Rainer Gawlick, [SolidWorks](#) vice president of worldwide marketing. "That is, we want them to discover the best solution to a design challenge, no matter how far-fetched it may seem. That creativity is the spark behind many of our greatest inventions."

Contest entrants have six categories to choose from: machinery, equipment, and component technology; consumer products; medical; safety and security; transportation; and sustainable technologies. A panel of expert judges will evaluate entries based on innovation, marketability, manufacturability, and cost effectiveness. Winning ideas can include products that are entirely conceptual, or in prototyping or early production. The key criteria will be bold alternatives to conventional approaches.

Qualified entries will include a text description (500 words or less) on an idea for a mechanical or electro-mechanical product in the categories above. They should also include a 30-word abstract of the idea and a 30-word description of the problem solved. Finally, they should have one or more visual illustrations (regardless of format, i.e., CAD file, sketch, etc.) of the idea.

"In five years this contest has been the seed bed for innovative designs that could someday be ubiquitous," said Joe Pramberger, publisher of NASA Tech Briefs. "We expect over 1,000 entries from more than 40 countries this year, as engineers and product designers put their skills on display and share creative ideas."

About NASA Tech Briefs

NASA Tech Briefs is an official publication of the National Aeronautics & Space Administration. The monthly magazine features exclusive reports of innovations developed by NASA and its industry partners/contractors that can be applied to develop new/improved products and solve engineering or manufacturing problems. Authored by the engineers or scientists who did the work, the briefs span a wide array of fields, including electronics, physical sciences, materials, computer software, mechanics, machinery/automation, manufacturing/fabrication, mathematics/information sciences, and life sciences.

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Events News

Autodesk Supports Architectural Designers at VisMasters 2007

9 August 2007

Autodesk, Inc. will be supporting designers through sponsorship of the VisMasters Design Modeling and Visualization Conference ([DMVC](#)), to be held in San Diego from August 9 to 11, 2007. VisMasters DMVC conferences are hosted in North America and Europe. These events offer professionals from the design, modeling and visualization industries a platform to learn, network and influence the direction of their industries.

Leading design firms around the globe are relying on Autodesk's solutions for architects, including [Autodesk](#) 3ds Max modeling, animation and rendering software and Revit Architecture software for building information modeling (BIM). Firms are adopting 3ds Max as a companion to Revit Architecture in order to produce compelling 3D visualizations that help to detect problems earlier in the design process and facilitate client approval.

"Autodesk is proud to support VisMasters 2007, a conference which fosters the growth and advancement of architectural visualization," said Marc Petit, Autodesk's Media & Entertainment senior vice president. "3D visualizations created with Autodesk 3ds Max allow architects to experiment with the form, function and context of their design concepts long before they are built. With the combined power of Revit Architecture and 3ds Max, architects can predict and refine the look and behavior of designs in the schematic and development stages of the design process."

Doug Eberhard, chief technology officer at Parsons Brinckerhoff, is the keynote presenter at the VisMasters 2007 Conference. His presentation will examine how visualization is playing traditional and transformative roles in architecture, engineering and construction projects around the world. Parsons Brinckerhoff relies on several Autodesk solutions, including 3ds Max and Revit Architecture.

Eberhard comments: "Autodesk is an important partner to Parsons Brinckerhoff. We rely on many of their tools for our project delivery. From AutoCAD Architecture and Revit Architecture, to AutoCAD Civil 3D and Autodesk 3ds Max, their tools enable us to bring it all together into one seamless visual environment. Interoperability is key to the projects that we work on. Being able to bring different information, in different formats and from different disciplines into a single model allows us to see and experience projects in a completely new way."

Other firms that rely on Autodesk's solutions for architects include Hellmuth, Obata + Kassabaum, Inc. (HOK) and Ayers/Saint/Gross, Architects + Planners.

Hellmuth, Obata + Kassabaum, Inc.

David Anderson, CAD Manager for HOK in San Francisco will also be presenting at the VisMasters 2007 conference. In his session, David will discuss trends in the use of 3D and visualization in the design pipeline.

HOK relies on Revit Architecture as its primary Building Information Modeling tool, and has standardized its 3D visualization software in North America, Latin America, Europe and Asia on 3ds Max. Consistently ranked among the world's leading design firms, HOK manages the planning, design and construction process for a variety of clients worldwide. Recent projects completed by HOK with Revit Architecture and 3ds Max include a new commercial bank in London, an International Airport in

the Middle East and a School in Kazakhstan.

"The interoperability between Autodesk Revit Architecture and 3ds Max is very important to us," explained Miles Walker, HOK's vice president and CAD manager in London. "It allows us to take our models to visualization quickly without having to re-model. The reuse of 3D data saves time and money, and improves our design process."

Ayers/Saint/Gross, Architects + Planners

U.S.-based Ayers/Saint/Gross, Architects + Planners (ASG) specializes in architectural and planning services for college and university buildings and grounds. Recently, ASG relied on Revit Architecture and 3ds Max to complete work for the Duke School of Nursing Thames Street Wharf office building in Durham, North Carolina, the Monticello Visitor's Center in Albemarle County, Virginia and the Nemours Mansion and Gardens Visitors Center in Wilmington, Delaware. These Autodesk solutions have allowed the firm to improve its workflow and efficiency.

"Instead of producing 2D drawings, our architects create 3D models in Autodesk Revit Architecture, which can later be read in 3ds Max. This eliminates the redundant task of re-creating the architects' models in 3ds Max before transforming them into 3D visualizations," explained Corey Rubadue, director of visualization at ASG. "The Revit Architecture and 3ds Max workflow enables artists to spend all their time on the visualization process. As a result, more high-quality images and animations can be produced to gain client approval."

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Dassault Systèmes to Showcase Cutting-Edge 3DVIA Interactive Technologies at SIGGRAPH 2007 Conference

7 August 2007

Dassault Systèmes (DS) announced it will showcase new technologies and strategies that further position 3D as a universal language of product development at the SIGGRAPH 2007 computer graphics conference beginning today in San Diego.

Dassault Systèmes plans a variety of live demonstrations and presentations of its 3DVIA brand strategy, various 3D technologies and partnerships, including:

- upgrades to the 3DVIA Virtools 3D Platform, enhancing the development of interactive real-time 3D applications
 - Virtools 4.1;
 - VR Library;
 - Wii and PSP solutions;
- Virtools' next generation technologies;
- SCP.Camera, a project powered by 3DVIA Virtools technology, also displayed at SIGGRAPH's Emerging Technologies exhibition.; and
- "Mystery of Khufu Pyramid," an interactive 3D walk-through explaining a theory of how the pyramid was constructed, as seen in USA Today and Smithsonian;
- presentations by 3DVIA partners REALVIZ and Allegorithmic;

- sophisticated new 3D rendering capabilities in the industry-leading CATIA design/authoring software, including shader technology developed in conjunction with [NVIDIA](#) and [mental images](#);

"The innovations we will demonstrate at SIGGRAPH are part of our efforts to enhance our 3D simulation capabilities for designers, artists and engineers of all technical abilities, and to extend beyond the design process and into the consumer realm," said Lynne Wilson, CEO, 3DVIA, Dassault Systèmes. "Part of that strategy includes our 3DVIA Virtools entertainment solutions for game developers. This is an important technology leading segment for us and we are committed to its future. We believe that 3D visual and experiential technologies will play an increasingly important role for consumers in the future."

[Dassault Systèmes](#) recently launched both 3DVIA, its brand to enable online communities and individual users to create lifelike 3D objects, as well as 3dswym, a joint venture with Publicis Groupe that will offer a collaborative web-based platform allowing marketers to connect directly to consumers in order to co-create and adapt new consumer goods and new retail environments using advanced Web and 3D tools.

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Engineering Change Management Webcast

August 2007

When: August 15, 2007 11am EST

In this webcast we will

Understand the full impact of engineering changes

Understand how to plan for downstream effects .

Learn how to streamline processing .

If you are unable to attend this webcast but are interested in receiving a copy of the presentation email [Becca Cachat](#)

[Register for this webcast NOW!](#)

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Mastercam Delivers Power, Speed, and New Opportunities; CNC Software's new capabilities demonstrated at SOUTH-TEC 2007

August 2007

The SOUTH-TEC show ushers in the latest CAD/CAM software from Mastercam. The latest software enhancements will be showcased in booth 2205 at the Charlotte Convention Center in Charlotte, NC on October 1-4. The latest Milling software introduces significant new capabilities including many 3D toolpath additions and enhancements, added support for SolidWorks® assembly files, Z-oscillation, and much more.

High Speed Toolpaths

Mastercam X2 introduces a variety of powerful new high speed techniques, including:

- Rest Material functionality has been added to most high speed finishing toolpaths. Remaining stock can be calculated from a roughing tool, another operation, all operations, or from an STL file. This allows the Rest Material to be calculated using a variety of toolpath strategies, for maximum usefulness.
- “Peel Milling” delivers powerful high speed cutting to 2D projects, moving the tool in and “peeling” away material, layer by layer.
- Rib Cuts have been added to the Surface Finish Flowline, Surface Rough Flowline, and 5-Axis Flowline toolpaths. The rib cuts are determined by a number of slice cuts perpendicular to the flowline curves of the surface. When you choose the cut direction, the software will slice the flowline curves and create a toolpath at the midpoints of each slice. This is very useful when a single pass is desired along multiple surfaces.
- Mastercam X2 includes Radial and Spiral finishing toolpath styles rounding out the high speed suite.

Trochoidal Motion

Trochoidal motion in high speed toolpaths assists with the machining of harder materials. Trochoidal motion maintains an acceptable tool load by allowing predictable tool contact with the material. This optimizes tool wear and reliability. Mastercam gives you the ability to control when and how the trochoidal motion occurs in a toolpath.

SolidWorks Assembly Files

[Mastercam](#) now has the capability to bring in whole SolidWorks assembly files into Mastercam. Prior to this, Mastercam could only import individual part files. Now, Mastercam can import SolidWorks .DLTASM files, which are files that reference other part files in the overall assembly.

Additional Milling Enhancements

- Z-Oscillation contouring has been added to minimize tool wear. Z Oscillation is especially useful when cutting thinner materials or laminated materials.
- A scallop height calculator has been added as an additional method for automatically entering stepover values.
- Support for SolidEdge® V19, AutoCAD® 2007, and SolidWorks 2007.
- Mastercam will now check an operation’s tool holder for interference with the part. It calculates areas where there is interference between the holder and part, and tells you the minimum tool length required to avoid it.

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Mastercam X2 Mill Delivers Power, Speed, and New Opportunities; CNC Software’s new capabilities demonstrated at EMO 2007

August 2007

The EMO show ushers in the latest CAD/CAM software from [Mastercam](#). The latest software enhancements will be showcased in Hall 6, Stand K02 at the Hannover Messe in Hannover, Germany on September 17-22. The latest Milling software introduces significant new capabilities including many 3D

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- Rest Material functionality has been added to most high speed finishing toolpaths. Remaining stock can be calculated from a roughing tool, another operation, all operations, or from an STL file. This allows the Rest Material to be calculated using a variety of toolpath strategies, for maximum usefulness.
- “Peel Milling” delivers powerful high speed cutting to 2D projects, moving the tool in and “peeling” away material, layer by layer.
- Rib Cuts have been added to the Surface Finish Flowline, Surface Rough Flowline, and 5-Axis Flowline toolpaths. The rib cuts are determined by a number of slice cuts perpendicular to the flowline curves of the surface. When you choose the cut direction, the software will slice the flowline curves and create a toolpath at the midpoints of each slice. This is very useful when a single pass is desired along multiple surfaces.
- Mastercam X2 includes Radial and Spiral finishing toolpath styles rounding out the high speed suite.

Trochoidal Motion

Trochoidal motion in high speed toolpaths assists with the machining of harder materials. Trochoidal motion maintains an acceptable tool load by allowing predictable tool contact with the material. This optimizes tool wear and reliability. Mastercam gives you the ability to control when and how the trochoidal motion occurs in a toolpath.

SolidWorks Assembly Files

Mastercam now has the capability to bring in whole SolidWorks assembly files into Mastercam. Prior to this, Mastercam could only import individual part files. Now, Mastercam can import SolidWorks .DLTASM files, which are files that reference other part files in the overall assembly.

Additional Milling Enhancements

- Z-Oscillation contouring has been added to minimize tool wear. Z Oscillation is especially useful when cutting thinner materials or laminated materials.
- A scallop height calculator has been added as an additional method for automatically entering stepover values.
- Support for SolidEdge® V19, AutoCAD® 2007, and SolidWorks 2007.
- Mastercam will now check an operation’s tool holder for interference with the part. It calculates areas where there is interference between the holder and part, and tells you the minimum tool length required to avoid it.

