# PLM Industry Summary

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# Acquisitions

## CollabNet® and VA Software Sign Asset Purchase Agreement for Acquisition of SourceForge® Enterprise Edition Business by CollabNet

24 April 2007

CollabNet, Inc. and VA Software Corporation announced the execution and closing of an asset purchase transaction whereby CollabNet purchased the SourceForge Enterprise Edition business from VA Software in consideration for an equity ownership stake in CollabNet. The parties have also entered into a 30 month media relationship for online advertising services.

SourceForge Enterprise Edition is a strategic addition to CollabNet, bringing the two collaborative software development solutions for distributed teams under the same roof. The combined entity will support more than 300 enterprise customers with greater than 1.1 million users in dozens of countries worldwide. This combined entity signals the arrival of a new era in software development, in which distributed teams working on modern web-based collaborative platforms have now become the norm for companies seeking to gain competitive advantage on a global basis.

SourceForge Enterprise Edition, along with CollabNet's entire product portfolio -- CollabNet Enterprise Edition, CollabNet CUBiT™, and Subversion™ -- will be fully supported and enhanced over time. SourceForge Enterprise Edition customers around the world will now benefit from CollabNet's extensive, global support infrastructure, including around the clock support, as well as accelerated innovation due to an increased research and development staff.

"The market for globally distributed software development solutions is growing rapidly as the need for interconnected applications and software development teams has now become the norm," said Bill Portelli, CEO of CollabNet. "With the addition of SourceForge Enterprise Edition business to CollabNet's product portfolio and team, we have become the standard for this new method of performing decentralized development. Unlike conventional software development systems, CollabNet's solutions are designed to promote and optimize the benefits of collaboration and distributed software development, based on open source principles. Our solutions provide two to 10 times the cost advantage and a 20 to 50 percent productivity improvement, as compared to legacy software development platforms."

"SourceForge Enterprise Edition customers and VA Software employees will substantially benefit from this combination of the two leading collaborative development teams and solutions," said Ali Jenab, CEO of VA Software. "With our equity ownership in CollabNet we demonstrate our continued belief that demand for quality collaborative software development solutions continues to grow. Going forward, our executive management team will be keenly focused on growing our core online media assets, comprised of SourceForge.net®, Slashdot.org, ITManagersJournal.com, NewsForge.com, Linux.com, freshmeat.net and ThinkGeek.com. Together, these sites attract over 32 million unique visitors a month."

CollabNet will integrate certain VA Software employees immediately into CollabNet's organization as part of its overall growth strategy.

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### Dassault Systèmes to Acquire ICEM

27 April 2007

Dassault Systèmes (DS) and ICEM, a leading provider of styling, high-quality surface modeling and rendering solutions, announced an agreement pursuant to which Dassault Systèmes would acquire ICEM, thus extending CATIA leadership to the broad and highly diversified styling communities. The proposed acquisition, for an estimated price of 51.4 million Euros, should be completed in June subject to specific closing conditions. The transaction, to be paid in cash, is expected to be non dilutive on DS non-GAAP earnings.

"Aesthetics and design quality create emotions and are key contributors to product success and brand recognition. With ICEM's unique set of technologies and expertise in this domain combined with DS's recognized leadership in 3D and PLM, customers will benefit from a new level of integrated process performance from styling concepts to final shape," says Bernard Charlès, president and CEO, Dassault Systèmes. "High quality design is an opportunity for DS's customers to innovate and differentiate themselves. CATIA's cutting edge shaping capabilities provide unique competitive advantage for our customers in all industries."

The automotive industry has spearheaded putting aesthetics at the heart of the engineering process. One of the most critical steps is the "Class A Surface" process, which creates perfect surfaces from styling sketches. ICEM is recognized as a leader in this domain. ICEM's customers are prestigious automotive OEMs (including Ford, VW, BMW, Porsche, PSA, Renault, Nissan), design companies (such as Guigiaro/ITALDesign, Pininfarina, Bertone) and consumer goods companies (such as Polaris and Electrolux).

"The transaction results from a strong partnership built upon our joint passion for design, innovation and commitment to customer excellence," says Lee Cureton, president and CEO, ICEM. Marrying ICEM's automotive and industrial design know-how with DS's PLM savoir-faire and market penetration is an exciting opportunity to expand the reach of ICEM's technologies to strategic markets, including aerospace, high-tech, luxury and consumer goods."

DS has invested massively in "Capture and Reuse" technologies allowing customers to create alternative designs and innovate at the speed of light. This generative approach, aligned with ICEM's technology,

will bring real competitive advantages to customers. The joined R&D forces will work together to create the next generation of concept styling and production surfacing solutions.

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### The MathWorks Acquires PolySpace Technologies, Leading Developer of Embedded System Code Verification Tools

25 April 2007

The [MathWorks](#) announced that it has acquired PolySpace Technologies, a software company based in Grenoble, France that provides embedded software tools for the automatic detection of run-time errors at compile time.

"For companies building high-reliability and safety-critical embedded systems, high-quality, bug-free software is essential," said Jack Little, chief executive officer of The MathWorks. "PolySpace tools detect the types of run-time errors that are responsible for 30 to 40 percent of all software errors. This acquisition enables a tighter coupling of the PolySpace automatic verification tools to Simulink®, aimed at reducing the verification bottlenecks in embedded system development workflows.  We're also fully committed to error detection in hand-written code, supporting embedded system developers who are not users of the MATLAB® and Simulink products."

PolySpace tools are currently used worldwide in aerospace, automotive, defense, transportation, consumer electronics, telecommunications, and medical devices.PolySpace products include PolySpace for Hand-Written Code, PolySpace for Model-Based Design, and PolySpace for UML.

For additional information about PolySpace products, visit [http://www.polyspace.com/](http://www.polyspace.com/).

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# CIMdata News

### CIMdata Announces the Availability of a New White Paper:  "PLM and APQP: How PLM Supports this Key Automotive Industry Initiative"

24 April 2007

[CIMdata](#) consulting and research firm announces the availability of a recently published White Paper entitled "PLM and APQP: How PLM Supports this Key Automotive Industry Initiative". This paper describes the role that PLM (Product Lifecycle Management) plays in supporting the Advanced Product Quality Planning (APQP) process framework, which is generally described as a set of procedures and techniques, used to develop products in the automotive industry. A special focus is given to how the ENOVIA MatrixOne Automotive Accelerator™ for Program Management (APQP) supports and enables this important automotive initiative.

The automotive industry is facing new challenges, explained Peter Bilello, CIMdata's Director of Consulting Services, "The days of the fully vertically-integrated supply chain are gone. Today, OEMs (Original Equipment Manufacturers) expect suppliers to define the manufacturing processes and the complete product. In many cases, OEMs are looking to their major suppliers to deliver fully-integrated and complex electromechanical systems to the vehicle production facility in sequence and just-in-time (JIT)." Mr. Bilello added that this is just one of the trends and challenges facing the automotive suppliers. "Others can be easily categorized as related to cost, quality, and time-to-market; globalization; and innovation."

Mr. Bilello said, "As automotive companies seek the most effective ways to address these challenges, and secure a competitive advantage, they need to turn their attention to PLM as a critical component of their overall enterprise information technology architecture." Through the proper implementation of PLM-enabled solution within an enterprise framework, noted Mr. Bilello, "a company can significantly enhance its ability to innovate its products as well as its manufacturing and product development business process. As such, PLM solutions like the ENOVIA MatrixOne Automotive Accelerator™ provide an excellent APQP platform."

Copies of the "PLM and APQP: How PLM Supports this Key Automotive Industry Initiative" White Paper are available at no cost through the CIMdata website.

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### Ask the Expert:  What is Your Experience with SAP IPPE as a Collaborative Tool?

April 2007

CIMdata's Director of Research, Ken Amann and Director of Consulting Services, Peter Bilello, address the question What is Your Experience with SAP IPPE as a Collaborative Tool? in Managing Automation's Ask the Expert column.

**Their Answer**:

With the introduction of SAP's integrated Product and Process Engineering (iPPE), SAP launched an enhanced approach to the way mySAP PLM manages product structures. This approach addresses the requirements of organizations that need to manage a large variety of complex product configurations. Although initially developed to meet the needs of the automotive industry, SAP has found that iPPE is of interest to mechanical and plant engineering, aerospace, electronics, and other high-tech companies as well. In addition, SAP reports that iPPE is the foundation for other applications, such as Product Designer, to manage product features and requirements structures within the early engineering phases of a product, and for its Recipe Management application.