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CIMdata PLM Late-Breaking News

Webinar: Improve Design & Analysis Workflows with Abaqus for CATIA V5 Version 2.5

August 2007

Dates Offered:

Tuesday, August 28, 2007 -

4:00 PM, Eastern Daylight Time (GMT -04:00, New York)

[Register Now](#)

Thursday, August 30, 2007 -

9:00 AM, Eastern Daylight Time (GMT -04:00, New York)

[Register Now](#)

This latest version of Abaqus for CATIA makes advanced simulation more accessible than ever before. Abaqus for CATIA V5 Version 2.5 offers a new level of ease-of-use and integration with CATIA capabilities. These new features further encourage design engineers and expert analysts to collaborate by using the same models and FEA methods.

In one-hour learn about the latest simulation advancements:

- Automatic contact detection to greatly simplify the way that users define and manage interactions.
- Multiple job submission with a single click
- Extended CATIA integration with enhanced support for CATIA Knowledgeware, publications, and sensors

Who Should Attend:

This web seminar should be attended by current and prospective Abaqus for CATIA V5 users seeking an in-depth overview of the current capabilities.

More Information:

For more information, please email webinars@simulia.com.

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Financial News

Ansoft Announces First Quarter Financial Results Conference Call and Webcast

7 August 2007

Ansoft Corporation will release financial results for the first quarter ended July 31, 2007, after the market close on Tuesday, August 14.

The earnings announcement will be followed by a conference call at 5:00 p.m. EDT. A webcast of the earnings conference can be accessed on Ansoft's Web site at <http://www.ansoft.com/> or through V-call at <http://www.vcall.com/>. A replay of the call also will be available on the corporate Web site.

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CENIT Earnings Before Tax Grow by 10% to 4.95 m €

8 August 2007

Traditionally, the demand for consultancy and services has a strong impact on CENIT AG's 2nd Quarter, just as expenditures for hiring and attracting new employees, whose number is set to grow by more than 10% over the current business year. On the balance-sheet date, CENIT employed 578 staff members world-wide (2006: 544). Currently, a total of 100 vacant positions are waiting to be filled. The expansion of our software product portfolio and the necessary internationalization of our business require additional strategic investments; these have been initiated over the past months. Among them is the establishment of a company in Toulouse, France, in close proximity to EADS Airbus, as well as the faster-than-expected expansion of staff numbers in Romania, where a total of 14 staff members are now employed. In addition to a very strong 1st Quarter, sales and earnings by CENIT's product business should be expected during the 4th Quarter, particularly with regard to the sales cooperation with IBM/FileNet. For its part, IBM now projects software sales for the second half of the year, due to the integration of FileNet.

Overview of Semi-annual Figures for 2007:

After 6 months, consolidated sales have increased slightly to a current 38.05 m € (06/2006: 37.41 m € / 2%). The gross surplus is 29.49 m € (06/2006: 28.99 m € / 1,7%). During the reporting period, EBITDA attained 5.21 m € (06/2006: 5.26 m € / -1.6%), EBIT attained 4.68 m € (06/2006: 4.75 m € / -1.5%). Pre-tax EBT grew by 10% to 4.95 m € (06/2006: 4.52 m €). A significantly higher tax ratio of 37% during the 2nd Quarter (2006: 23%) led to a consolidated result of 3.11 m € (06/2006: 3.50 m €). The Group's EPS thus reached 0.36 € per share (06/2006 adjusted: 0.42 €). On June 30, 2007, shareholder equity amounted to approx. 23.41 m € (12/2006: 24.3 m €), accounting for an equity ratio of 66% (12/2006: 62%). On balance-sheet date, the total of bank deposits and securities incl. current assets amounted to 14.9 m € (12/2006: 18.7 m €). June 21, total dividends of 4.2 m. € were paid out to shareholders. Operative cash flow amounts to 6.26 m € (06/2006: 5.12 m €).

Results for 2nd Quarter 2007

During the 2nd Quarter of 2007, CENIT Group achieved sales of 20.4 m € (06/2006: 18.2 m € / 12%). Gross profits amounted to 13.85 m € (06/2006: 14.19 m € / -2.5%). EBITDA attained 1.93 m € (06/2006: 2.38 m € / -19%). 2nd Quarter earnings before interest and taxes amounted to 1.66 m € (06/2006: 2.15 m € / -22.8%). EBT amounted to 1.80 m € (06/2006: 2.08 m € / -13.5%), and the Group result for the 2nd Quarter is 1.11 m € (06/2006: 1.53 m €). The Group EPS reached 0.13 € per share (06/2006 adjusted: 0.18 €).

Breakdown of Sales

The sales volume of the service sector increased by 4% to currently 22.16 m € (06/2006: 21.32 m €), making it the strongest contributor to sales (58%). During the first 6 months of the current business year, [CENIT](#) software turnover amounted to 5.96 m € (06/2006: 6.20 m € / -4%). Thus, approx. 16% of total sales can be attributed to CENIT's proprietary software. Sales of non-CENIT software increased by 14% to 4.03 m € (06/2006: 3.54 m €), thus accounting for 11% of total turnover. The hardware business contracted by 7% to 5.90 m € (06/2006: 6.34 m €). As at balance-sheet date, this equalled approx. 15% of total CENIT turnover.

Orders

As at 30 June 2007, Group-wide orders on hand have increased by 21% to currently 22 m € (12/2006:

CIMdata PLM Late-Breaking News

18.2 m €). Incoming orders amounted to approx. 46 m €(6/2006: 46 m €). During the 2nd Quarter, the total share of new customers was 5%.

Outlook

CENIT's Executive Board expects that CENIT and its partners IBM/FileNet, SAP and Dassault will be able to increase earnings in the software sector as projected, particularly during the second half of the year. The process of internationalization and the consistent increase in staff will continue in the future. The assessment of business opportunities remains positive, and all efforts will be undertaken to fill the currently vacant, approx. 100 positions worldwide for software specialists, engineers and consultants within the current year.

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Cimatron Reports 9% Revenue Growth over Q2 2006 and \$0.04 EPS in Q2 2007

7 August 2007

Cimatron Limited announced financial results for the second quarter of 2007.

Cimatron's business and financial results continue to improve compared to the first quarter of 2007, as well as compared to the second quarter of 2006. Revenue and profit growth are mostly due to positive acceptance of recently-launched products. The increase in operating profit in the second quarter of 2007 consists of more than 80% of the revenue growth in this quarter.

Financial Highlights:

Revenues for the second quarter of 2007 increased by 9.3% to \$5.51 million compared to \$5.04 million in the second quarter of 2006. Software license revenues in the second quarter of 2007 increased by 16.4% compared to the same quarter in 2006. For the first 6 months of 2007, revenue increased by 4.1% to \$10.84 million, compared to \$10.42 million in the same period of 2006. Software license revenues in the first half of 2007 increased by 8.7% compared to the same period in 2006.

Gross Profit for the second quarter of 2007 was \$4.7 million as compared to \$4.1 million in the same period in 2006, a 14.6% increase. Gross margin in the second quarter was 85% of revenues, compared to 81% of revenues in Q2 2006. In the first 6 months of 2007, gross profit increased 7.3% to \$9.2 million, compared to \$8.5 million in the first 6 months of 2006. Gross margin for the 6 months ended on June 30th, 2007 was 85% of revenues as compared to 82% of revenues in the same period of 2006.

Operating Profit in the second quarter of 2007 was \$282 thousand, compared to an operating loss of \$(145) thousand in the second quarter of 2006. In the first 6 months of 2007, Cimatron reports an operating profit increase to \$395 thousand, compared to an operating profit of \$86 thousand in the first 6 months of 2006.

Net Profit for the second quarter of 2007 was \$291 thousand, or \$0.04 per diluted share, compared to a net profit of \$18 thousand, or \$0.00 per diluted share recorded in the same quarter of 2006. In the first 6 months of 2007, net profit increased by 98.3% to \$472 thousand, or \$0.06 per diluted share, compared to a net profit of \$238 thousand, or \$0.03 per diluted share, in the first 6 months of 2006.

Commenting on the results, Danny Haran, President and Chief Executive Officer of Cimatron, said, "We are very pleased with the consecutive improvement in our financial and business results, being the result of implementation of our strategic plan. Cimatron's turnaround is based on broader product offering, geographical re-focusing and more efficient operations, all of which led to improved profitability."

Mr. Rimon Ben-Shaoul, Chairman of the Board of Directors of Cimatron said, "We believe that Cimatron is now well positioned to further increase its market share and accordingly its revenues in order to become a larger player in the industry. Following the exercise of the option to increase its holding in Microsystem to 51%, Cimatron continues to consider M&A opportunities, as part of its general growth strategy to further increase its offering and global presence."

Conference Call Information:

Cimatron's management will host a conference call with the investment community to discuss and review the results, on August 8th, 2007:

For those unable to listen to the live call, a replay of the call will be available from the day after the call under the investor relations section of Cimatron's website, at: <http://www.cimatron.com/>

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COADE Attracts \$42 Million Investment From Insight Partners to Expand Plant Design and Engineering Software Solutions

6 August 2007

COADE, Inc. announced that it has attracted a \$42 million investment from [Insight Partners](#), a New York-based investment firm. The investment, representing COADE's first round of external financing, will be used to accelerate product development and international expansion and to support strategic acquisitions. The investment follows another year of record revenues and profitability at COADE for the fiscal year ended March 31st, 2007.

[COADE](#), a privately held firm, has demonstrated 23 years of consistent growth and profitability by providing CAE and CAD applications and promoting cross-discipline interoperability between its design and engineering solutions. The company's products include CAESAR II, the industry-standard software package used for pipe stress analysis; PVElite and TANK, applications for pressure vessel and tank stress analysis; and CADWorx, an integrated suite of plant design applications. Today, the company serves over 25,000 users across 65 countries. Its customers range from small organizations to global companies, including many of the world's largest engineering, procurement, and construction firms; plants owners and operators and equipment fabricators. These include such names as Bechtel, Halliburton, Technip, Toyo, AMEC, ExxonMobil, Shell, Aramco, Chevron, DuPont, and Dow Chemical.

"Insight Partners has a proven track record of helping grow enterprise software companies," said Thomas J. Van Laan, PE, CEO of COADE. "We selected Insight as a partner because of their strong software expertise, their value-added resources, and their vision of building COADE through continued organic growth and strategic acquisitions."

George McCulloch, Managing Director of Insight Venture Partners, said "COADE is an ideal Insight investment. The company has a broad base of loyal users, an outstanding management team that is developing market-leading products, an excellent network of global resellers, and a strong track record of growth and profitability. We look forward to being part of COADE's growth strategy and continued success."

In conjunction with the financing, Peter Sobiloff, George McCulloch and Sarah Haas of Insight Partners will join the Board of Directors. Churchill Financial provided financing for the transaction. Paul Cook, VP Corporate Development of COADE, acted as advisor to COADE management in the transaction.

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HitachiSoft Invests in Lattice Technology

7 August 2007

Lattice Technology, Inc., developers of the XVL ultra-compressed 3D data format, announced a significant investment from Hitachi Software Engineering Co.Ltd., HitachiSoft has acquired 800 shares (9.85%) of Lattice Technology. The company becomes the 2nd largest stockholder next to Toyota Motor Corporation.

Lattice's lightweight 3D data, XVL has spread throughout the global automobile, aerospace, electrical machinery and defense manufacturing industries with customers like Toyota Motor Corporation, Boeing, MAN, Phillips and Nikon Corporation. Lattice Technology's ultra compressed XVL format provides memory efficiency and display speed. The spread of highly accurate 3D data with XVL has led to an increasing demand for data security, which led to Lattice and HitachiSoft cooperating to develop solutions for 3D data security.

This cooperation will be further strengthened by the investment. HitachiSoft recently released XVLstaff and Lattice Technology will add improved security features to XVL Studio Version 7.0 to be released this summer. These tools developed using the rich rights management environment of Adobe LiveCycle Rights Management, allow granular control of access rights to 3D data for internal and external data sharing, including the revision control and expiration of distributed data, as well as logging of unauthorized access attempts.

"This investment further strengthens [Lattice Technology](#) and ensures that we can continue to develop industry leading software to meet the evolving 3D data needs of our customers," said Bill Barnes, General Manager, Lattice Technology, Inc. "This is an exciting time to be in this market and having partners like [HitachiSoft](#) will mean that we can continue to grow both our products and our company."

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Mentor Graphics to Release Q2 Financial Results on August 23, 2007

7 August 2007

Mentor Graphics Corporation announced that it will release financial results for its second fiscal quarter, which ended July 31, 2007, on Thursday, August 23, 2007 at 1:15 p.m. Pacific Time. Following the release, Mentor will host a live webcast to discuss the outcome of Q2, beginning at 2:00 p.m. Pacific Time.

What: Mentor Graphics live webcast of Q2 financial results

When: Thursday, August 23, 2007 at 1:15 p.m. Pacific Time

Webcast: http://www.mentor.com/company/investor_relations

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Moldflow Moves Date of Release of Fourth Fiscal Quarter and Full Fiscal 2007 Year Financial Results to August 23, 2007

3 August 2007

CIMdata PLM Late-Breaking News

Moldflow announced that it has moved the date of the release of its fourth fiscal quarter and full fiscal 2007 year financial results to August 23, 2007. On that date, the Company will hold a conference call conducted by Roland Thomas, president and CEO, and Gregory Magoon, executive vice president of finance and CFO at 11:00 a.m. Eastern time to discuss the fourth quarter and full fiscal 2007 year results.

What: Moldflow Fourth Quarter and Full Fiscal 2007 Earnings Conference Call

When: 8/23/07 at 11:00 a.m. Eastern time

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

Click on Investors, then Audio Presentations

The conference call dial-in number is 877-314-4022, Conference ID #10140446. The call will be recorded with replay (dial-in # 800-642-1687, PIN# 10140446) which will be available until August 30, 2007.

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MSC.Software Reports Financial Results for the Second Quarter Ended June 30, 2007

7 August 2007

MSC.Software Corporation reported results for the second quarter ended June 30, 2007.

REVENUE

Total revenue for the second quarter ended June 30, 2007 was \$60.7 million compared to \$67.9 million for the second quarter last year. This represents sequential growth of 5% over total revenue in the first quarter of 2007. Software revenue for the second quarter totaled \$23.0 million compared to \$31.4 million for the second quarter last year. For the second quarter ended June 30, 2007, maintenance revenue totaled \$31.9 million and services revenue totaled \$5.9 million, compared to \$29.2 million of maintenance revenue and \$7.3 million of services revenue for the second quarter last year.

Total revenue for the six months ended June 30, 2007 was \$118.4 million compared to \$135.3 million for the six month period last year. Software revenue for the six months totaled \$46.0 million compared to \$60.7 million for the six month period last year. For the six months ended June 30, 2007 maintenance revenue totaled \$60.6 million and services revenue totaled \$11.8 million, compared to \$56.8 million of maintenance revenue and \$17.9 million of services revenue for the six month period last year.

"We are pleased that the cost reduction program and operational improvement initiatives we implemented over the past several quarters have resulted in a decrease in our operating expenses in the second quarter," said Bill Weyand, CEO and Chairman of MSC.Software. "These improvements and efficiencies in infrastructure have resulted in SG&A decreasing by about \$6 million sequentially from the first quarter."

"However, our revenue results continue to be impacted by our product evolution from engineering tools to enterprise solution. Our experience to date shows that selling enterprise solutions results in lengthening our sales cycle and leads to delays in the licensing of our products," continued Mr. Weyand.

"We are seeing positive signs with our new Enterprise Simulation products and had a number of key wins in the quarter with customers including Northrop Grumman and TRW in the US, Mitsubishi Motors and Denso in Asia Pacific, and Alenia, Audi and Fincantieri in Europe. With the major wins at

CIMdata PLM Late-Breaking News

Mitsubishi Motors and Audi we now have six of the top automotive OEM's implementing our MD solutions."

REVENUE BY GEOGRAPHY

Total revenue in the Americas for the three and six months ended June 30, 2007 was \$17.2 million and \$35.7 million respectively, compared to \$18.4 million and \$41.0 million for the same periods last year. Total revenue in EMEA for the three and six months ended June 30, 2007 was \$24.8 million and \$44.4 million, respectively, compared to \$28.5 million and \$51.7 million for the same periods last year. Changes in the Euro dollar increased EMEA revenue during the three and six months of 2007 by \$1.7 million and \$3.3 million, respectively. In the Asia Pacific region, revenue for the three and six months of 2007 totaled \$18.8 million and \$38.3 million respectively, compared to \$21.0 million and \$42.6 million for the same periods in 2006. Changes in the Japanese Yen decreased Asia Pacific revenue during the three and six months of 2007 by \$1.0 million and \$1.5 million, respectively. The decreases in total revenue in all world geographies generally reflect decreases in software revenue from the impacts of the transition to selling enterprise solutions to our major customers in certain key industries including automotive, aerospace and manufacturing industries, partially offset by growth in maintenance revenue.

RESULTS OF OPERATIONS AND EPS

Total operating expenses for the three and six months ended June 30, 2007 were \$45.9 million and \$105.3 million, respectively, compared to \$50.4 million and \$93.6 million for the same periods last year. Operating income for the three months ended June 30, 2007 was \$3.8 million and for the six month period was a loss of \$9.6 million, compared to operating income of \$2.3 million and \$7.9 million for the same periods in 2006. The operating loss for the six months ended June 30, 2007 included restructuring and impairment charges totaling \$7.8 million.

For the three months ended June 30, 2007, income from continuing operations totaled \$1.5 million or \$0.03 per diluted share, compared to income from continuing operations of \$0.8 million or \$0.02 per diluted share for the second quarter last year. For the six months ended June 30, 2007, loss from continuing operations totaled \$4.9 million or (\$0.11) per diluted share, compared to income from continuing operations of \$3.9 million or \$0.10 per diluted share for the six month period last year.

GUIDANCE

At this time the Company will not issue guidance. The Company will evaluate its decision to provide guidance in the future, as it continues to move through this transition period and visibility improves.

CONFERENCE CALL

The Company will host a conference call to discuss the second quarter financial results today at 1:30 pm pacific (4:30 pm eastern). An archived version of the audio conference call will be available until August 9, 2007 and can be accessed at: (800) 642-1687 using the conference ID code: 6859967. An archive of the conference call and slide presentation will also be available at <http://www.mscsoftware.com/ir/>.

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Synopsys Announces Earnings Release Date and Conference Call For Third Quarter Fiscal Year 2007

8 August 2007

CIMdata PLM Late-Breaking News

Synopsys, Inc. announced it will report results for the third quarter fiscal year 2007 on Wednesday, Aug. 22, 2007, after the market closes.

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

Financial and other statistical information to be discussed on this conference call will be available on the corporate website at <http://www.synopsys.com/corporate/invest/invest.html> immediately before the call. A live webcast will also be available on this site. Participants should access the live webcast at least 10 minutes prior to the start time. A webcast replay can be accessed on the corporate web site beginning Wednesday, August 22, 2007, at approximately 5:30 p.m. PDT. The replay will remain available until Synopsys announces its fourth quarter and fiscal 2007 earnings results in October, 2007. In addition, a dial-up replay of the conference call will be available beginning August 22, 2007 at 5:30 p.m. PDT, ending on September 5, 2007. The replay telephone number is USA (800) 475-6701, and International (320) 365-3844, Access Code: 883145.

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Tricorn Grows by 53% in 2006

9 August 2007

Tricorn has experienced a staggering 53% growth resulting from the success of its Job Processing Software, ISO Quality Management Software and Tricorn RTS, its Real Time Scheduler.

Developed at Tricorn's Farnham headquarters, the suite of software has proved to be very popular in the UK and Ireland, helping companies to manage their businesses more effectively by monitoring costs, quality and delivery targets. Bill Cooper, founder of Tricorn said, "Our products have reached a new level of maturity, reliability and sophistication which has enabled us to fully satisfy the requirements of potential clients and win a high proportion of them as new customers."

The company is soon to release version 6.3 of its Job Processing Software, which now integrates with Tricorn RTS by using the same database. The advantage for users is the automatic bi-directional updating. A change in a job, or a new job, is automatically reflected in RTS, while events on the shop floor are instantly fed back to the Job Processing Software, providing reliable live information. Managers can use this information to build up a true representation of what is happening in the factory, and at the same time monitor costs to ensure that budgets and delivery schedules are on track.

Providing a cost effective solution for all sizes of engineering businesses has further contributed to success at Tricorn, which has designed its systems to be easy to use and quick to implement. Some users have reported wide ranging benefits, including 50% less work in progress, and a 20% growth in business directly attributable to the software. Other customers have achieved significant reductions in material usage, and 80% improvements in on time delivery, enhancements which all have a direct impact on profitability.

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Implementation Investments

Autodesk Announces Magic Wheels as Inventor of the Month for August 2007

9 August 2007

Autodesk, Inc. announced that Magic Wheels, Inc., a developer of multigear wheel systems for manual wheelchairs, has been named the Autodesk Inventor of the Month for August 2007. The Inventor of the Month program (<http://www.autodesk.com/inventorofthemonth>) recognizes the most innovative design and engineering advancements made by the extensive community using Autodesk Inventor software. Magic Wheels' selection as Inventor of the Month for August bears particular significance, as August is National Inventors' Month in the United States to recognize invention and creativity.

Magic Wheels was co-founded in 1996 by Steve Meginniss, the successful inventor and product developer of the Sonicare toothbrush, the Clarisonic skin care system and the Quinton Quik-Prep electrodes used in stress testing. The company sought to improve the wheel systems for rear-push manual wheelchairs, which had essentially remained unchanged for 150 years. Traditionally these wheels provided only one gear, which made it difficult for wheelchair users to ascend and descend hills, or navigate rough and uneven surfaces.

To address these challenges, Magic Wheels developed the MAGICWHEELS two-gear wheelchair drive. This mechanical wheel system works much like a two-speed bicycle, providing the user with two easily shifted gears for mobility enhancement to navigate ramps, hills and all types of varying terrain. Additionally, the availability of different gears lessens the incidence of repetitive stress injuries to the shoulders, arms and hands due to high driving loads.

Autodesk Inventor software was integral to the development of the MAGICWHEELS product, which evolved over a nine-year period. As the foundation for Digital Prototyping, Inventor allows manufacturers to simulate the real-world performance of a design before it is built.

"In the process of literally 'reinventing the wheel,' we had to explore a lot of different design ideas," said Cisco Sabin, mechanical design engineer at Magic Wheels. "By creating digital prototypes in Inventor, we were able to fully explore and optimize our designs before producing expensive physical prototypes."

"There has never been a more exciting time to be an inventor than now," said Robert "Buzz" Kross, senior vice president of Autodesk Manufacturing Solutions. "Companies like Magic Wheels are using Digital Prototyping to refine the invention process, leveraging software that is as groundbreaking as their ideas. We are thrilled to name Magic Wheels as our Inventor of the Month for August. They are a true embodiment of the creativity and innovation that National Inventors Month represents."

About the Autodesk Inventor of the Month Program

Each month, Autodesk selects an Inventor of the Month from the more than 600,000 users of Autodesk Inventor software, the foundation for Digital Prototyping. Winners are chosen for engineering excellence and groundbreaking innovation. For more information on Autodesk Inventor of the Month, contact us at IOM@autodesk.com.

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Delcam's PartMaker Gives High Precision at High Speed

7 August 2007

Changing to Delcam's PartMaker CAM system in 2006 has enabled HMP Industries, a generations-old machine shop in Ansonia, in Southern Connecticut, to be able to quote, program and set up parts much faster. HMP is upgrading its massive bank of more than 100 conventional machines to state-of-the-art CNC equipment, including a variety of multi-axis Swiss-type lathes, to focus on high-precision manufacturing of medical devices.

"Using PartMaker has definitely opened opportunities to us in our medical device business because the software allows us to quote and program faster," commented HMP President Steve Whitman. "This means we can deliver faster and meet the short lead times dictated by our medical customers."

Prior to implementing PartMaker, HMP's technical staff had been programming the CNC machines through a combination of manual programming techniques and other, less-sophisticated CAM systems. PartMaker has improved productivity by speeding programming times, reducing machine set-up times and reducing scrap.

Gary Svenson, the chief CNC programmer at HMP, estimates that using PartMaker has reduced the amount of time it takes him to program a part by about 70%. Additionally, because PartMaker allows him to visually prove out a part on screen with its array of process verification tools, he has also been able to reduce the amount of time it takes to set up new jobs by about one third.

"When you are programming by hand, you have to spend a lot of time dry-running a part on the machine during set-up. With PartMaker, this time is greatly reduced. You know what to expect because you see the part being simulated on screen," said Mr. Svenson. Additionally, HMP is now producing much less scrap because they need to cut fewer parts before going into final production. Scrap is no small issue when making medical parts due to the high cost of the materials used.

PartMaker has also allowed HMP to better utilise both the advanced capabilities of their CNC Swiss machines and make better use of their Swiss capacity. "PartMaker helps use all the features of the machine, which is especially important on our higher-end Swiss machines. When you are programming manually, you don't always use the machine optimally," according to Damian Zyjeski, Engineering Manager at HMP.

Additionally, the accuracy of PartMaker's post-processors gives HMP the flexibility to quickly swap a part from one machine tool to another by just post-processing the program for the other machine. Having the flexibility to quickly swap parts from one machine tool to another allows HMP to make better use of its machine capacity and so meet the short lead times demanded by its medical business.