The organization of data within the iPPE is structured in three main components:

1. The Product Variant Structure (PVS), to enable a continuous step-by-step product definition

2. The process structure, with the activities that relate to the corresponding product structure items and the corresponding factory layout structure

3. The factory layout structure, including the work stations in an assembly line

Given iPPE's capabilities and functional design as described above, it is not what CIMdata would call a collaborative tool (i.e., a product development tool that supports collaborative development internally and throughout the extended enterprise). mySAP PLM's functionality in support of collaboration in this manner generally focuses on the use of cFolders and cProjects

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# Company News

### Altair Engineering Canada Opens New Training and Support Facility in Toronto, Ontario

24 April 2007

Altair Engineering Canada, Ltd., a subsidiary of Altair Engineering, Inc., announced that it has expanded its presence in Canada by opening a new office in Toronto, Ontario. The latest development is due to growing business in the region, especially in the areas of automotive, commercial aviation, consumer products and heavy trucks. The new facility provides offices for Altair Canada employees as well as a fully-equipped training facility for customers. Robert Little, a Canadian and a 19-year Altair employee, is president of the Altair subsidiary.

The Canadian market has long been a strategic growth market for Altair. Following a 2005 move to establish a Canadian business operations and management team, software revenues have increased by nearly 30 percent, and the staff of Altair Canada has grown from two individuals to five in less than six months, with further expansion expected to continue. Today, the Altair Toronto office serves more than 40 "Canadian 500" companies and 15 universities across the country, including Boeing Canada, Bombardier Transport, General Motors of Canada, Kaiser Aluminum, General Dynamics of Canada, Multimatic Technical Centre and the Magna companies.

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and helping them to transform their organization into a seamless, collaborative virtual business ecosystem."

Details of BearingPoint's launch campaign can be found at http://www.bearingpoint.com/sapallinone. The company also expects to feature the solution and will have subject matter experts on site while attending SAPPHIRE 2007 in Atlanta this week.

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### BearingPoint Awarded SAP All-in-One Certification

25 April 2007

BearingPoint, Inc. has received SAP® All-in-One certification from SAP for its qualification to deliver the software package in the industrial machinery and components (IM&C) industry. BearingPoint is one of the first global management and technology consulting firms to receive All-in-One certification from SAP's North America Small-to-Medium Enterprise Solution Center.

"All-in-One certification validates BearingPoint's approach to the midsize industrial machinery and components market, and further solidifies our partnership with SAP," said Joe Parente, vice president of BearingPoint's Industrial Markets practice.

SAP All-in-One is an integrated ERP software package targeting the business software requirements of midsize companies in all industries and sectors. The BearingPoint® SAP All-in-One for IM&C offering is anticipated to be more affordable for middle-market buyers; have a faster time-to-value through BearingPoint's rapid implementation methodology; and lower overall operating cost vis-à-vis greater ease of management and reduced IT staff requirements. "Additionally, it is robust and meets challenges across the company's critical process and business functional areas," said Parente.

"BearingPoint's efforts in SAP All-in-One and the certifications we are acquiring, beginning in IM&C, are indicative of our SAP practice's focus on helping our clients define their technology investment strategies," said Aysin Neville, executive vice president and global leader of BearingPoint's global SAP practice. "With SAP All-in-One, we are arming them with a solution to address core Enterprise needs and helping them to transform their organization into a seamless, collaborative virtual business ecosystem."

Details of BearingPoint's launch campaign can be found at http://www.bearingpoint.com/sapallinone. The company also expects to feature the solution and will have subject matter experts on site while attending SAPPHIRE 2007 in Atlanta this week.

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### Berkeley Design Automation Lands Experienced High-Tech Executive as Vice President Applications and Services

23 April 2007

Berkeley Design Automation Inc. announced that Kelly Perey has joined the company as vice president of applications and services. An EDA veteran with deep experience in driving major programs and ramping new tools, Perey will ensure the company's worldwide technical field team keeps pace with the rapidly growing market demand.

Perey joins Berkeley Design Automation with more than 20 years of high-tech experience in companies ranging from startups to the Fortune 100. Most recently Perey was corporate vice president at Cadence Design Systems, where she led the company's innovative kits program for solutions delivery. Prior to Cadence, Perey was at Sun Microsystems for 7 years, where she led a 100+ person global organization servicing 16,000 software development partners. From 1991-1995 she held various product marketing management positions at Synopsys, including responsibility for their synthesis product line. Perey's background also includes organizational consulting, marketing consulting, and design engineering. She holds a BSEE from UC Irvine.

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### IBM and SAP Expand Partnership to Reach Midsize Companies in Europe and Asia-Pacific

23 April 2007

SAP AG and IBM announced the expansion of their partnership to serve midsize companies in a total of 12 countries through reseller agreements for SAP®

Under these agreements, IBM and SAP are also teaming up with local technology companies in Europe and Asia-Pacific to capture a larger piece of the growing market opportunity in serving midsize companies. SAP and the local IBM Business Partners will focus on capturing this opportunity to serve midsize companies by bringing innovative packaged solutions to numerous industries including wholesale distribution, life sciences, retail, industrial machinery, and construction and engineering. These comprehensive, end-to-end solutions include IBM hardware, software and services, and address customers' specific business problems with microvertical industry-specific functionality and best practices.

"This partnership allows us to combine IBM and SAP's industry expertise with our sales teams and business partners' ability to serve their local customers, with an enhanced portfolio of world-class business applications built on reliable infrastructures," said Steve Solazzo, general manager, global mid-market business, IBM. "We'll accomplish this by implementing these solutions along with an expanded network of highly qualified IBM Business Partners who have strong local presence and long-term client relationships."

Today's announcement builds on the continued success of the partnership between IBM and SAP to reach the growing mid-market customer base. SAP and IBM have leveraged their joint strengths to provide solutions to over 10,000 customers worldwide across many industries.

**Peavey Electronics Amps Up with SAP and IBM**

One of the recent successes of the U.S. agreement between IBM and SAP is a new relationship serving Peavey Electronics, a leading global supplier of musical instruments and professional sound equipment. VSS, an IBM Business Partner located in Mississippi, brought together a collaborative team of experts to

develop a comprehensive, industry-specific business management solution for Peavey Electronics. With the help of VSS, SAP and IBM, Peavey Electronics will implement the SAP All-in-One solution with IBM's DB2 database and IBM Lotus Notes running on IBM hardware and software including IBM's System p, AIX and BladeCenter. In addition, IBM Global Services and VSS will provide consulting expertise to help implement the integrated solution.

Using the new system, Peavey Electronics will streamline its global operations by linking the company with its partners, suppliers and customers in 136 countries in real-time, and will enhance the automation of their business processes. Based on SAP Best Practices, the solution will help Peavey Electronics to manage microvertical industry processes specific to electronics companies in the consumer products industry.

**Partners Deliver World-Class Technology with Local Touch**

Both SAP and IBM work with channel partners to create new customer opportunities and deliver services capabilities to customers in the midmarket. IBM Business Partners may also be eligible to earn a fee for referring opportunities for industry solutions to SAP and its other SAP All-in-One partners, allowing them to drive incremental revenue based on their role in the sales cycle.

SAP All-in-One vertical solutions incorporate industry best practices developed by SAP and its partners, such as IBM, and gained from more than 30 years of experience in serving businesses of all sizes. This best practices approach enables SAP and IBM to deliver superior functionality in affordable and easy-to-implement packages tailored to the specific business processes of vertical industries. Customers can benefit from expertise built into the software that lets them manage core processes such as project order management in wholesale distribution, direct store delivery in food and beverage, and regulatory reporting in life sciences. This built-in expertise facilitates implementation and "time to value," and allows customers to focus resources on the unique attributes of their businesses that can help them gain competitive advantage in the marketplace.

SAP and its partners offer a growing portfolio of nearly 650 SAP All-in-One solutions from a network of approximately 1,000 partners worldwide. More than 9,870 midsize companies worldwide run their businesses with SAP All-in-One solutions, members of an ever-increasing customer base that grew by more than 28 percent in 2005.

"Together, SAP, IBM and our reseller partners present customers with an unparalleled combination of technology, in-depth microvertical industry expertise and solutions designed and delivered specifically to meet the resource requirements of midsize companies," said Hans-Peter Klaey, corporate officer and member of the Executive Council and president, SME, SAP AG. "We are building our partnership with IBM in key markets to meet the increasing demand among midsize companies for solutions offering best-practice business management and rapid, predictable deployment."

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### *MSC.Software Appoints Toru Kawaguchi as President of MSC.Software Ltd*

23 April 2007

MSC.Software announced the appointment of Toru Kawaguchi as president of their wholly owned Japanese subsidiary, MSC.Software Ltd. In this role Mr. Kawaguchi will have responsibility for complete field operations in Japan, the most important market in the company's Asia Pacific operations.

Mr. Kawaguchi joins MSC.Software with 28 years of sales, marketing and management experience in the CAD/CAM/CAE, PLM, and enterprise software industries.

Previously Mr. Kawaguchi held the positions of president and representative director of think3 KK; executive director, manufacturing solution department of Autodesk KK; and, director, I-DEAS Sales and Marketing Department of Structural Dynamics Research Corporation (SDRC) KK. Before SDRC, Mr. Kawaguchi was manager, mainframe computer sales department, manufacturing industry division of IBM Japan, Ltd.