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ENGECROL Selects SoftinWay's AxSTREAM™ Software for Steam Turbine Flow Path Design, Analysis and Optimization

7 August 2007

[SoftinWay, Inc.](#) announced that [ENGECROL Ltd.](#) of Campinas, Brazil, has adopted the company's AxSTREAM™ flow path design, analysis and optimization software suite to improve the performance and efficiency of steam turbines. This order represents a significant step forward in SoftinWay's global expansion and endorsement of AxSTREAM™ as it marks the first order with a company in Brazil,

home of many turbo-machinery users.

ENGECROL is a manufacturer of medium size steam turbines, and servicer/refurbisher of any size steam turbine, and has performed overhaul work on every major brand of steam turbine in virtually every corner of the world.

AxSTREAM™ will be utilized to develop new steam turbines for specific industrial and power generation applications, and also to analyze and improve the flow path characteristics of steam turbines undergoing overhaul and retrofit.

“With the expansion of sugar mills, steel mills, petrochemical plants and other industrial facilities in Brazil that have high electricity and process steam demands, we feel a strong requirement from the market to provide more efficient and powerful steam turbines” stated Mr. Renato Tiengo, Engineering Manager for ENGECROL. “In adding AxSTREAM™ to our design tools, we will be able to achieve these goals better and faster than ever before.”

“ENGECROL has a strong reputation for designing steam turbines for complex industrial energy requirements,” said Dr. Leonid Moroz, President of SoftInWay. “We are very impressed with ENGECROL’s modular design concept to match turbine capabilities to plant electricity and steam needs and then to optimize overall performance and capabilities. We look forward to working with them on both new designs and retrofit steam paths.”

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Galileo Avionica Italia Selected Valor’s DFM Software with VPL for Zero-Defect Manufacturing

7 August 2007

Galileo Avionica has selected Valor Computerized Systems Ltd, to provide its DFM (Design for Manufacturability) software for design verification.

Valor’s DFM software will help Galileo Avionica, the Italian branch of SELEX Sensors and Airborne Systems, a Finmeccanica Company that provides integrated sensors solutions and systems for defense and homeland security applications, to analyze and optimize designs for zero-defect, high-quality manufacturing. The accuracy of Valor’s DFM analysis will be further enhanced through the use of Valor’s Part Library (VPL) service – a massive repository containing accurate geometric data of more than 35 Million components.

Valor’s DFM software is a unique, virtual manufacturing system, which enables to simulate the entire production process of a chosen PCB, from design to manufacture to assembly, concurrently with the design process. It helps to optimize designs for excellence using a physical model of the PCB assembly, resulting in improved product quality, and revision spins being practically eliminated.

More information about Valor can be found on <http://www.valor.com/>.

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GUC Adds Apache’s RedHawk to their 65nm Signoff Flow

7 August 2007

[Apache Design Solutions](#) announced that [Global Unichip Corp.](#) (GUC; TW:3443), a leading SoC design foundry, has added RedHawk power integrity solution as part of their signoff requirements for all

designs at 65nm and below. Over the past two years, RedHawk helped GUC perform dynamic IR prevention prior to tape-out, which resulted in very few yield losses due to IR drop.

“Meeting customers’ needs in deep-submicron technology has been our main focus. Apache’s power integrity solutions deliver accuracy, performance, and ease-of-use required for identifying and correcting difficult design challenges prior to tape-out,” said Jim Lai, president and COO of GUC. “By adding Apache’s RedHawk into the signoff flow, we will provide an even better quality and robust flow than ever, and will have a higher degree of confidence in achieving silicon success.”

“Power signoff has become a must have requirement as designs move towards 65nm and below,” said Dian Yang, vice president of product management at Apache. “RedHawk has been adopted by 80% of the top IDM and fabless semiconductor companies as their power signoff solution. We are pleased to be a part of GUC’s signoff flow and to continue our collaboration in meeting upcoming challenges in low power design analysis and optimization.”

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Intel Selects Synopsys As Its Primary EDA Supplier

6 August 2007

Synopsys, Inc. announced that it was selected as Intel Corporation's primary EDA supplier. The two companies signed a multi-year, expanded commercial and technology agreement under which they will closely collaborate on advanced design flows that combine Synopsys' breadth of EDA solutions with Intel's technology strengths and design expertise. The agreement expands a long-term relationship between the two companies.

"Taking our long-term relationship with Intel to the next level is a milestone strategic move for both companies," said Aart de Geus, Chairman and CEO of Synopsys, Inc. "It has always been Synopsys' strategy to work closely with other technology leaders with one clear objective: lead in the state-of-the-art of modern design. By teaming up with Intel, we will jointly drive forward a whole new phase of Moore's law's evolution."

"The strategic relationship with [Synopsys](#) heralds a new era of close collaboration which will enable us to realize increased efficiencies in our design process," said Siva Yerramilli, vice president, design and technology solutions, Intel.

Additional terms of the agreement are not being disclosed.

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ITER Selects ANSYS Solutions for Design of Experimental Nuclear Fusion Facility

6 August 2007

ANSYS, Inc. announced that the multinational organization ITER has adopted software from ANSYS to validate the design of its international fusion power plant development project. ITER aims to demonstrate the scientific and technical feasibility of fusion power. The partners in the project -- called the ITER Parties -- are the European Union, Japan, the People's Republic of China, the Republic of India, the Republic of Korea, the Russian Federation and the U.S.A. ITER will be constructed in Europe at Cadarache in the south of France.

Engineering simulation solutions from ANSYS will be used to accelerate research and development by optimizing key components of the experimental fusion reactor. Researchers will use the broad and linked simulation capabilities within the ANSYS Workbench platform to conduct dynamic analyses, nonlinear thermal analysis, electro-magnetic analyses, coupled field analyses and nonlinear structural analyses of the facility. Construction and commissioning of the project is expected to take about eight years, once a construction license is granted in early 2009.

"Our experience has shown that ANSYS software gives engineers the opportunity to analyze all kinds of engineering problems in an efficient and flexible manner. The analyses performed to date have provided invaluable information about the mechanical behavior of the ITER components, such as the magnet system, vacuum vessel, divertor and other components," said Cornelis Jong, mechanical engineer in the magnet division at ITER. "These tools will contribute to ITER's success, leading to large-scale nuclear power without a long-term nuclear waste stream -- which would be a monumental environmental and economic achievement in the 21st century."

The [ITER](#) fusion reactor is based on the tokamak concept, in which low-temperature superconducting coils are positioned around a toroidal vessel. These coils produce magnetic forces that confine hot plasma long enough to generate 10 times more power through fusion than required to keep it hot.

ITER intends to demonstrate that fusion could be used to generate electrical power; the aim of the project is to gain the necessary data to design and operate the first electricity-producing fusion plant.

"We at ANSYS are excited to be providing single-platform multiphysics CAE solutions to the ITER organization, and to be taking part in the quest for a clean and abundant energy source for the future," said Chris Reid, vice president, marketing at ANSYS, Inc.

For downloadable, high resolution images, visit <http://www.ansys.com/newsimages>

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Leading Australian Defense Company, Tenix, Selects ANSYS as its Enterprise-Wide CAE Software Supplier

7 August 2007

[ANSYS, Inc.](#) announced that Tenix Pty Limited has selected a comprehensive computer-aided engineering (CAE) software suite from ANSYS, Inc. to meet the needs of its aerospace, land, marine and electronics systems divisions. Tenix, one of southeast Asia's largest independent defense and technology contractors with operations spread throughout Australia and New Zealand, will use the full suite of simulation capabilities from ANSYS for enterprise-wide engineering simulation and analysis.

"We standardized on software from ANSYS as our solution toolset because it uniquely provides us with a strong set of structural analysis tools as well as an impressive set of computational fluid dynamics capabilities," said Pat Lockley, general engineering manager at Tenix. The company is using the software from ANSYS to provide integrated, multiphysics solutions for customized aircraft, land vehicles and ships to meet the needs of its civil and military customers. "Having CAE solutions in a single, integrated software environment means that we can deploy the best-available computer-based design tools to our separate divisions; at the same time, we have a common enterprise-wide toolset for all our defense-related engineering systems integration projects."

With ANSYS, Inc. now as its sole supplier of CAE solutions, Tenix has the additional capability of carrying out fluid dynamics and blast simulations, which will allow its geographically dispersed

divisions to collaborate closely and realize increased business synergies and efficiencies not possible before.

"The Tenix decision to go with the full product portfolio from ANSYS illustrates the benefits that can be gained by using a comprehensive integrated suite," said Jim Cashman, president and chief executive officer at ANSYS, Inc. "Only products from ANSYS can deliver the flexibility and accuracy that Tenix demands for their unique applications. In addition, the defense company now has headroom to grow their use of CAE to meet their evolving business needs. As ANSYS continues to lead the industry in developing integrated CAE solutions, Tenix will be able to take full advantage of our ongoing significant investment in research, development and innovation."

For downloadable, high-resolution images, visit <http://www.ansys.com/newsimages>.

From a naval shipbuilding business in 1997, Tenix has grown to service most areas of the defense industry, as well as establishing businesses working in aviation, parking and traffic infringement management, commercializing innovative technology and providing engineering services for utilities including water, sewerage, gas and electricity. The company is Australia's largest locally owned defense and technology contractor, employing some 4000 people and earning almost \$1 billion annually. Based in Sydney, Australia, Tenix operates in all mainland Australian states and territories, New Zealand, the South Pacific and Southeast Asia. Tenix is also an active partner in high technology ventures with U.S. and European firms.

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Leading Global Shipbuilder Fincantieri Selects MSC.Software's SimEnterprise Solutions to Achieve 50% Gain in Engineering Productivity

8 August 2007

[MSC.Software](#) announced that Fincantieri Cantieri Navali Italiani S.p.A, one of the world's largest shipbuilding groups, has adopted and will standardize on the company's new SimEnterprise technology across all company sites and their extended supply chain.

With typical development cycles not exceeding 36 months and including a 12 month design phase, Fincantieri and MSC.Software jointly undertook a detailed program of evaluation, aimed at rationalizing the simulation environment and significantly reducing the overall design-to-manufacture process. This included a full process assessment and an extended visit to MSC.Software's Solution Studio, where the optimum development processes were identified, and the delivery requirements mapped to the functionality of MSC.Software's new enterprise simulation environments. Under the new agreement, the Fincantieri group will significantly extend their existing simulation capabilities, by introducing a range of next-generation technologies from MSC.Software's SimEnterprise portfolio, most notably the multidiscipline solver, MD Nastran, the process management solution, SimManager and the simulation process automation environment, SimXpert

"The ability of Fincantieri to retain a commercial advantage in today's competitive markets is based on continually enhanced product performance and a quest for new and innovative solutions in design and construction," said Mr Giorgio Bacicchi, responsible of Ship Design Integration of Fincantieri. "In order to accomplish this, Fincantieri strongly relies on the engineering capabilities within its product design process of which MSC.Software's technology is already considered a core component. We are confident that by standardizing on the company's new SimEnterprise solutions we will be able to achieve the 50% productivity gains that we are targeting within the group."

In order to meet the high productivity goals, technological and commercial effectiveness were both key considerations for Fincantieri. Accessing the SimEnterprise technology through MSC.Software's new Enterprise Advantage licensing system will preserve Fincantieri's investment in historical MasterKey products, extending their capabilities to include access to the new multidiscipline (MD) and SimEnterprise products. The deployment of MSC.Software's simulation management solution, SimManager, also complements Fincantieri's existing data management systems, ensuring the effective mobilization of simulation process and data pedigree throughout the extended Fincantieri Group, its suppliers, and customers. The application of the template approach in SimXpert will allow Fincantieri to leverage on their experts knowledge, reducing the time needed for repetitive activities and increasing the usage of simulation in more departments. Additional service deliverables will ensure that the new simulation environment is tailored to Fincantieri's specific requirements, and rapidly operational to its maximum potential. It is anticipated that the new MSC.Software technologies will be implemented within the next 3-6 months.

"The SimEnterprise environment makes simulation an integral part of the engineering business, empowering all stakeholders with the ability to create and share best-practice methods, models, and data to maximum effect throughout the enterprise," said Amir Mobayen, Senior Vice President, MSC Software EMEA Operations. "Creating integrated and harmonious simulation environments is the new catalyst in creating competitive advantage. The adoption of enterprise simulation by one of the world's largest shipbuilding organizations is further evidence that the standard use of simulation has now progressed far beyond the traditional Aerospace and Automotive industries."

About Fincantieri

Fincantieri is the world leader in the building of cruise ships, a reference operator for large ferries and furthermore claims a significant presence in the naval field. With over 7,000 ships built over 200 years of history, the Company is the heir of the great Italian shipbuilding tradition.

The Head office and Corporate offices are located in Trieste. Design Centres are located in Trieste and Genoa. The industrial production is carried out at nine shipyards, divided into six business areas: cruise ships, merchant ships, naval vessels, mega yachts, ship repairs and conversion, marine systems.

In Italy Fincantieri has almost 9,200 employees, plus at least as many other workers working for supplying companies. The production value is around 2,400 Million Euro (Ref. Balance Sheet 2006), over 60% in export, with a net profit amounting to 58,7 Million Euros. The order portfolio amounts to the record figure of 11 Million Euros, confirming Fincantieri's position at international level.

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Lola Group Selects Altair's HyperWorks CAE Software Suite to Streamline Its Design Process for Composite Structures

9 August 2007

[Altair Engineering, Inc.](#) announced that Lola Group -- a globally recognized supplier of specialist composite technology to the motor sport, automotive, aerospace, marine, defense, communications and medical sectors -- has chosen Altair's HyperWorks computer-aided engineering (CAE) suite of advanced software to streamline their product design process.

"Our design processes will be streamlined through the use of Altair's superior simulation and composite optimization technology," said Paul Rennie, senior composites engineer, [Lola Cars International Ltd.](#)

"Altair has proven that its composite ply optimization and analysis simulation capabilities deliver significant commercial advantages. This is a key part of our design philosophy."

HyperWorks is an enterprise simulation solution for rapid design exploration and decision-making, built upon a foundation of design optimization, performance data management and process automation. As the most comprehensive, open-architecture CAE solution in the industry, HyperWorks includes best-in-class modeling, analysis, visualization and data management solutions for linear, nonlinear, structural optimization, fluid-structure interaction, and multi-body dynamics applications.

"We are pleased to be associated with one of the respected leaders in advanced composite structures," said Dr. Royston Jones, managing director of Altair Engineering, Ltd. "HyperWorks advanced toolset, which includes composite optimization and time-reduction technology, will streamline Lola Cars International Ltd.'s design process and help them bring innovative designs to market faster."

Lola Group consists of Lola Cars International Ltd., Lola Composites, Lola Composites Special Projects and Altanet Technologies. The company has more than four decades of experience delivering logistical and technical support to specialist projects and racers around the world. To ensure their products are of superior technical quality, Lola Group implements a virtual development process from the first stage of a design concept through to a finalized physical product.

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MEKRA Lang, Leading Supplier of Vision Systems for Commercial Vehicles, Selects IFS Applications

6 August 2007

After an extensive evaluation process the German company [MEKRA Lang](#), a leading manufacturer of mirrors and camera systems for commercial vehicles, selected IFS Applications to support their goal of becoming a more agile company. The value of the contract amounts to several million US dollars in software licenses and implementation services.

"With IFS we found an ERP partner who is, like MEKRA Lang, a middle-sized company with international coverage. MEKRA Lang is privately owned and characterized by high reliability and customer orientation. For us it is important to establish a completely customer-centric ERP system which reflects this focus. As global market leader in surround vision systems for commercial vehicles we need an ERP solution with proven capability, efficiency and the flexibility to support our business and products which have a high potential for innovation. We are convinced that we have found the right partner with IFS for the realization of our sophisticated goals," stated Susanne Lang, General Manager at MEKRA Lang, concerning the strategic selection of IFS.

The ability of [IFS](#) Applications to help MEKRA Lang realize lean and efficient processes was crucial in the decision of the Lang Group. Their legacy system was not able to match the increasing requirements of a fast growing company with the high international demands.

Wilfried Gschneidinger, General Manager IFS Central Europe, added, "At IFS we pride ourselves on getting closer to our customers and as a world leader in their market, we hope MEKRA Lang will contribute to the ongoing development direction of IFS Applications for the automotive industry. We are looking forward to a long co-operative relationship."

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Mitsubishi Motors Corporation (MMC) Takes MSC.Software's Path Forward to MD Nastran

9 August 2007

MSC.Software announced that Mitsubishi Motors Corporation (MMC), of Okazaki, Japan has adopted MSC.Software's simulation solutions path forward, including a move from point products to MSC MasterKey as well as MD Nastran. By using MSC.Software's simulation solutions, MMC will enjoy faster, more accurate results, increased productivity, improved collaboration, reduced time to market and reduced costs to market.

"Following the lead of European and American automotive manufacturers, Japanese customers are rapidly migrating from point tools to the use of MSC MasterKey as a springboard toward full adoption of MD Nastran and SimEnterprise," reports Christopher St. John, Senior Vice President of APAC Sales for [MSC.Software](#). "MMC is the latest manufacturer to recognize the reduced cost of ownership and more flexible deployment of our solutions and to have taken this important forward step toward consolidation of their structural and motion simulation tools into a single, more flexible environment."

MMC's early experiences with MD Nastran proved to them the value of being able to combine multiple simulation disciplines on a single solver platform; MSC.Software's MD Solutions enable this through the adoption of a single data model for all CAE disciplines. Furthermore, SimXpert and SimDesigner are designed from the outset to support such multi-discipline simulation.

"Our new agreement with MSC.Software provides us with immediate time and cost savings, thanks to simplified administration and broader access to MSC.Software's products," stated Shinji Katsumaru, General Manager of the Digital Engineering Department of MMC. Hirotaka Shiozaki, CAE Manager of the Digital Engineering Department, continued, "We anticipate future savings as MD Nastran allows us to use the same CAE models for multiple applications. We have already seen that we can expand the range of possible simulations using the multi-discipline capability of MD Nastran. This provides efficiency in the short term and also improves accuracy. Looking ahead, we will not be able to meet our objective of simulation driven design without significantly changing what we simulate and how we go about the task. Today we see promise that MD Nastran and SimEnterprise will enable us to reach that objective."

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Schefenacker USA Delivers Faster and Enhances Quality With Dassault Systemes

6 August 2007

Dassault Systemes ([DS](#)) has announced that Schefenacker Vision Systems USA, a Tier One supplier of automotive mirror and lighting systems, has achieved significant benefits through the implementation of CATIA and ENOVIA SmarTeam solutions at its Marysville, Mich. facility. With Dassault Systemes' PLM solutions, Schefenacker has been able to reduce its 3D product geometry development hours by over 31 percent, reduce the cost impact of its design and engineering changes by 38 percent, and bring more programs to market with fewer resources.

Schefenacker's goal was to reduce time spent on geometry creation and modification, to spend more time on enhancing the quality of its products through analysis tools and respond more quickly to customer requests. It also wanted better management of and access to product data.

"We were confident that CATIA, based upon its functionality, had the ability to help us become more efficient," said Gary Sinelli, director of engineering, Schefenacker Vision Systems USA. "Additionally,

through the time saved in geometry creation and management, with CATIA we were able to innovate and develop mirror components that are 18% lighter yet more robust than previous models."

"CATIA's ability to capture an organization's knowledge base has a huge effect in the reduction of design and engineering hours along with the elimination of downstream changes," said Bob Brincheck, Dassault Systemes Automotive Business Unit Director. "Another often overlooked benefit is the fact that there are numerous tools built on Dassault Systemes architecture for full integration with CATIA in the product development process. This greatly influences design early in the development process."

With CATIA any change in a design specification is automatically updated in the related geometry and across all disciplines to ensure that anyone involved in the process is working with the most current data. Using ENOVIA SmarTeam for storage provides a native environment to access and manage CATIA data including standard features and component libraries within Schefenacker's product development process.

About Schefenacker

Schefenacker Vision Systems is the leading global supplier of high- quality, advanced technology in exterior and interior mirror systems, and a supplier of rear and signal lighting systems for automobiles worldwide. It is part of Schefenacker AG, a world leader in automotive mirror systems, lighting systems and audio systems with operations in Australia, England, France, Germany, Hungary, India, Japan, Korea, Slovenia, Spain and the USA.

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Shenyang Blower Works Optimizes Its Data Management with PTC Windchill; New System Supports Design and Configuration Management for over 200 Products with ERP Integration

6 August 2007

PTC, the Product Development Company®, and Shenyang Blower Works announced that Shenyang Blower Works has gone live with PTC Windchill to improve its overall product design and configuration management process. Windchill, PTC's content and process management solution, allows manufacturers to manage any type of product data, including mechanical, electronic and software data within the product development life cycle. Utilizing Windchill has enabled Shenyang Blower Works to design and manage over 200 products, and accurately transmit multiple BOM views to its ERP system.

Shenyang Blower Works is number two in the blower manufacturing enterprise and provides a complete line of parts for industrial equipment, including blowers, compressors, fans and heat exchangers. Since March 2005, the company has been using PTC's Product Development System (PDS) as its standard product development platform. Prior to using PTC, Shenyang Blower Works faced many technical and commercial challenges, such as a lack of accurate, centralized information, as well as a controlled engineering change management process. In order to address these classic problems, it required a more flexible PLM solution.

[Shenyang Blower Works](#) now uses Windchill to thoroughly address its product development challenges. By centralizing data management, as well as change and configuration management, Shenyang Blower Works is able to monitor the entire design process and change process in real time. This has significantly improved its whole product development process, bringing customers a smooth and efficient environment for product development and collaborative management.

“[PTC](#) products have contributed to shorter cycle times, reduced costs and improved product quality over

the past years. Based on this success, we are now expanding our deployment to Windchill in order to better control our design review process and data management,” said Mr. Ma Shaokui, IT manager of Shenyang Blower Works. “With the introduction of PTC’s PDS, Shenyang Blower Works has used the PDS framework to create a step by step roadmap for process and solution adoption and, as a result, has greatly improved the overall product development process. By expanding our use of Windchill, we expect to achieve significant performance improvements in our product development process resulting in increased competitive advantage.”

“PTC’s PDS is able to improve workflows and provide significant advancements in delivery timelines, cost effectiveness and customer service,” said Josh Fredberg, vice president product and market strategy, PTC. “PTC solutions also enable users to efficiently optimize content and process management, and enhance the collaboration of entire value chain. Shenyang Blower Works has become one of the most technologically sophisticated blower enterprises in China and this is having a positive impact on its customer satisfaction.”

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Product News

ANSYS Airpak 3.0 Makes Airflow Modeling Workflow Processes more Productive

8 August 2007

ANSYS, Inc. announced the release of version 3.0 of its ANSYS® Airpak® airflow modeling software. This version of ANSYS Airpak software introduces key enhancements that increase productivity, improve the meshing technology and enhance the realism of displayed results. ANSYS Airpak technologies are now part of the ANSYS, Inc. suite of products, from the company's acquisition of Fluent Inc. in 2006.

This latest version introduces a new and highly intuitive user environment, which features a model manager, advanced object wizards, alignment tools and four-window simultaneous views. The model manager facilitates the creation, edits, replication and other object functions; assemblies; libraries; and problem/project configurations and settings. Centralized model management allows the user to quickly and easily access different aspects of the model, particularly useful when handling large and complex models. Several advanced object wizards make it easy to build a complex model from scratch in minutes. Four-window viewing simultaneously displays complex 3-D models from four viewpoints with on-screen iconic view controls to select viewpoints. The user can manipulate the geometry, as well as post-processing views, from different angles since each of the viewpoints are independently controllable. This powerful visualization tool allows the user to efficiently view the results of simulations of complex models to make appropriate design decisions.

"The newest version of ANSYS Airpak delivers technologies that improve the user's workflow process by letting the user build more computationally efficient and accurate models faster than any other airflow modeling software package. It can greatly enhance computer-aided engineering for ventilation systems," said Ferit Boysan, vice president at ANSYS, Inc.

"The productivity gain provided by the improved user interface in ANSYS Airpak is noteworthy in itself, since it places control at your fingertips rather than buried within menus and sub-menus," said Leon Adams, CFD analyst at SmithGroup in Washington, D.C., U.S.A., who uses ANSYS Airpak software to address complex geometries found in the architecture, engineering and construction (AEC)

industry. "ANSYS Airpak version 3.0 also comes with the ability to create non-conformal meshes, which we (SmithGroup) use to our advantage in tackling the presence of linear slot diffusers within our projects." The company uses ANSYS Airpak technologies at the initial conceptual phase to improve design decision capability as well as to communicate ideas and concepts to their clients.

At Flack + Kurtz, ranked as one of the world's top engineering firms by World Architecture, engineers use ANSYS Airpak technology to confirm and optimize designs such as atriums with radiant floors, offices with under-floor air supply systems, institutional buildings using natural ventilation, large casino areas with displacement ventilation, and data centers. "We are very impressed by the new ANSYS Airpak interface and the ease of use it brings with it. The tree view on the left of the window is very convenient as it helps us navigate and edit easily. The additional functions of aligning the faces of blocks and the additional macros are positive additions, and they help us a lot in the modeling process," said engineer Maria Xia.

ANSYS Airpak 3.0 software also offers a mixed meshing capability in which the user can utilize mixed tetrahedral and hexahedral meshes. The new automatic hex-dominant mesher can be used to mesh geometries quickly and efficiently. It is robust and highly automated, delivering mostly hexahedral elements; it also includes triangular, tetrahedral and pyramidal cells. It uses advanced meshing algorithms to allow the most appropriate cell type to be used to generate body-fitted meshes for the most general geometries.