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### *MSC.Software Corporation Wins IBM PartnerWorld Beacon Award for Global Solutions - Best Industry Solution*

23 April 2007

MSC.Software has been named winner of the "Global Solutions - Best Industry Solution" award in the annual IBM PartnerWorld Beacon Awards competition.

SimManager Enterprise is an enterprise-level software product that is designed to allow global businesses to greatly speed design and development while providing the functionality that allows organizations to efficiently create, manage and re-use simulation data. SimManager allows companies to control, share and extend engineering data and the processes related to their products both internally and externally into the supply chain.

SimManager Enterprise revolutionizes the way engineering teams can access and work with data, sharing simulation information across the extended enterprise. With SimEnterprise, product development stakeholders, regardless of application preference or global location can easily collaborate and manage simulation and simulation-based design information to accelerate product development in a highly cost-efficient manner.

Judges remarked that MSC.Software's SimManager, "Is a very strong entry now and has great future potential within the global marketplace. MSC.Software combined an innovative product with a broad use of IBM hardware, software components, and services, along with an excellent customer value proposition and the potential for up to a 75% engineering productivity gain."

"Recognized by the Beacon Awards, MSC.Software has worked closely with IBM and its Business Partners to provide clients with innovative solutions that solve real business issues," said Ravi Marwaha, general manager, IBM Global Business Partners. MSC.Software has set the standard for business excellence by delivering unique solutions as well as high customer satisfaction."

"We are so pleased that IBM has recognized the financial and productivity gains that manufacturers can enjoy through SimManager," said Bill Weyand, chief executive officer, MSC.Software. "As manufacturers face increasing time to market and right to market pressures, SimManager provides these businesses with the ability to address true multidiscipline problems with reliable performance predictions that reduce the need for physical prototypes and provide more accurate and complete results."

For more information about the IBM PartnerWorld Beacon Awards please visit http://www-1.ibm.com/partnerworld/pwhome.nsf/weblook/pw2007_awards.html.

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### SAP Expands Industry Collaboration Communities to Include Aerospace and Defense, Automotive and Travel and Transportation Industries

23 April 2007

Further delivering on the commitment to promote ecosystem-based innovation and collaboration, SAP AG announced the launch of industry value networks (IVN) for the aerospace and defense, automotive and travel and transportation industries. These IVNs will begin the process of gathering together customers, partners and systems integrators to identify and prioritize business challenges facing each industry. Within the individual IVNs the groups will collaborate to design and improve industry-relevant business processes and technology solutions. The announcement was made at SAPPHIRE® '07, SAP's international customer conference, being held in Atlanta, Georgia, April 22 – 25.

"We are proud to add three more industries to the existing family of IVNs," said Zia Yusuf, executive vice president, Global Ecosystem and Partner Group, SAP. "In the past 18 months our IVNs have delivered numerous successes to the industry marketplace including new composite solutions and business processes that have delivered quick value to our customers. SAP's industry expertise, combined with the strength of our ecosystem, has resulted in a remarkable success in focusing on solving critical business issues for our customers."

Aerospace and defense, automotive and travel and transportation join a growing list of industries benefiting from SAP's IVN strategy including banking, chemicals, consumer products, high tech, retail, oil and gas, public sector and forest and paper industries. Following the initial IVN stage of selecting customers, partners and systems integrators to participate, the IVN members will identify priority topics in their respective industry to focus with a goal of designing pre-integrated, standard, end-to-end solutions and services based on a common technology platform, SAP NetWeaver.

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### UGS Announces Full Support for Teamcenter on HP Integrity Servers

24 April 2007

UGS Corp. announced that Teamcenter®, the company's comprehensive portfolio of PLM software, is now available on HP Integrity servers. The combination of UGS' software with HP Integrity servers offers a state-of-the-art PLM solution for new customers. It also offers an alternate path for HP PA-RISC server customers migrating their existing PLM or product data management (PDM) system to 64-bit Intel® Itanium® 2-based HP Integrity servers.

"The constant and accelerating evolution of the global business environment requires companies to continually ensure they are leveraging PLM technology for optimal value," said Chris Kelley, vice president of Partners & Platforms, UGS. "By working closely with world-class partners like HP, UGS is demonstrating its commitment to supporting all of its software offerings in the environments most companies desire and facilitate a seamless transition of existing PLM and PDM systems to those environments."

In order to support this transition for users of Teamcenter and other PLM/PDM systems, UGS completely ported and thoroughly tested Teamcenter on HP Integrity servers to ensure its customers would experience the same high level of quality to which they have become accustomed.

"A clear management path is the cornerstone of any high-performance computing PLM solution," said Winston Prather, vice president & general manager, High Performance Technical Computing, HP. "UGS' support for Teamcenter on HP Integrity servers provides customers with a tested solution to achieve a better return on their IT investments while ensuring the high availability and simplified management the platform is known for."

"For UGS customers looking for a flexible, standards-based alternative to their RISC architectures running mission critical databases, the solution is the combination of HP Integrity servers running Intel Itanium® 2 processors," said Diane Bryant, Intel Vice President, Digital Enterprise Group. "This combination provides unprecedented flexibility, performance and choice of operating system including HP-UX and Microsoft Windows Server 2003."

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### UGS Launches UGS Innovation Connection in Second Life; Becomes the First Pure-play PLM Company to Establish Presence in Mainstream Online Virtual World

23 April 2007

UGS Corp. announced the launch of its UGS Innovation Connection within Second Life®, a 3-D virtual world entirely built by its residents. With today's launch, UGS becomes the first pure-play PLM company to establish a presence in the mainstream online virtual world.

Since opening to the public in 2003, Second Life has grown explosively and today is inhabited by more than four million people around the globe. UGS will use various locations throughout UGS Innovation Connection to collaborate with customers and partners, host virtual conferences and provide a more immersive way to experience its solutions just as they are used every day by customers around the world. Customers and partners showcased in UGS Innovation Connection within Second Life:

**Hendrick Motorsports (HMS)** - the only NASCAR® racing organization to win a Cup Series championship for four straight years. HMS, which has been to Victory Lane more than 150 times, builds 750 engines a year and uses NX® software and Teamcenter® software to optimize engine configurations and drill into vehicle data to find information immediately, whether in the office or on the track. HMS' presence within UGS Innovation Connection will reflect the partnership between UGS and the winning race team and will include Hendrick's #48 winning car.

**JCB and the JCB DIESELMAX** – a car that, in 2006, achieved a stunning average speed of 350.092 mph (563 kph) to break the land speed record for diesel-powered cars. The new record was achieved using UGS' NX software to design and develop the groundbreaking JCB444-LSR diesel engine. The winning car used two turbo-charged, high performance versions of the JCB444 engine, underscoring its strength, performance and versatility that was originally created for use in JCB's construction vehicles. The company's presence in UGS Innovation Connection within Second Life will exhibit the record-breaking vehicle as well as the diesel engine.

**The Alloy** – a UGS customer and one of the UK's leading product design consultancies, delivering design and innovation services to companies worldwide. The Alloy is featured within the customer showcase area where residents are able to view Alloy's Concept Mobile Phone - Polygon - in 3D and learn how UGS® solutions make the design work possible.

"Our launch in Second Life is just one example of how UGS continues to push into uncharted areas and experiment with ways to better deliver on our vision of Global Innovation Networks," said Dave Shirk, executive vice president, Global Marketing, UGS. "With the natural focus we have on 3D content creation and collaboration, the large number of our customers establishing Second Life presence, it was only logical that we would take a dive into Second Life. We look forward to interacting with innovators everywhere who are interested in developing new ways of bringing innovative products to market."

Moving forward, UGS will host product launch presentations in the Second Life Auditorium. In 2007, UGS plans to launch updates for its NX, Tecnomatix™ and Teamcenter product portfolios.

To reach UGS Innovation Connection on Second Life, visit http://www.ugs.com/secondLife.

**Second Life and Linden Lab**

Second Life is a 3D online world with a rapidly growing population from more than 100 countries around the globe, in which the Residents themselves create and build the world which includes homes, vehicles, nightclubs, stores, landscapes, clothing, and games.

The Second Life Grid is a sophisticated development platform created by Linden Lab, a company founded in 1999 by Philip Rosedale, to create a revolutionary new form of shared 3D experience. The former CTO of RealNetworks, Rosedale pioneered the development of many of today's streaming media technologies, including RealVideo. In April 2003, noted software pioneer Mitch Kapor, founder of Lotus Development Corporation, was named Chairman. In 2006, Philip Rosedale and Linden Lab received WIRED's Rave Award for Innovation in Business. Based in San Francisco, Linden Lab employs a senior team bringing together deep expertise in physics, 3D graphics and networking.

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### UGS Names BCT Technology AG its 2007 Software Partner of the Year

24 April 2007

UGS Corp. announced it has named BCT Technology AG the winner of its 2007 UGS Software Partner of the Year award. BCT was selected as the first-ever recipient of this annual award due to the positive impact the company and its products have had on the UGS Partner Program and the PLM industry. The inaugural award was presented today during the UGS Connection Americas 2007 Users Conference at the Long Beach Convention Center in Long Beach, Calif.

"In the three years since it was redesigned and re-launched, the global UGS Partner Program has experienced tremendous growth and been responsible for contributing millions of dollars in revenue for our partners and UGS," said Chris Kelley, vice president of Partner and Platform Marketing, UGS. "Our overwhelming success in growing business value for UGS and our partners was the driving force behind establishing an annual award to recognize one company that best exemplifies the qualities we look for in a partner. We are proud to recognize BCT Technology as UGS' first Software Partner of the Year for consistently helping UGS deliver high quality PLM solutions for our customers."

BCT develops and implements software solutions for the optimization and standardization of products and processes over the entire product lifecycle. BCT's software and services are built on the broad and deep product offerings of UGS. BCT products that integrate with UGS technology include BCT Inspector, BCT aClass, BCEngineering Package and BCT Easy Plot.

For more information, please visit http://www.ugs.com/partners.

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# Events News

### ASCON Reports the Results Of Exhibiting at Hannover Messe:  KOMPAS-3D Solution for MCAD has Gained a Great Respect Among Fair Visitors

24 April 2007

ASCON Group has presented KOMPAS-3D solution for CAD at one of the leading international industrial fairs - Hannover Messe that took place in Germany on 16-20 April 2007.

ASCON stand was placed at Digital Factory pavilion, totally devoted to automatisation and software solutions for industrial enterprises. Messe organizers reported that the fair was visited by over 230.000 people, that is 10% more then in previous year. ASCON stand also has a high attendance, there were industrial enterprises specialists, IT experts, design and construction chiefs, journalists. Many visitors came not only from Germany and Western European Countries, but also from South-East Asia, India, Australia, Japan, Eastern Europe and Russia.

«Our participation at Hannover Messe once again confirmed the relevance of reasonably priced, professional CAD software at European market. KOMPAS-3D solution, presented at the Fair, gained a lots of favourable reports from ASCON stand guests – engineers, constructors, designers, CAD/CAM specialists and experts – and especially for its good price – powerful functional benefits», - says Maxim Bogdanov, Marketing Director of ASCON - «As result of the fair we expect further extending our VARs and partners network, as well as increasing a customer base».

During Hannover Messe ASCON team presented the software solutions for Mechanical CAD: KOMPAS-3D V8 Plus and its add-ons for Animation, Photo rendering, Analysis of Kinematic ad Dynamic, 3D-Model Recognition, BOM Wizard and others. The Messe visitors were the first to familiarize with German interface of the basic CAD solution from ASCON – KOMPAS-3D. Many of those ASCON stand guests, who get familiarized with KOMPAS-3D at Hannover Messe, started to create 3D models in this software at once, due to software intuitive, easy-to-learn and interface. ASCON specialists hold dozens of live demonstrations of the software and offered ASCON stand visitors very attractive price offer, that will be available also during the month after the fair.

For additional information please visit http://www.ascon.ru/english/ and contact them at +7 (812) 703 3933 or by email contact@ascon.ru.

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### Cadence Announces 2007 Worldwide CDNLive! User Conferences To Launch In Europe

24 April 2007

Cadence Design Systems, Inc. announced that the first of seven worldwide CDNLive! User Conferences will be held at the ArabellaSheraton Grand Hotel on May 14-16, 2007. Along with keynote presentations by Mike Fister, president and CEO of Cadence, and René Penning de Vries, senior vice president and chief technology officer for NXP Semiconductors, the second annual CDNLive! EMEA (Europe, Middle East and Africa) User Conference features a variety of opportunities for design engineering experts to strengthen business relationships, share techniques and best practices, and discover holistic solutions to emerging design challenges. The theme of this year's conference is 'Connect', which emphasizes the networking and information-sharing value of the annual event.

"The goal of the Cadence Designer Network and CDNLive! is to deliver a compelling conference program, rich in technical content which provides the opportunity for customers to connect and share personal experiences and expertise with peers and Cadence developers," said Sean Redmond, vice

president for EMEA at Cadence. "It is a great place for our technology users to learn new approaches and to develop innovative strategies and tactics to meet their individual design challenges."

More than 3,400 Cadence users are expected to participate in the CDNLive! User Conferences worldwide this year, an increase of 15 percent over last year. The lineup of CDNLive! User Conferences throughout 2007 also includes events in Shanghai (July), Tokyo (July 12-13), San Jose (Sept.10-12), Bangalore (Oct. 11-12), Tel Aviv (Nov. 5) and Hsin-Chu, Taiwan (Nov. 13).

At CDNLive! users learn about the latest insights on complex electronic design automation issues, solutions to address the anticipated IC design challenges of tomorrow as well as practical techniques and tips from other users, power users, domain experts and Cadence technologists to further their design skills.

The CDNLive! User Conferences may include presentations on product roadmaps and strategies from leaders in the worldwide electronics industry. Attendees will also have plenty of opportunity for interactive dialog with the Cadence experts who develop the breakthrough solutions designers rely on. Or, they can attend the many original presentations of user-authored technical papers on state-of-the-art semiconductor design techniques and best practices. Other highlights of the events include a rich array of interactive 'techtorials' for all areas of analog and digital design, implementation and verification, packaging and board design, as well as multiple panels and forums. At some locations, a Designer Expo featuring exhibits from more than 20 companies that engage in joint development projects with Cadence, will be held in parallel with the conference's technical events.

Hundreds of user-authored papers have been submitted for review and presentation at CDNLive! User Conferences in 2007. More than 60 technical papers have been selected for presentation at the CDNLive! EMEA User Conference alone. Closing dates for the Call for Papers vary by location; see http://www.cadence.com/ for more information. To register for the Munich conference and to get additional information on the event, including the complete schedule, please visit http://www.cadence.com/cdnlive/eu/

### Cimatron to Demonstrate New CAD/CAM Solutions for Tooling and Manufacturing at EASTEC 2007

27 April 2007

Visitors to the EASTEC 2007 show will have the opportunity to view hands-on demonstrations of the newly released CimatronE Version 8 at Cimatron's booth #5536. The new release is rich with advanced capabilities that help toolmakers and manufacturers of complex discrete parts improve productivity and deliver higher quality products quicker and at lower cost.

CimatronE Version 8 introduces hundreds of enhancements as well as significant new capabilities, including:

A new application for progressive die design

Automated drilling capabilities

NC-Preview functionality

Concurrent mold design and the ability to handle mega-size molds

Enhanced 5-Axis Production application

The EASTEC show is the East Coast's largest annual manufacturing event. EASTEC 2007 is taking place May 22 - May 24 in Springfield, MA. Attendance is free, and a link to the registration is available on the Events page at the Cimatron Technologies website, http://www.cimatrontech.com/.

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### *DTC Show's Marker Making Competition Challenges Contestants to Achieve Maximum Material Utilization with Gerber Software*

24 April 2007

At the recent 8th China (Dongguan) Int'l Textiles & Clothing (DTC) Industry Fair, the newly introduced "Marker Making Competition" was a popular event for attendees as skilled marker makers competed to achieve the best possible material utilization. Gerber Technology provided all software and technical support for the competition.

The China (Dongguan) Int'l Textiles & Clothing Industry Fair has been held for several years with wide influence. The apparel industry is well developed in Dongguan and technical personnel there are experienced which has contributed to the continued development of the apparel industry. This competition provided them with the opportunity to demonstrate their craftsmanship.

The Marker Making Competition consisted of five preliminary trials with the top three competitors in each preliminary match qualifying for the final which determined first, second and third place winners. The competition required operators to use Gerber's AccuMark marker making function to finish a specific marker making task in a set time period (preliminary: 10 minutes/round; final: 15 minutes/round). After three days of exciting competition, Mr. Zhong Dongbing, from Verde Garments (DongGuan) Co., Ltd was named the champion, with Zhou Liping winning second place, and Mr. Lu Hanjiang from Xi Tai Long Deli Garments Co., Ltd. in third place.

For apparel manufacturers, material utilization affects cost, and marker making plays a key role in material utilization. Technical skills and experience are required in marker making and when combined with a convenient tool in marker making, efficiency and material utilization may be improved.

Gerber's AccuMark system is familiar to many CAD software users. Many competitors are proficient in it because they use AccuMark daily, giving them an advantage in the competition. "I am pleased that every competitor could finish the marker making task in just 10 minutes with ideal material utilization. This result reflects their skill and efforts at work." said Tina, an application engineer from Gerber Technology who provided technical support.

In addition to AccuMark, Gerber also provided its AccuNest software, the company's new high-performance automatic marker software. Comparing the efficiency of AccuNest to that of the fastest mark-maker at the competition, AccuNest achieved better results. AccuNest is a solution that achieves material savings at the level of a human marker maker while far exceeding the speed at which a person can nest the marker.