ANSYS Airpak technology incorporates optimization capabilities that can be applied to the design of ventilation systems. Design optimization reduces the need for trial-and-error simulations in determining the optimum parameters of a ventilation system design. The ease-of-use of the embedded optimization module coupled with an efficient gradient-based optimization algorithm enable the design process to be completed in hours rather than days. Powerful post-processing capabilities, such as comprehensive user-defined post-processing functions and reporting on multiple data sets, help greatly speed up the design process.

The visualization of models and results has been enhanced by adding the ability to display textured surfaces, specify degrees of transparency for selected surfaces and apply various lighting to the model to provide more realistic scenes.

For downloadable, high-resolution images, visit <http://www.ansys.com/newsimages>.

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Autodesk AliasStudio 2008 Personal Learning Edition Available Now

6 August 2007

WHAT: Autodesk announced the latest version of its AliasStudio Personal Learning Edition software. The Personal Learning Edition (PLE) is a special version of Autodesk AliasStudio 2008 software that provides free* access to the products for non-commercial use. The AliasStudio 2008 PLE provides a custom interface and learning resources that allow industrial designers to learn the basic tools and techniques of AliasStudio and help them become productive quickly. Autodesk AliasStudio software is a conceptual design tool allowing industrial designers in automotive, transportation or product design disciplines to create sketches and 3D concept models digitally in an environment that's comfortable to them. Autodesk concept design tools let industrial designers express themselves digitally in a format that can be incorporated into a digital prototype.

WHAT'S INCLUDED: Autodesk AliasStudio PLE includes a full set of tutorials that provides designers with a typical concept design workflow. These tutorials introduce the tools and interactive features of Autodesk AliasStudio 2008 and demonstrate how to effectively accomplish concept design with detailed step-by-step instructions and videos. Additional learning materials include an AliasStudio to Rhino transition guide, design workflow videos and printable references on essential model and rendering basics

WHERE TO GET IT: Autodesk AliasStudio 2008 PLE software is available free* for download at <http://www.autodesk.com/studiople>

CONTACT: For more information about Autodesk AliasStudio 2008 PLE software, please contact:

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Autodesk Announces Autodesk 3ds Max 2008 Modeling, Animation and Rendering Software

6 August 2007

Autodesk, Inc. announced Autodesk 3ds Max 2008 software, the latest version of its out-of-the-box solution for 3D modeling, animation and rendering. 3ds Max 2008 enables artists and designers to overcome challenges associated with large and complex 3D datasets. The software has been used to create numerous notable projects, including visualizations for the EMI Records building in London, the Mass Effect game and the Grindhouse movie. 3ds Max 2008 will be showcased at the Autodesk booth (#703) during SIGGRAPH 2007, being held at the San Diego Convention Center August 7-9.

"Autodesk 3ds Max 2008 provides an ideal environment for creating the complex 3D content demanded by today's game, design visualization, film, and television industries," said Marc Petit, Autodesk Media & Entertainment senior vice president. "3ds Max 2008 dramatically improves artists' productivity, enabling them to quickly achieve higher levels of visual sophistication through innovative modeling and interactive rendering capabilities."

Neversoft Entertainment used 3ds Max to create Tony Hawk's Project 8, the premier next-generation version of a Tony Hawk title. "Autodesk 3ds Max let us quickly visualize our work as it would appear in the game engine," explained Nolan Nelson, character art director at the facility. This kept our creative momentum flowing and allowed us to produce the most advanced characters possible for the title."

Robert Stava, creative director at 3D Media Group and 3ds Max 2008 beta tester said, "Autodesk 3ds Max 2008 quickly became a standard part of our production pipeline. With many of our architectural design projects tipping the scales at millions of polygons, 3ds Max 2008 software's improved handling of complex data is a very welcome addition." 3D Media Group recently used 3ds Max to create visualizations for the Fulton Street Transit Center in New York City, the Zayed Stadium in Abu Dhabi and the New Songdo City in Korea.

Highlights of 3ds Max 2008

Improved viewing and handling of large complex scenes:

- New viewport technology and optimizations provide improved performance with large and

CIMdata PLM Late-Breaking News

complex scenes consisting of tens of thousands of objects. Artists can select thousands of objects and perform material assignments up to 10 times faster. They can also transform objects up to 60 times faster.**

- 3ds Max 2008 offers a new Scene Explorer, which provides artists with a hierarchical view of scene data, as well as fast scene analysis and editing tools. This facilitates working with complex, object-heavy scenes. It also includes a new Adaptive Degradation System, which improves the software's interactivity by automatically simplifying the scene display to meet a user-defined target frame rate.

New options for fast, artist-friendly modeling:

- New modeling user interface options give artists a less menu-dependent modeling experience.
- 3ds Max 2008 offers conceptual design artists and modelers a more streamlined modeling workflow, which enables them to focus more on the creative process.

New Review toolset and mental ray workflow improvements:

- The new Review toolset provides iterative rendering workflows with interactive previewing of shadows, the 3ds Max sun/sky environment, and Architectural and Design material settings.
- 3ds Max 2008 also provides several mental ray workflow improvements, including a new mental ray Sky Portal, which simplifies lighting indoor scenes using outdoor lighting and supports HDRI-based lighting effects.

New tools and enhancements for complex workflows and pipelines:

- The new integrated MAXScript ProEditor makes it easier to author scripts that automate and customize 3ds Max.
- Major improvements in file-linking and interoperability with other Autodesk design solutions provide faster, more accurate importing of data into 3ds Max. Furthermore, new features, such as Select Similar, facilitate work with imported data inside of 3ds Max.

For a complete list of new features and enhancements in Autodesk 3ds Max 2008, visit <http://www.autodesk.com/3dsmax>.

Pricing and Availability

Autodesk anticipates that 3ds Max 2008 will be available in English in October 2007. The Autodesk suggested retail price for 3ds Max 2008 software is US\$3,495*. The Autodesk suggested retail price to upgrade from 3ds Max 9 to 3ds Max 2008 is US\$795*.

Subscription is available for purchase simultaneously with the product purchase or upgrade. The Autodesk suggested retail price for 3ds Max Subscription is US \$495* per year. Subscription customers qualify for access to the latest software updates, valuable product extensions and e-learning materials. For more information about 3ds Max Subscription, please visit <http://www.autodesk.com/subscription>.

* International pricing may vary.

**Performance data is based on comparisons with Autodesk 3ds Max 9, based on tests conducted by Autodesk over a controlled network, using Windows XP Professional (32b) and DirectX 9c graphics hardware. As with all performance tests, results may vary based on machine, operating system, filters, and even source material. While every effort has been made to make the tests as fair and objective as

possible, your results may differ. Product information and specifications are subject to change without notice. Autodesk provides this information "as is," without warranty of any kind, either express or implied.

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Autodesk Launches Autodesk Maya 2008 Software

6 August 2007

Autodesk, Inc. announced Autodesk Maya 2008 modeling, animation, visual effects and rendering software. The new version of the Academy Award-winning product focuses on providing improved workflow efficiency for artists in the film, television, game development, design and manufacturing industries. Maya has been used in the creation of countless high-profile projects such as the Pan's Labyrinth and Spider-Man 3 movies, as well as the Resistance: Fall of Man, and John Woo Presents Stranglehold games. Maya 2008 will be showcased at the Autodesk booth (#703) during SIGGRAPH 2007, held at the San Diego Convention Center August 7-9.

"Artists need production-proven solutions that they can truly depend on," explained Marc Petit, Autodesk Media & Entertainment senior vice president. "With Autodesk Maya 2008, we have placed considerable emphasis on raising the reliability bar higher than ever before. Designed for multi-core workstations, the 2008 release provides artists with an optimized application that includes new creative tools in modeling and animation to help artist meet demands quickly and easily."

"On all fronts Autodesk has improved Maya software's arsenal of tools," noted Rob van de Bragt, animation director at post-production facility The Mill. "Maya 2008 offers more flexibility in its modeling, rigging and rendering tools than ever before." The Mill recently used Maya on the Audi A5 ad Lines, the Playstation 3 commercial This Living, the Absolut commercial Protest, as well as the Comfort ads City Stop and Do The Moves.

Insomniac Games relies on Maya as a modeling and animation tool for several titles including Resistance: Fall of Man. Chad Dezern, art director at the facility said: "When a problem comes up, artists can usually work it out using the Maya toolset. When we need to build on the software, Maya offers an extremely flexible API, which makes it a great hub for our proprietary modeling tools."

Highlights of Maya 2008

Increased polygon modeling efficiency:

- Maya 2008 enables artists to quickly create, manipulate and place polygons that form highly detailed characters and environments, through a streamlined Mesh Smooth workflow, a new Slide Edge feature and improvements to Booleans, Bridge, Bevel and other tools.

Overall performance improvements for greater efficiency:

- With Maya 2008, Autodesk continues the task of optimizing the software's toolsets to provide greater performance through both multi-threading and algorithmic speed-ups. For example*:

Tools for creating better looking games:

- Maya 2008 is better equipped to create and display content destined for the Nintendo Wii, Microsoft Xbox 360 and Sony PlayStation 3 game consoles. It offers support for DirectX HLSL shaders in the Maya viewport, a new hardware shader API, enhancements to the high-quality

render view, accelerated mental ray texture baking performance, and more.

Increased flexibility for character setup and animation:

- Building upon the Maya software's advanced, customizable animation system, Maya 2008 delivers improved skinning and rigging toolsets, including new, non-destructive skin editing capabilities. These enhancements allow animators and Technical Directors to efficiently explore ideas, manage iterations and get superior results, faster.

For a complete list of new features and enhancements in Autodesk Maya 2008, visit:

<http://www.autodesk.com/maya>.

Pricing and Availability

Autodesk anticipates that Maya 2008 will be available in English in September 2007. Maya 2008 will be supported on the Windows and Linux operating systems (64-bit and 32-bit versions), as well as Mac OS X for Intel-based Macintosh and PowerPC computers (32-bit version only).

Autodesk suggested retail pricing is US\$1,999* for Maya 2008 Complete (Standalone) and US\$6,999* for Maya 2008 Unlimited (Standalone). The upgrade price from Maya 8.5 Complete to Maya 2008 Complete is US\$899*, and the upgrade price from Maya 8.5 Unlimited to Maya 2008 Unlimited is US\$1,249*.

Platinum Membership is available for purchase simultaneously with the product purchase or upgrade. The Autodesk suggested retail price for Maya Platinum Membership starts at US\$1,299* per year. Platinum Membership customers qualify for access to the latest software updates, technical support case management, valuable product extensions and e-learning materials. For more information about Maya Platinum Membership, please visit <http://www.autodesk.com/maya-support>.

Maya Learning Tools

A variety of Learning Tools are available for Maya, ranging from introductory to advanced skill levels. Learning Autodesk Maya 2008 | Foundation is a new book that enables users to quickly familiarize themselves with Maya 2008. It offers a hands-on introduction to key Maya tools and techniques by enabling users to create and animate characters based on the Sony Pictures Animation feature film Surf's Up. Learning Autodesk Maya 2008 | Foundation is priced at US\$69.99*. For additional details, please visit <http://www.autodesk.com/learning-tools>.

* International pricing may vary

** Performance data is based on comparisons with Autodesk Maya 8.5, based on tests conducted or commissioned by Autodesk over a controlled network, with test participants having varying levels of experience with the software. All benchmarks were run on an HP xw6400 workstation under 32-bit Windows XP Service Pack 2 configured with 2.66GHz dual processor, dual core with 3Gb of RAM and an NVIDIA Quadro FX 3500 graphics card. As with all performance tests, results may vary based on machine, operating system, filters, and even source material. While every effort has been made to make the tests as fair and objective as possible, your results may differ. Product information and specifications are subject to change without notice. Autodesk provides this information "as is," without warranty of any kind, either express or implied.

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Automated Surface Contact Generation (ASCG) Provides Major Improvement for FEA Users

Modeling Assemblies

6 August 2007

Noran Engineering, Inc. (NEi) announced a major improvement in the ability to create models that simulate true surface-to-surface contact. The enhancement entitled Automated Surface Contact Generation (ASCG) is included in the V9.1 release of NEi Nastran.

Engineers involved in computer modeling and analysis of structures containing discontinuous parts often find that getting realistic results can be very difficult, exceedingly time consuming, or simply not possible using traditional Finite Element Analysis (FEA) tools. ASCG automatically finds and sets up the appropriate contact between different bodies within a specified proximity. This feature can be a major factor in productivity with the opportunity to cut run times from hours to minutes. It should also be noted that ASCG can be used on legacy models. Using ASCG a user can easily add surface contact to an existing Nastran model input file or replace gap contact with the more robust surface contact. The process is completely automated and only requires a single command. Unlike automated contact in other pre and post processors, NEi's ASCG works at the FEA level with an existing Nastran model allowing for true legacy model support.

Of equal importance, ASGC opens the way to achieving much higher levels of real world fidelity for virtual testing. In particular, a wide range of assembly scenarios can be addressed using NEi Nastran's extensive suite of contact capabilities which covers sliding, welded, and free movement between surfaces and includes modeling difficult features like dissimilar shell meshes from extracted mid plane models, shell face to shell edge with or without gaps, mid surface meshes, and offset welds. ASCG has been credited with productivity gains and better quality models in diverse applications ranging from large ship models to production fixtures.

More detailed information can be obtained by enrolling in the Knowledge Base Center at <http://www.nenastran.com/KnowledgeBaseCenter> and downloading either the White Paper or PowerPoint entitled "Automated Surface Contact Generation Usage in NEi Nastran" or registering for an upcoming webinar at <http://www.nenastran.com/newnoran/webinar>. In addition, a discussion of the full range of V9.1 additions which includes items such as Automated Impact and Drop Test and Hyperelastic materials can be found at <http://www.nenastran.com/newnoran/announcingV91>. NEi provides internet demonstrations and evaluation software for qualified organizations.

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AVEVA Announces New, Unique Open P&ID Approach With AVEVA Plant

6 August 2007

AVEVA announced that its new open P&ID approach with AVEVA Plant provides features for consolidation of all Piping & Instrumentation Drawings (P&IDs).

AVEVA Plant's new open approach to P&IDs is based on the creation of a common schematic model to represent the complete logic of systems in a project. This is an extension of the proven AVEVA database technology for storing plant models.

P&IDs for a plant project are often created in a wide variety of different tools and this is becoming more and more the case as projects are split between different engineering companies. As a result, developing a consistent set of P&IDs for a complete project as the design evolves is a complex task for designers. Approval of the latest versions of P&IDs and highlighting of inconsistencies takes considerable time

and, if not carried out correctly, can lead to major design rework.

The AVEVA Schematic Model can store P&ID's from various intelligent P&ID applications in an ISO15926 compatible format. As it runs on the AVEVA technology platform it has access to all the database and functional capability of the environment. This gives benefits such as a fully functional multi user database with the potential for use in globally distributed projects and the tracking of changes during design development.

Bruce Douglas, Vice President Industry Solutions at AVEVA said "Our approach is to provide the maximum choice in the selection of engineering authoring tools. The open approach means that P&ID data can be uploaded to the AVEVA Schematic Model from any P&ID system that can deliver P&ID data in the ISO 15926 format. Currently supported P&ID formats are: AVEVA VPE P&ID; AVEVA P&ID Designer; Smartplant P&ID. AVEVA P&ID Designer, jointly developed with Autodesk, is based on AutoCAD P&ID".

AVEVA's P&ID approach is targeted at the provision of a completely flexible modular solution, ranging from a departmental, sheet-based, optimised drafting tool with no database, to an enterprise-level solution encompassing event-driven, managed synchronisation between drafting and database. The packaging gives customers the flexibility to mix and match modules to suit their business requirements.

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AVEVA Announces the Release of AVEVA VPRM 9.6 SP2

8 August 2007

AVEVA announces the release of AVEVA VPRM 9.6 SP2.

AVEVA VPRM allows the effective management of materials, vendor documents, design documents, progress and costs through all phases of a project from inception to handover. It also includes an overarching management information system summarising all AVEVA VPRM activities for project management.

Service Pack 2 for Release 9.6 builds on the productivity enhancements introduced in Release 9.6, and extended by Service Pack 1.

It includes:

- Improvements to the data mechanisms which support interfaces with AVEVA PDMS and PDS related to catalogue, piping specification and the multi-discipline MTO activities.
- Enhanced control and audit capabilities in maintaining key procurement data, related to ownership of data, and recording the "who & when" for key events.
- A more flexible process around grouping material issue notes into practical issue groups, removing the hard link between the scope of allocation process and material issue, and including ability to re-use previous process run parameters.
- A powerful potential to modify all screen text to suit a user's native language, facilitating generation of data entry procedures in different languages.
- Improved access security using Microsoft Windows Authentication.
- Plus, further productivity enhancements in the materials management business area.

Richard Longdon, CEO of AVEVA comments: "The release of AVEVA VPRM 9.6.SP2 brings more productivity enhancements that continue to allow users to better manage their projects by reducing time and cost; thereby facilitating the most efficient use of project resources, and helping to retain and re-use valuable project experience."

AVEVA VPRM 9.6 SP2 is now commercially available.

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CENIT Launches New Offline Programming for 3D Surface Base in DELMIA V5

2 August 2007

The new manufacturing software FASTSURF for coating processes fully integrated with the DELMIA V5 software platform continuously supports the offline programmer and equipment planner from process definition to offline programming, simulation and analysis. Especially in analysis, FASTSURF offers enormous added value through the possibility of simulating spraying processes such as the lacquering job, for example.

"As a long time software development partner of Dassault Systèmes, CENIT closes a significant gap in the virtual simulation process within DELMIA V5", according to Peter Hinkel, Director Digital Manufacturing Solutions at CENIT. He adds that "through the seamless integration of FASTSURF based on the available CAA V5 platform and direct access to native V5 data, a completely closed process without interruptions in the media is now possible".

"We see the new CENIT software FASTSURF product as a sensible extension of the DELMIA product range, which offers companies from very different industries an efficient add-on in the area of spraying processes", states Minal Santhosh, Manager - CAA partnership at Dassault Systèmes.

In addition to the flexible DELMIA robotics function for the analysis of diverse coating processes, the added value of FASTSURF is founded on powerful algorithms for efficient surface-related path planning. The integrated offline programming quickly and reliably creates smooth, collision-free movement, thus offering additional time savings over the manual teach process. Diverse modification and optimisation options as well as an extensive robotic library round off the technical operating procedures of the new CENIT product.

"Our offering to the customer is the consistent continuation of a successful CENIT product range and makes full use of the potential of the PLM platform from Dassault Systèmes. Again, we are opening up significant innovation potential for proven industry scenarios, thus offering decisive added value for manufacturing companies in transforming their processes", says Kurt Bengel, Member of the Executive Board at CENIT, formulating the objectives of the new software solution.

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Dassault Systemes, NVIDIA and mental images Collaborate to Streamline 3D Visualization for Design and Production Facilities

7 August 2007

Dassault Systemes ([DS](#)) has teamed up with graphics technologies leaders NVIDIA Corporation and mental images® to extend sophisticated shader technology to every user in the style and digital mock-up review processes, the companies announced. Wider access to shading tools enables companies to create

richer, more detailed simulations that yield higher quality 3D renderings that reflect the real world.

"Aesthetics and design quality create emotions and are key contributors to product success and brand recognition by consumers. DS V5 Real-Time Rendering solutions, complemented by NVIDIA's FX Composer 2.0 and mental mill™ shader technology from mental images, moves rendering a step ahead in realism and ease of use, allowing to accurately perceive aesthetics during the design phases," said Philippe Laufer, vice president, CATIA research and development, Dassault Systemes.

This next-generation of shader functionality in CATIA, ENOVIA AND DELMIA, compliant with NVIDIA CgFX shader technology and OpenGL, offers high-quality rendering to a broad new community of rendering experts to CAD users and technical artists accustomed to working in the DCC world. It enables them to create more realistic simulation renderings in conceptual design that help companies make design changes and modifications early in the process, where they are easy and economical, rather than later in the process. Integration between NVIDIA, mental images and DS V5 products enable users to create shaders for use in CATIA-designed 3D models quickly and simply. It also spans user skill levels from rendering expert to CAD user to technical artists with no programming experience.

"The shader creation workflow we are enabling for DS' products is a significant advantage for companies engaged in modern design and production," said Jeff Brown, general manager, professional solutions, NVIDIA. "This latest shader technology collaboration between NVIDIA, Dassault Systemes and mental images delivers a completely fluid way for DS customers to improve the design process in design and review. Users can now create shaders without the need for programming and this opens the door for realistic visualization throughout the entire design process."

NVIDIA FX Composer 2.0 delivers powerful shader editing and integrated shader performance analysis tools, as well as supporting shader libraries, plug-ins, and scripting. mental mill Artist Edition from mental images gives technical artists and designers the ability to create customized shaders for V5 with an intuitive graphical interface that eliminates the need for shader programming.

mental mill is a new shader creation tool for all levels of expertise. A familiar graph editing paradigm allows the creation of complex shaders without programming skills. mental mill is based on MetaSL™, a new meta shader language, developed by mental images. Shaders written in MetaSL are independent of platforms and rendering algorithms, with a single shader supporting various hardware and software rendering techniques (e.g., CgFX, HLSL, GLSL, mental ray). mental mill's graphical and interactive editing approach offers a significant productivity gain versus traditional shader creation methods. This enables users with little or no programming skills to generate the most complex shaders and phenomena.

DS, NVIDIA and mental images will demonstrate the results of this technology collaboration at the SIGGRAPH 2007 convention, Aug. 7-9 at the San Diego Convention center in San Diego, Calif., NVIDIA booth # 513.

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Dassault Systèmes Simplifies Semiconductor Design with Microsoft Visual Studio Integration

8 August 2007

Dassault Systèmes ([DS](#)) announced a new plug-in for its semiconductor design management solution, ENOVIA MatrixOne Synchronicity DesignSync 5.0, which allows programmers working in Microsoft® Visual Studio® to access, manage and collaborate on DesignSync files from within their familiar

desktop environment without having to learn new tools. The Visual Studio plug-in is available with the newly released DesignSync Windows OS product and is compatible with Visual Studio 2003.NET and 2005.NET.

“Software is an integral part of the integrated circuit design process, and anything that takes a software programmer out of his or her design environment costs companies time, money and accuracy,” said John Stanglewicz, director, Product Management, ENOVIA MatrixOne, Dassault Systèmes. “This latest addition to ENOVIA MatrixOne Synchronicity DesignSync adds a transparent link from one of the most widely used software design environment, Microsoft Visual Studio, to every other user in the design process.”

DesignSync enables programmers using a variety of electronic design automation (EDA) tools from vendors such as Cadence, Synopsis and Mentor Graphics to share files through easy pull down menus and tool bar access without having to toggle through a variety of systems. In addition, based on ENOVIA MatrixOne’s “EDA Data Awareness™” approach, DesignSync is the only solution that enables semiconductor companies to co-manage their hardware and related software designs in the same Design Data Management (DDM) environment – crucial to managing the inherent complexity of the multi-file binary objects and databases produced by EDA tools.

Launched in February 2007, ENOVIA MatrixOne's Synchronicity DesignSync® 5.0 is the latest version of the company's semiconductor design data management platform and is the industry's first unified design data management (DDM) system to span the entire semiconductor design chain, from specification through the completed integrated circuit. More than 120 organizations, including 13 of the top 15 semiconductor companies, take advantage of ENOVIA MatrixOne's 10 years of experience in the industry to boost design productivity, reduce design and development costs, leverage design expertise, improve quality, and accelerate time to market.

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Delcam Launches New ArtCAM Pro Software for Artistic CAD/CAM

8 August 2007

Delcam has released a new version of its ArtCAM Pro CAD/CAM software for artistic applications. The program is aimed at skilled artisans rather than engineers and requires little knowledge of engineering or computing. It has been particularly successful in the signmaking, woodworking and jewellery industries, where it allows users to increase productivity, improve quality and deliver new designs more quickly.

The main change in the latest version is the addition of a new file type called the 3D Project. This allows the user to create multiple models within a single project, using the wide range of 3D modelling tools within the software. The individual models can then be arranged to create larger assemblies. For example, the sides of a cabinet could be designed as individual components and then assembled into a 3D model of the complete piece. Once the design had been approved, the separate panels could then be arranged onto a sheet of material and their machining programmed in a single operation.

3D Projects also allow the simultaneous visualisation of objects that will be created from different materials and the subsequent division of the components into separate files for manufacturing in the various materials. Items can be cut and pasted between different files, so allowing libraries of components to be built up for use in a variety of designs.

For models built up from simpler shapes in the same material, the complete design will be able to be

produced as a single piece, either by rapid prototyping or by machining using a multi-axis CNC machine or a simpler machine with manual indexing of the material.

The most important enhancement in ArtCAM Pro's machining is a new 3D offset strategy that gives a much better surface finish with harder materials. This will be especially useful when machining production tooling from ArtCAM designs, such as dies for greeting cards, and when engraving decorations created in ArtCAM into moulds for plastics.

A new Machining Wizard has been added that simplifies the setting-up of multi-axis machining of complex models. In addition, a new option allows models to be sliced into layers that can be machined individually and then assembled.

Many of the existing routines in ArtCAM Pro have been rewritten for the new release. The new algorithms have produced significant speed improvements, especially in 3D modelling and in 2D machining.