### 44th Design Automation Conference to Feature Two Workshops Addressing Low Power

24 April 2007

The 44th Design Automation Conference (DAC), to be held at the San Diego Convention Center, San Diego, Calif., June 4 - 8, 2007, will offer two workshops on low power design on Sunday, June 3. The Low Power Coalition (LPC) Workshop – Standards for Low Power Design Intent, to be held Sunday from 12:30 - 3:30 p.m., will present the benefits of using the Common Power Format (CPF) specification to capture and communicate low power constraints throughout the IC design flow. This workshop also will cover some of the recent activity and planned roadmap of the LPC. Later that day, from 4:00 - 7:00 p.m., the Design and Verification of Low Power ICs workshop will be held, providing information for engineers and tool developers on the Unified Power Format (UPF), including its purpose, technical constructs and usage. Leading EDA suppliers also will illustrate UPF interoperability in a multi-vendor flow.

**Workshop Agenda: Low Power Coalition Workshop – Standards for Low Power Design Intent**

Sunday, June 3, 2007, 12:30 - 3:30 p.m. / Room: 6D

I.   Introduction to the Low Power Coalition: Gill Watt - Chairman of the LPC, AMD, Boston, MA

II.   Overview of CPF: Qi Wang - Cadence Design Systems, Inc., San Jose, CA

III.   Convergence Activities with other Power-Aware Formats: Gary Delp - LSI Logic Corp., Rochester, MN

IV.   Library Considerations for Low Power: Rob Aitken - ARM Ltd, Sunnyvale, CA

V.   End-user Experiences: Herve Menager - NXP, San Jose, CA

VI.   EDA Tool Developers for Low Power: Dave Allen - Atrenta, San Jose, CA; Devadas Varma, Calypto Design Systems, Inc., Santa Clara, CA and Tom Miller - Sequence Design, Inc., Santa Clara, CA

VII.   Panel Discussion (all presenters)

**Workshop Agenda: Design and Verification of Low Power ICs**

Sunday, June 3, 2007, 4:00 - 7:00 p.m. / Room: 6E

I.   Introduction: Yatin Trivedi - Director, Industry Partnership Program, Magma Design Automation, Inc., San Jose, CA

II.   Customer Perspective: David Peterman - Manager, Wireless Terminals Business Unit EDA, Texas Instruments Inc., Dallas, TX

III.   Brief History of Low Power Standards: Shrenik Mehta - Accellera Chair; Senior Director, Frontend Technologies & OpenSPARC Program, Sun Microsystems, Inc., Sunnyvale, CA; Edward Rashba - Director, New Business Ventures, IEEE Standards Association, Piscataway, NJ

IV.   Technical Content of Low Power Standard: Stephen Bailey - Product Marketing Manager, Verification, Mentor Graphics Corp., Wilsonville, OR and Gary Delp - Distinguished Engineer, LSI Logic Corp., Rochester, MN

V.   Low Power Solution Flow for Design and Verification: Mike Keating, Synopsys Fellow, Synopsys, Inc., Mountain View, CA; Juergen Karmann - Senior Staff Engineer Design Methodology, Automotive, Industrial & Multimarket, Infineon Technologies AG, Munich, Germany

VI.   Interoperability in Action: A Multi-Vendor Collaborative Solution

VII.   Roundtable and Wrap-up

**Registration**

Workshop registration is available online now in the registration section of the DAC Web site at http://www.dac.com/. The registration fee for each workshop is $75 for ACM and IEEE members, $100 per person for non-members. Workshop registration is not included in DAC conference registration, nor is conference registration required to attend any of the workshops.

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### INCAT® Experts to Present at COE 2007 Annual PLM Conference

27 April 2007

INCAT will showcase its expertise and industry knowledge at the COE 2007 Annual PLM Conference and TechniFair, April 29-May2, in Las Vegas, Nev. INCAT will present speakers throughout the run of the conference and will offer one-on-one information to conference attendees at its booth on the exhibition floor.

Featured INCAT speakers are:

- Steve Cochrane – "Usage of Legacy CATIA V4 Models in CATIA V5" – Monday, April 30, 1 p.m.
- Lewis Breeding – "QFDD (Quick Feature Development & Deployment)" – Monday, April 30, 3:30 p.m.
- Maryann Cooney – "Managing Your Organization in a Multi-CAD, Multi-PDM Environment" – Tuesday, May 1, 3:50 p.m.
- Kevin Power – "Global Supply Chain Integration – The Challenge to PLM systems" – Tuesday, May 1, 4:50 p.m.
- Scott Pokriefka – "Practical Applications of 3D XML" – Wednesday, May 2, 11 a.m.
- Jim Kelly – "Early Bill of Materials – Advantages and Challenges" – Wednesday, May 2, 1:40 p.m.
- Steve Cochrane – "Class A Surfacing Scenarios" – Wednesday, May 2, 1:40 p.m.

In addition to these insightful presentations, conference attendees will have the opportunity to learn how INCAT provides strategic management consulting services, PLM and Enterprise IT services, and engineering services outsourcing – all customized to support the business goals and objectives of its client organizations. Visitors to the INCAT booth will have the chance to win an Apple® iPod and tickets for a performance by Blue Man Group. INCAT partners Tata Technologies iKS, a global leader in engineering knowledge transformation technology; IC:IDO, specializing in virtual reality engineering; and FARO Technologies Inc., maker of the FaroArm for portable measurement and reverse engineering, will join INCAT on the exhibit floor.

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### Learn about ISO 15926 at BE Conference

April 2007

At BE Conference Los Angeles here is your chance to learn more about the ISO 15926 process industry data in a with a workshop comprising three session on Sunday 29th April from 1pm.

Robin Benjamins of Bechtel will explain how ISO 15926 is helping the integration, exchange, and hand-over of information between all parties involved in the process industries during the entire lifecycle of a plant to achieve a 30% productivity improvement in engineering, construction, supply-chain, operations, and maintenance (course code - P1BP101).

Based on the ISO 15926 standard, the Bentley Class Editor and the single information model solution is fast becoming the leading standard for systems interoperability to support the transfer of models and management of information in those models. Join a lively session to find out how to leverage this with current investments in your IT infrastructure and Plant Design systems (course code - P1BP102).

Find out how information from disparate systems can be effectively delivered, shared or reused with a session that will showcase various Bentley data exchange solutions with current design tools and the use of ProjectWise Navigator XM as a common collaboration tool for reviewing and managing the ISO 15926 neutral data (course code - P1BP103).

And after these sessions join Bentley for the Plant networking reception at 4.30pm in Petree Hall C of LACC.

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### Proficiency's CEO to Speak at SME Interoperability and 3D Collaboration Conference; Alex Shapira to Address the Challenges of Doing Business Globally While Protecting Intellectual Property

24 April 2007

Proficiency, Inc. announced that its CEO, Alex Shapira, will present during the Society of Manufacturing Engineers (SME) Interoperability and 3D Collaboration conference, being held at the Marriott Renaissance in Detroit, May 1-3. Mr. Shapira's presentation will take place at 11:45 a.m., Thursday, May 3 in the Mackinac East Room.

Mr. Shapira will address the Intellectual Property (IP) Paradox: How to Enable Global Business without Jeopardizing IP. The presentation will be part of the Collaboration Management Track, moderated by David Prawel, president and principal consultant of Longview Advisors. It includes three distinguished speakers on May 3, from 9:00 – 11:45 a.m. During his presentation, Mr. Shapira will discuss the need of global businesses for more frequent and more detailed product communications as their product design partners continue to grow. He also will discuss the top business directives of protecting design knowledge and securing competitive advantage.

Based on 20 years of experience in digital manufacturing, CAD/CAM, real-time production management and mission-critical defense systems, Mr. Shapira brings executive management and leadership to Proficiency. Before joining the company, Shapira was vice president of production management at UGS and executive vice president for product operations at Tecnomatix.

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### Theorem Showcases Latest Products at COE2007 Annual PLM Conference

25 April 2007

Theorem Solutions will be showcasing two new products for the CATIA community on booth 418 at the COE 2007 Annual PLM Conference and Technifair in Las Vegas.

Theorem's recently-launched 'Multi-CAD' module and Theorem Process Manager (TPM) will form the centrepiece of the company's presentation at the event, which takes place between 30th April and 2nd May and brings together users of Dassault Systèmes software throughout the aerospace, automotive, defence, consumer goods, shipbuilding, industrial machinery, electronic and plant design industries.

Theorem's new 'Multi-CAD' module enables data in a variety of formats to be imported directly into users' current CATIA V5 sessions.

Streamlining the sharing and use of non-CATIA data within design, manufacturing, design-in-context and visualisation environments, the new module replicates the ability of CATIA's 'insert existing component' command to bring CATParts and CATproducts into the current CATIA V5 space and work with them.