Finally, ArtCAM Pro is now able to import solid and surface data from the full range of CAD systems supported by the Delcam Exchange data translation service. Formats covered include CATIA, Unigraphics, Pro/Engineer, SolidWorks, AutoCAD Inventor and Solid Edge.

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Right Hemisphere Expands Into South Africa With Top VAR/SI ESTEQ

6 August 2007

ESTEQ Group (Pty) Ltd, a leading supplier of Product Lifecycle Management (PLM), Simulation and Testing solutions in South Africa, has signed a value-added reseller and systems integrator (VAR/SI) agreement with Right Hemisphere®. As a [Right Hemisphere](#) VAR/SI, ESTEQ is authorized to sell and implement all of Right Hemisphere's products and serve as the primary line of support to customers in the region. ESTEQ is the first company to bring Right Hemisphere's advanced software to South Africa. With these solutions, ESTEQ will enable South African manufacturers to extend their product data management (PDM) information outside of engineering and into the rest of the organization.

"Manufacturers in North America and Germany have already implemented Right Hemisphere's software and realized tremendous value from getting their critical visual product information out of traditional engineering formats and into formats more commonly used and shared among non-engineers, like PDF, for example," said ESTEQ Group's Technology Director Clinton Stone. "It's time to extend those same operational efficiencies to manufacturing concerns in South Africa and our seasoned PLM division is the best team to deliver them."

ESTEQ's Engineering division will handle all Right Hemisphere software sales and the PLM division will manage the implementations in South Africa. With customers such as General Motors South Africa, Nissan, and Ford and over 12 years of experience in deploying and supporting successful PLM-related systems, ESTEQ is highly qualified to deliver Right Hemisphere's advanced solutions.

"ESTEQ is a leader in South Africa for its solid PLM proficiency and thorough knowledge of the local market," Randy Ochs, vice president of strategic alliances and channel development, said. "This team understands how to make its manufacturing customers more competitive. With Right Hemisphere's software, [ESTEQ](#) will be giving its customers the ability to capture and re-use their product data -- typically stored in CAD and PLM systems -- and make it available to knowledge workers throughout the enterprise in common, industry-standard formats for tremendous productivity gains."

ESTEIQ serves top companies in the automotive, aerospace and defense, machinery and tooling, and consumer products industries. In addition to General Motors South Africa, Nissan, and Ford, ESTEQ has assisted Anglo Platinum, PBMR, ESKOM, DENEL, Anglo America, De Beers, CSIR, CBI, Linatex, BAE Systems, Bell Equipment, Simba, National Brands and other companies with technology implementations to improve their businesses.

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SAP Deepens Value to Midsize Companies by Adding 60 Offerings to Its Family of SAP® Best Practices

6 August 2007

SAP AG announced that it is adding 60 SAP® Best Practices offerings to deepen its industry- and geographic market-specific support for midsize companies. Designed for SAP® All-in-One solutions, SAP Best Practices offerings include "out of the box" integrated business processes, methodologies and documentation to help companies expedite solution implementation and improve operational excellence. The 60 new offerings include 23 industry and cross-industry versions across 37 countries. They will help companies in these segments draw on the proven expertise of SAP and its customer and partner ecosystem.

The SAP Best Practices allows companies to increase the speed and efficiency of implementations as well as the ability to focus on competitive differentiation by starting with preconfigured industry best practices out of the box. The new offerings cover business process scenarios for specific industries such as process manufacturing, consumer products and professional services and are further available in specialized country versions to support customers in all operating regions of SAP.

Combining SAP business process expertise in serving the world's leading companies with the know-how of SAP All-in-One channel partners, SAP Best Practices offerings meet the resource, price and industry requirements of midsize companies while laying a scalable foundation for business growth. Together with SAP® ERP, the offerings provide the business foundation that SAP All-in-One partners further enhance with their unique industry expertise and services to create qualified SAP All-in-One solutions. Midsize companies can choose from a broad micro-vertical portfolio of over 650 qualified SAP All-in-One partner solutions available in more than 50 countries.

"Based on its industry-leading ERP application, SAP Best Practices offerings combine with SAP All-in-One to provide us with a solid enterprise foundation upon which we can easily infuse our expertise and build new solutions," said Lars Landwehrkamp, CEO, All for One. "We work directly with customers to swiftly implement SAP software, enabling them to leverage newfound processes to address pressing business challenges and secure additional solution value."

Further flexibility is built into the new offerings by leveraging the latest release of SAP ERP and the SAP NetWeaver® platform. Based on enterprise service-oriented architecture (enterprise SOA) technology, the new version of SAP ERP enables growing businesses around the world to quickly deploy SAP ERP while lowering operating risks and providing the flexibility to fine-tune and tailor to a customer's specific requirements.

More than 9,600 SAP All-in-One customers around the world leverage SAP Best Practices to experience faster deployment and return on their investment. A manufacturer and distributor of ready-to-eat cuisine, Sinaloa, Mexico-based Productos Chata selected SAP All-in-One to improve financials and customer service through strengthened reporting and enhanced integration between sales and purchasing. By

leveraging a country-specific SAP Best Practices offering to ease the deployment process, the consumer products company accelerated its implementation and the adoption of new business processes, avoiding the disruption of its complex supply and distribution channels.

"As a growing company, we required a solution that could be deployed quickly, but was also highly specialized to fit our business needs," said Raul Achoy, IT Manager, Productos Chata. "The SAP Best Practices offering enabled our SAP All-in-One solution to directly support both consumer products scenarios and Mexican business requirements, saving us valuable time through preconfigured business processes that we didn't have to customize."

Headquartered in Boynton Beach, Florida and managing the largest supply and installation of brick pavers in the United States, the Royal Construction Group spent considerable time evaluating ERP systems. Augmenting a difficult decision were the burgeoning divisions managed by Royal Construction Group including cultured stone and rock face, precast, retaining walls and heavy exterior timbers and interior carpentry. Royal Construction Group selected SAP All-in-One to streamline financial, procurement and sales processes across divisions and provide more visibility into projects and schedules as well as forecasting procurement requirements and booked revenue. Working with partner Global Enterprise Management Solutions (GEMS), a practice within global technology services provider EDS, the Royal Construction Group leveraged SAP Best Practices to fully automate the entire project cycle, from sales order to cash receipt, and implement efficient web-based portal technology for remote, real-time field operations management.

"Since our business model requires quick, efficient transactions to support a wide range of time-sensitive construction projects, software implementations must take hold quickly while leaving us at full operational capacity," said Michael Goldberg, CFO, Royal Construction Group. "SAP and GEMS provided a tailored plan that applied construction industry best practices to rapidly install the solution. Our streamlined sales and financial processes have allowed us to improve material procurement and maintain challenging delivery schedules that ultimately improve our customer service and competitive advantage."

"The SAP Best Practices offerings address the process requirements and unique business characteristics of midsize companies operating in dozens of industries around the world," said Hans-Peter Klaey, president, SME, SAP AG. "Through continued collaboration with our channel partners, we will develop and deliver innovative SAP Best Practices offerings that help our customers realize shorter, more predictable and affordable implementations and increased operational flexibility."

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SAP Unveils Road Map for Extended Product Lifecycle Management

8 August 2007

SAP AG unveiled its road map for the SAP® Product Lifecycle Management (SAP PLM) application, which will help companies successfully address two dominant business trends -- the accelerated speed of change and the need to differentiate through innovation within their business network. Over the next three years, the extended application will build on existing SAP PLM capabilities to provide an end-to-end solution that helps companies accelerate and simplify the "business of products" as well as effectively collaborate with their business networks. With this road map, SAP will help customers successively drive PLM beyond the engineering department and into all relevant business areas throughout the company and beyond, enabling them to tap into the full business potential of PLM.

Based on SAP® ERP, new releases of SAP PLM will leverage enterprise service-oriented architecture (enterprise SOA). As a flexible, service-enabled application, SAP PLM will help companies collaborate with their business networks of suppliers, customers and partners across disparate IT systems to bring innovative offerings quickly and efficiently to market. The application will evolve through enhancements to core PLM capabilities that will begin this year with the first in a series of quickly deployable composite applications.

Greater innovation and efficiency in designing, developing and quickly delivering new products to market are helping organizations to differentiate from competitors. With the increasing complexity of global business, organizations require an open, end-to-end PLM system that also covers the development and delivery of the services that take a greater portion of the revenue mix. Customers benefit from the deep integration between all applications of the SAP® Business Suite, enabling seamless data and process flow between SAP PLM and other applications such as SAP ERP, SAP® Customer Relationship Management, SAP® Supplier Relationship Management and SAP® Supply Chain Management. SAP PLM will be designed to support product lifecycle management processes across industries, including the engineering-driven discrete industry as well as the consumer products and process industries that focus more strongly on product and portfolio management.

"At Kongsberg Automotive, we successfully work with SAP PLM on a daily basis to continuously optimize our product lifecycle management processes and are convinced that the upcoming new functionalities will enable us to remain at the forefront of our business," said Per Hogberg, business system senior project manager, Kongsberg Automotive. "As a manufacturing company, our future success depends on innovative products and solutions. We firmly believe that SAP PLM provides us with the relevant processes to successfully grow and compete in the modern day business world."

The Road Ahead for SAP PLM

Enhancements to the core capabilities of SAP PLM will begin at the end of this year with new processes for portfolio planning that will reduce time to market for new products. Capabilities such as idea and portfolio management as well as resource and project management will improve the steering of the complete innovation process.

In 2008, SAP will focus on further simplifying the PLM user interface with an intelligent role-based offering of information. Users will be able to easily adopt the solution with less training and fewer manual activities for higher efficiency and productivity. Additionally, a set of new and extended capabilities will facilitate worldwide collaboration amongst all stakeholders and help organizations strategically align their networks of talent.

With a new PLM enhancement package in 2009, SAP will enable customers to drive business acceleration through improved integration of all relevant processes into product development. New capabilities will allow the management of all product-specific information such as ideas, design, requirements, variant configuration and maintenance structure in one integrated system and will optimize data consistency as well as process flow from the design and engineering departments to manufacturing, sales and service.

A further PLM enhancement package, planned for 2010, will allow the assimilation of real-world information. This enhancement will enable the design, simulation and tracking of digital design and manufacturing processes, supported through the integration with digital manufacturing tools. Worldwide product information can then be linked via radio frequency identification (RFID) tags, bar codes or sensors with data from the product development process to enable greater visibility, accountability and

accuracy in areas such as regulatory compliance and manufacturing.

"Kimberly-Clark is committed to meeting the unmet, or under met, needs of our retail and business-to-business customers and consumers by constantly delivering to market new product innovations," said Sue Dodsworth, VP of Enterprise Innovation Capabilities and Services, Kimberly-Clark. "To ensure we deliver on this commitment, it is critical we have the right set of business and technological tools in place that will work in tandem with our product development decision processes. We chose the SAP PLM application because we believe it has the functionality needed to support this process, while at the same time helping enhance the strategic management of the entire life cycle of our product solutions."

As part of its strategy of co-innovation, SAP collaborates closely with communities of partners to solve industry-wide issues, yielding tremendous benefits for customers. For example, SAP works with third-party software vendors, such as all major computer-aided design (CAD) vendors, to develop applications that extend and add value to SAP solutions across a variety of industries and business processes, as well as with services partners that help SAP customers implement and integrate SAP solutions.

"At SAP, we believe that the true vision and greatest value of PLM lies in its ability to drive the entire 'business of products' -- from the very first idea through to design, manufacturing and product services," said Harald Stuckert, senior vice president and general manager of PLM, SCM and Manufacturing at [SAP AG](#). "With Hans Thalbauer, the new head of Solution Management PLM, SAP is on course to deliver on its road map, helping customers drive profitability of products and business growth with an end-to-end PLM solution."

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Theorem's Translators are Three Times Faster

6 August 2007

Theorem Solutions has redeveloped its comprehensive range of Pro/E translators to provide major operating speed improvements

With a completely revised software structure, Theorem's new series of CADverters will typically translate data to and from PTC's Pro/E format three times faster than before.

"Under test conditions, we have regularly achieved translation speeds up to 10 times quicker than anything we have seen previously," says Theorem's Product Development Manager, Trevor Leeson. "Such an improvement in processing speed means that customers can easily double or treble their throughput using our Pro/E translators, with corresponding cost and productivity benefits."

The establishment of strategic partnerships with organisations such as Dassault, PTC and UGS also enables Theorem to keep pace with the development cycles of all major design systems. Accordingly, its new Pro/E CADverters are fully compatible with the latest CAD releases – allowing users to freely translate data to and from UG NX2, NX3, NX4 and now NX5, as well as CATIA V5 release 17 and SolidWorks 2008, for example. In addition, Theorem's use of vendor-supported Application Programming Interfaces (APIs) guarantees the performance of its translators in reading or writing a wide variety of native data formats.

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