Using Theorem's new 'Multi-CAD' module, CATIA V5 users can simply 'insert' UGNX, I-DEAS and Pro/E parts or assemblies into the current workspace without the need to undertake an external CAD translation. The process is simply a 'menu pick', followed by the selection of the required part or assembly from a normal file system 'tree'.

Items inserted into CATIA V5 in this way maintain links to the original data, ensuring that any subsequent modifications to the imported part or assembly will be automatically updated in the CATIA V5 session.

Theorem's innovative TPM (Theorem Process Manager) application enables users to save time and money through the automation, control and management of their computing processes.

The new software is not only applicable to customers in Theorem's traditional design and manufacturing market, but also provides major benefits to IT and data processing users across a wide range of industry sectors.

TPM enables complex batch operations to be initiated by a simple 'drag and drop' action that can execute programs, evaluate results and both collect or distribute files. It is ideal for running and scheduling a range of processes and can be easily configured to apply pre-determined actions based on the outcome of each program. As a result, the new application provides a highly efficient method of scheduling jobs, automatically redirecting work and resubmitting work that falls below specified quality levels – as well as automatically informing others of progress, applying company standards and keeping every detail in an audit trail for summary reports or in-depth examination.

Also on show at COE 2007 will be Theorem's new Universal CATIA translators for UGNX and JT users, which both streamline and simplify data translation and collaborative working under 'real world' conditions – by automatically differentiating between CATIA V5 and V4 data files and converting them to the required UGNX or JT format in a single operation.

UGNX and JT are widely employed alongside CATIA in many long term design projects and it is not unusual for design and manufacturing organisations to use both CATIA V4 and CATIA V5 on production work. The exporting of CATIA data is complicated by the fact that CATIA V5 assemblies can incorporate embedded CATIA V4 files; something that may not become apparent until there is a need to undertake data translation.

Providing a complete solution, Theorem's Universal CATIA to UGNX and CATIA to JT CADverters eliminate the need for users to determine which version of CATIA the target data is supplied in. They not only identify and convert mixed native CATIA V5 and V4 files automatically, but also recognise and translate CATIA V5 assemblies that include embedded V4 data – all without operator input.

Because most single version translators are unable to accommodate such shared format assemblies, Theorem's new Universal CATIA CADverters more than exceed the capabilities of separate products – as even a combination of stand-alone V4 and V5 translators will fail to meet all user requirements.

Other Theorem products on show at the Las Vegas event include the company's range of CATIA to JT and ProductView converters and its Data eXchange Navigator (DXN), which provide enhanced communications and interoperability between CAD systems.

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### UGS Connection Americas PLM Conference Sets Record Attendance

24 April 2007

UGS Corp. and PLM World, Inc., the UGS user community, announced record attendance for the UGS Connection Americas conference, with more than 2,200 participants from 25 countries.

The annual user group conference for UGS® technology users is the longest running PLM industry conference, supporting one of the largest user communities. The conference is for users of UGS software, including NX®, Teamcenter®, Tecnomatix™ and Solid Edge® software.

"UGS Connection is the PLM industry's premiere event that not only captures both size and diversity of companies, but enables them to share their best practices and network with other industry leading companies that use UGS technology," says Dave Shook, senior vice president and managing director, Americas, UGS. "Attendance grew with a record number of attendees from small to mid-size manufacturers through enterprise companies. We are pleased to see so many come together to discuss our innovation and best practices with our products."

UGS Connection 2007 featured nearly 600 educational sessions, including keynote presentations, technical sessions, product updates and hands-on-training sessions. In addition, this conference marked a new "Management Connection" set of presentations for mid- and senior-level managers as well as a new "Developer Connection" for developers and partners who work with UGS technology.

"We have an exciting week of content for our attendees that began today with keynote presentations from Fred Bellio, Director of Global Product Development, Processes and Systems at Mercury Marine, and Leon McGinnis from GeorgiaTech, internationally known for his leadership in the material handling research community," said John Manderfield, chairman, PLM World, Inc. "We thank our speakers, partners and UGS for the outstanding support of this event."

For more information, visit http://www.ugs.com/ugsconnection.

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### Unified Power Format, Open Analog Standards and Liberty Library Enhancements to Be Featured at 19th EDA Interoperability Forum

23 April 2007

Synopsys, Inc. announced that its 19th electronic design automation (EDA) Interoperability Developers' Forum will be held on Thursday, April 26th in Santa Clara, Calif. It will feature discussions about open analog standards, the Unified Power Format (UPF) and Liberty™ library advancements. The Forum provides an open environment for EDA tool developers, IC design engineers and IP providers to discuss the critical topic of interoperability. Anyone who wants to attend is welcome.

The Forum's keynote address, titled, "Making Multicore Work and Measuring its Benefits," will be delivered by Markus Levy, president of the Embedded Microprocessor Benchmark Consortium (EEMBC) and the Multicore Association.

"Multicore technology offers immense opportunities for many facets of the embedded and high-performance computing industry," said Mr. Levy. "To realize multicore technology's potential for increased performance and reduced power consumption, significant design challenges related to power and inter-core communication must be addressed. I welcome the opportunity to present the latest news on multicore technology at this event."

The Forum will begin with the session, "The Power of One." Leading EDA vendors are using the industry-standard Unified Power Format (UPF) to enable fully interoperable low-power tool flows. This session will bring the audience up to speed on UPF's technical capabilities through a technical tutorial and panel discussion.

The general session will feature important new modeling innovations approved by the Liberty Technical Advisory Board (TAB) in December 2006, as well as insights into what is coming. Synopsys' R&D team will outline important new Library Compiler™ capabilities that help library developers and characterization tool suppliers ensure high-quality Composite Current Source (CCS) models by performing automated validation and closed-loop correlation checking. These new capabilities give users unsurpassed flexibility in delivering verified libraries at scaled voltage or temperature corners for tool flows from multiple vendors.

The Forum will culminate in a session focused on open, interoperable solutions for analog design. The need to improve analog design productivity and quality through the use of constraint-based analog EDA tools is driving the need for standardized constraints-sharing. The first half of the session will present the benefits and challenges of establishing an open constraint standard. The second half will consist of a panel discussion featuring the founding members and supporting companies of the recently announced Interoperable PCell Libraries (IPL) project.

"As the benefits of OpenAccess are starting to come to fruition in the design community, now is the time to focus on the next steps," said Jim Solomon, member of the board of directors at Ciranova. "Tool interoperability for analog design can be enabled by establishing standards in areas such as open analog constraints, open scripting language, and open Process Design Kits including Pcells. This Forum has become an invaluable venue for education, discussion and leadership centered on analog openness." Mr. Solomon is also on the boards of Silicon Navigator, Gemini Design Technology, Applied Wave Research, Nascentric, and Pyxis Technologies.

"Industry standards for low power and analog design continue to be pressing priorities for the design community," said Rich Goldman, vice president of Strategic Market Development at Synopsys. "This Forum demonstrates Synopsys' continued commitment to interoperability in our industry. All are invited to attend this collaborative event and participate in the discussion and exchange of information."

**About the EDA Interoperability Developers' Forum**

This Forum provides EDA vendors and their customers an opportunity to exchange information and ideas on EDA tool interoperability including new interface technologies, future enhancements, upcoming news and successes. For more information and to register, visit

http://synopsys.com/news/events/devforums/2007/apr/index.html.

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# Financial News

***Apache Design Solutions Starts Off Strong in 2007 with Record Sales; New Products Contribute to 30% of Total Sales***

24 April 2007

Apache Design Solutions announced that the company has achieved its 17th consecutive quarter of record bookings and revenue, while maintaining profitability. Over 30% of Apache's Q1 bookings came from new products including PsiWinder for full-chip clock jitter analysis and other unannounced products, while RedHawk adoption continues to grow as the power signoff solution of choice by leading semiconductor companies.

"Q1 is a seasonally weak quarter for EDA business. But Apache has achieved another record quarter with significant bookings," stated Craig Shirley, vice president of worldwide sales at Apache. "This achievement validates the strength of our world-class R&D and support team to deliver the only complete silicon integrity platform solution for SoC, analog-IPs, and Systems."

"Over the past year, many leading semiconductor companies have mandated power as a signoff requirement for designs at 90nm and below. This mandate was driven by the increasing chip failures identified as power- and noise-related issues, even after passing traditional timing signoff," stated Andrew Yang, CEO of Apache. "Apache will continue to expand our silicon integrity platform solutions by working closely with our leading customers and foundry partners, and ensuring timely delivery of new products in 2007."

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### Autodesk Extends Invitation to Join Webcast of Annual Investor Day

23 April 2007

Autodesk Inc. announced that it will broadcast a webcast in conjunction with its upcoming Investor Day on Thursday, April 26, 2007.

**WHAT**:     A webcast of Autodesk, Inc. Investor Day. Autodesk executives will discuss market factors, corporate strategy, and financial metrics.

**WHEN**:     Thursday, April 26, 2007 from 8:30am to approximately 1:00pm EDT.

**HOW**:      To listen to the live presentations, please go to http://www.autodesk.com/investors. This webcast will be archived for approximately one year on our website.

**CONTACT**:  For more information, please call Autodesk Investor Relations at 415-507-6705

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### Autodesk Holds Annual Investor Meeting Updates Guidance for the First Quarter of Fiscal 2008

26 April 2007

Autodesk Inc. announced that key members of the senior management team will present an overview of the company's strategy at its 2007 Investor Meeting today. At the event, management will illustrate the significant, long-term macro-economic trends that drive the company's business as well as its industry-leading execution and outstanding competitive position. In anticipation of the meeting, the company is providing an update on its financial guidance for the first quarter of fiscal 2008. With less than one week remaining in the first quarter of fiscal 2008, management indicates first quarter revenue will be at the

high end, or slightly above, the previously issued revenue guidance range of $490 million to $500 million.

"The global market is changing at an unprecedented rate," said Carl Bass, Autodesk president and chief executive officer. "Now more than ever, our customers need design solutions that provide the capability to address the key challenges facing their businesses including globalization and the rising cost of energy. For 25 years, Autodesk has provided solutions that help our customers create smarter, richer and more innovative designs. From the introduction of the first version of AutoCAD in 1982, to the recent release of our most sophisticated digital prototyping solutions, Autodesk has continued to innovate for the benefit of our customers who are changing the world through design."

In the past four years, Autodesk revenues have more than doubled, reaching $1.84 billion in fiscal 2007. Key drivers of the company's strong growth include revenue from new seats, growth in emerging economies and rapid adoption of the company's subscription program. In addition, penetration of the company's model-based 3D software solutions continues to increase.

"Last month, we launched our entire 2008 family of products including AutoCAD, the Inventor family of products and the Revit family of products. Customer feedback indicates that these versions are the best yet. I am confident that our products, our strategy, our competitive position and our ability to execute will sustain Autodesk's strong financial performance in fiscal 2008 and into the future."

## First Quarter Fiscal 2008

With less than one week remaining in the first quarter, net revenues are expected to be near the high end, or slightly above, the previously issued range of $490 million to $500 million. In addition, non-GAAP operating margins are expected to be 25.5 percent to 26.3 percent for the first quarter of fiscal 2008. Non-GAAP operating margins do not include SFAS 123R stock- based compensation expenses, which the company is currently unable to determine but believes will be significant, amortization of acquisition related intangibles of approximately $4 million, and reimbursement to employees for tax issues arising from the stock option review, which the company is currently unable to estimate but believes to be significant. Company estimates also include approximately $4 million in the first quarter of fiscal 2008 for legal, tax and accounting fees related to the voluntary stock option review. As previously announced, because accounting related to the restatement of the company's financial statements is being finalized as a result of the voluntary stock option review, the company is not able to provide GAAP operating margins for the first quarter of fiscal 2008 or fiscal year 2008 at this time.

## Fiscal Year 2008

For fiscal year 2008, net revenues are expected to be between $2.075 billion and $2.125 billion. Not taking into account SFAS 123R stock-based compensation expenses, which the Company is currently unable to determine but believes will be significant, amortization of acquisition related intangibles of approximately $16 million, and reimbursement to employees for tax issues arising from stock option review which we are unable to estimate but believe to be significant, non-GAAP operating margins for fiscal year 2008 are expected to be in the range of 27 to 27.5 percent.

**Long Term Revenue Growth Target**

Based upon the strength of its business strategy, the company reiterated its 15 percent compound annual revenue growth rate estimate for fiscal years 2008 through 2012.

Autodesk's management team plans to discuss its business strategy at its Annual Investor Meeting being held today in New York City. A webcast of today's Annual Investor Meeting will be available beginning at 8.30 a.m. eastern time at http://www.autodesk.com/investors. A webcast and podcast replay of the event will be available beginning at 2.30 pm eastern time on our website at http://www.autodesk.com/investors. This replay will be maintained on our website for at least twelve months.

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### Autodesk Extends Invitation to Join its First Quarter Fiscal 2008 Financial Results Conference Call on Thursday, May 17th at 2:00 p.m. PDT

26 April 2007

Autodesk Inc. announced that it will broadcast its first quarter fiscal 2008 financial results conference call live via its website on Thursday, May 17, 2007.

**WHAT**:  Autodesk, Inc. First Quarter FY2008 Financial Results Conference Call

**WHEN**:  Thursday, May 17, 2007 at 2:00 p.m. PDT

**HOW**:   If you would like to listen to the live call, Autodesk will be hosting a webcast at http://www.autodesk.com/investors. If you are unable to access the Internet for the call, you may dial in at 800.901.5241 or 617.786.2963 and reference 72422598 as the pass code. An audio replay webcast and podcast will also be available at 4:00 p.m. PDT on our website at http://www.autodesk.com/investors or by dialing 888.286.8010 or 617.801.6888 and reference 64067637 as the pass code.

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### Cadence Reports Q1 Revenue Up 11% Over Q1 2006

25 April 2007

Cadence Design Systems, Inc. reported first quarter 2007 revenue of $365 million, an increase of 11 percent over the $328 million reported for the same period in 2006. On a GAAP basis, Cadence recognized net income of $44 million, or $0.15 per share on a diluted basis, in the first quarter of 2007, compared to $22 million, or $0.07 per share on a diluted basis, in the same period in 2006.

In addition to using GAAP results in evaluating Cadence's business, management believes it is useful to measure results using a non-GAAP measure of net income, which excludes, as applicable, amortization of intangible assets, stock-based compensation expense, in-process research and development charges, integration and acquisition-related costs, gains and expenses related to non-qualified deferred compensation plan assets, executive severance payments, restructuring charges, losses on extinguishment of debt, and equity in losses (income) from investments. Non-GAAP net income is adjusted by the amount of additional taxes or tax benefit that the company would accrue if it used non-GAAP results instead of GAAP results to calculate the company's tax liability. See "GAAP to non-GAAP Reconciliation" below for further information on the non-GAAP measure.

Using this non-GAAP measure, net income in the first quarter of 2007 was $75 million, or $0.26 per share on a diluted basis, as compared to $66 million, or $0.21 per share on a diluted basis, in the same period in 2006.

"We saw strong growth in our core business in the first quarter led by our digital platform, and we continued to build the foundations for expansion into adjacent markets," said Mike Fister, president and CEO of Cadence.

"The first quarter was characterized by continued consistent execution against our objectives to demonstrate growth and achieve our operating targets," added Bill Porter, executive vice president and chief financial officer.

The following statements are based on current expectations. These statements are forward looking, and actual results may differ materially. These statements do not include the impact of any mergers, acquisitions or other business combinations completed after Mar. 31, 2007.

Click here for the Q1 2007 Financial Schedules

**Business Outlook**

For the second quarter of 2007, the company expects total revenue in the range of $375 million to $385 million. Second quarter GAAP earnings per diluted share are expected to be in the range of $0.17 to $0.19. Diluted earnings per share using the non-GAAP measure defined below are expected to be in the range of $0.28 to $0.30.

For the full year 2007, the company expects total revenue in the range of $1.580 billion to $1.630 billion. On a GAAP basis, net income per diluted share for fiscal 2007 is expected to be in the range of $0.84 to $0.92. Using the non-GAAP measure defined below, diluted earnings per share for fiscal 2007 are expected to be in the range of $1.27 to $1.35.

A schedule showing a reconciliation of the business outlook from GAAP net income and diluted net income per share to the non-GAAP net income and diluted net income per share is included with this release.

**Audio Webcast Scheduled**

Fister and Porter will host a first quarter 2007 financial results audio webcast today, Apr. 25, 2007, at 2 p.m. (Pacific) / 5 p.m. (Eastern). An archive of the webcast will be available starting Apr. 25, 2007, at 5 p.m. Pacific time and ending at 5 p.m. Pacific time on May 2, 2007. Webcast access is available at http://www.cadence.com/company/investor_relations.

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### Delcam Starts 2007 with Best Ever Quarterly Sales

27 April 2007

Delcam announced that it set a new quarterly sales record in the first quarter of 2007 with total sales of £7.9 million. This beat the previous quarterly record, set in the final quarter of 2006, by almost 8% and showed an increase of over 15% compared to sales in the first quarter last year. This latest achievement follows record annual sales by the company in 2006.

Commenting on the results, Managing Director Hugh Humphreys said, "The sales for the first quarter are in line with our budget. With the addition of the PartMaker and Crispin families of software to our product range during last year, it would have been disappointing if we had not shown significant growth over our 2006 first quarter. More significant is the increase in sales compared to the final quarter of last year. Our final quarter is almost always the best for sales and the 2006 figures included PartMaker sales for the whole period and Crispin sales for part of the time."

The record overall sales total showed particularly strong growth in the revenue from maintenance contracts. "We have continued to increase our investment in research and development to ensure that our software will provide even greater benefits to our customers," explained Mr. Humphreys. "The increase in our revenues from maintenance confirms the high value that our customers place in our new software releases and in our support services."

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### DS Reports Strong First Quarter Execution With Total Revenue Up 15%

27 April 2007

Dassault Systèmes (DS) reported financial results for the first quarter ended March 31, 2007.

- Summary First Quarter 2007 Financial Highlights
- GAAP revenue of €290.9 million and GAAP EPS of €0.28
- Non-GAAP revenue of €294.7 million, up 15% (up 21% in constant currencies)
- Non-GAAP EPS of €0.39, up 15% after absorbing an estimated 9 point currency impact
- Total ENOVIA non-GAAP revenue up 139% in constant currencies, and up 29% in constant currencies before including MatrixOne

DS announces plans to acquire ICEM to complement DS' offering in high-end surfacing and styling

Bernard Charlès, Dassault Systèmes President and Chief Executive Officer, commented, "Dassault Systèmes had a very solid start to the year as the implementation of our new PLM mid-market channel and redesigned partnership with IBM are delivering results. DS achieved a 21% constant currency increase in non-GAAP revenue and non-GAAP earnings per diluted share increased 15% in the first quarter."

**First Quarter 2007 Financial Summary[1]**

**First Quarter 2007 Financial Highlights:**

| First Quarter 2007 In millions of Euro, except per share data | **GAAP** | | | **Non-GAAP** | | |
|---|---|---|---|---|---|---|
| | Q1 2007 | Growth | Growth in cc* | Q1 2007 | Growth | Growth in cc* |
| Total Revenue | 290.9 | 15% | 21% | 294.7 | 15% | 21% |
| EPS | 0.28 | 8% | | 0.39 | 15% | |
| Operating margin | 15.8% | | | 22.1% | | |

* in constant currencies

GAAP total revenue increased 15% to €290.9 million (21% in constant currencies) in the 2007 first quarter, with a 15% increase in software revenue and a 16% increase in services and other revenue.

Non-GAAP total revenue increased 15% to €294.7 million (21% in constant currencies), driven by a 15% increase (21% in constant currencies) in non-GAAP software revenue and a 16% increase (22% in constant currencies) in non-GAAP services and other revenue.

- All geographic regions contributed to the increase in total GAAP revenue, with Europe up 10%, the Americas up 27% (38% in constant currencies) and Asia increasing 11% (22% in constant currencies).

- From a segment perspective, both Product Lifecycle Management ("PLM") and Mainstream 3D posted strong year-over-year growth. PLM non-GAAP revenue increased 16% (23% in constant currencies). In Mainstream 3D, non-GAAP revenue increased 10% (16% in constant currencies) with new licenses increasing 15% to 11,813 driven by strong SolidWorks results.

- ENOVIA helped drive the year-over-year growth in PLM, with ENOVIA non-GAAP revenue increasing 139% in constant currencies; excluding MatrixOne, ENOVIA non-GAAP revenue increased 29% in constant currencies.

- DS' PLM results in the first quarter also benefited from a good performance by CATIA, a strong start of the year from SIMULIA in the simulation market, and increased traction in the aerospace industry for DELMIA in digital manufacturing.

- Both CATIA and SolidWorks contributed to the 9% growth in new licenses which totaled 19,625 in the 2007 first quarter.

Bernard Charlès stated, "The first quarter reflected a good dynamic with large companies and our indirect channels. We enjoyed solid PLM mid-market end-user results, demonstrating this market's potential to drive CATIA growth. In PDM, our ENOVIA portfolio is building momentum as evidenced by its strong performance during the first quarter. It is clear that we are advancing our ENOVIA market

position with key wins in automotive, aerospace and heavy industries, increased traction in the mid-market and continued diversification into new market segments."

**GAAP earnings per diluted share increased 8% to €0.28 in the 2007 first quarter.**

Non-GAAP earnings per diluted share increased 15% to €0.39, largely reflecting higher operating income, which enabled DS to absorb an estimated nine point negative currency impact. In the 2007 first quarter the US dollar and Japanese yen weakened on average approximately 9% and 11%, respectively, compared to the 2006 first quarter.

**Cash flow and other financial highlights**

Net operating cash flow was €108.4 million for the first quarter ended March 31, 2007. Cash and short-term investments totaled €562.1 million and long-term debt was €204.1 million at March 31, 2007.

**Business Outlook**

Thibault de Tersant, Senior Executive Vice President and CFO, commented, "The first quarter was rewarding with non-GAAP revenue, non-GAAP operating margin and non-GAAP EPS coming in above our objectives. We are raising our full year 2007 non-GAAP revenue growth objective in constant currencies to about 13% to take into account a portion of the over-performance during the first quarter. Thanks to our first quarter as well as anticipated operating leverage, we are maintaining our full year 2007 non-GAAP operating margin and non-GAAP EPS objectives, in spite of having to absorb additional currency impact, as we have updated our dollar and yen currency exchange rate assumptions."

The Company's objectives are prepared and communicated only on a non-GAAP basis and are subject to the cautionary statement set forth below:

- Second quarter non-GAAP total revenue objective of about €298 to €302 million, non-GAAP EPS of about €0.38 to €0.40 and non-GAAP operating margin of about 22%;

- 2007 non-GAAP total revenue objective of about 13% growth in constant currencies (previously 12-13%);

- 2007 non-GAAP EPS objective of about €2.00 to €2.05, representing about 9% to 12% growth, unchanged from the prior outlook;

- 2007 non-GAAP operating margin objective of about 27%, unchanged from the prior outlook;

- Objectives based upon exchange rate assumptions for the remaining 2007 quarters of US$1.35 (from 1.30 previously) per €1.00 and JPY 160 (from 155 previously) per €1.00, which are updated from the prior outlook;

- 2007 non-GAAP revenue range of about €1.275 to €1.285 billion, updated from the prior outlook.

The non-GAAP objectives set forth above do not take into account the following accounting elements: deferred revenue write-downs estimated at approximately €8 million for 2007; stock-based compensation expense estimated at approximately €13 million for 2007, and amortization expense for acquired intangibles estimated at approximately €11 million per quarter. These estimates do not include any new stock option or share grants, or any new acquisitions completed during 2007, including today's announcement regarding the proposed acquisition of ICEM.

**Annual Shareholders' Meeting date and cash dividend recommendation**

The Annual Shareholders' Meeting has been scheduled for June 6, 2007. The Board of Directors has recommended an annual cash dividend equivalent to €0.44 per share, representing €50.9 million in the

aggregate, for the fiscal year ended December 31, 2006. The declaration and payment of any cash dividend is subject to approval by shareholders at the Annual Shareholders' Meeting.

## Strategy, Technology, Customers and Partnerships

In a separate press release being issued today, DS announced that it has entered into an acquisition agreement, pursuant to which DS would acquire ICEM, a leading provider of styling, high quality surface modeling and rendering solutions, for an estimated cash purchase price of €51.4 million. The completion of the agreement is subject to closing conditions. DS has not included ICEM in its current financial objectives, but if the transaction is completed, ICEM is not expected to be dilutive to DS' non-GAAP earnings.

In April, Dassault Systèmes was named the PLM market leader in CIMdata's 2006 PLM Market Analysis. In the report, CIMdata calculated Dassault Systèmes 'market footprint' at $2.9 billion or over $800 million more than the nearest competitor. The report defines 'market footprint' as the company's direct and partner-generated PLM revenues. CIMdata also ranked Dassault Systèmes as the leader in direct revenues at $1.5 billion, or almost $300 million more than the nearest competitor. The report also ranked DS first in revenue of the PLM 'mindshare leaders'. Mindshare leaders, as defined by CIMdata, are the companies with the largest and most innovative PLM implementations, and those perceived by customers as thought and technology leaders.

In March, DS announced that Volkswagen AG will implement DELMIA Process Engineer (DPE) software throughout its organization. On the basis of a group-wide agreement, DPE will be employed in all production sites for strategic assembly planning for the Volkswagen, Audi, Skoda and Seat brands. This will lead to improved planning reliability, shorter planning times, and a reduction of development costs.

## Conference call information

Dassault Systèmes will host a teleconference call today, Friday, April 27, 2007 at 3:00 PM CET/2:00 PM London/9:00 AM New York. The conference call will be available via the Internet by accessing http://www.3ds.com/corporate/investors/. Please go to the website at least fifteen minutes prior to the call to register, download and install any necessary audio software. The webcast teleconference will be archived for 30 days. Financial information to be discussed in the call will be available on the Company's website prior to commencement of the teleconference at http://www.3ds.com/corporate/investors/. Additional investor information can be accessed at http://www.3ds.com/corporate/investors/ or by calling Dassault Systèmes' Investor Relations at 33.1.40.99.69.24.

(1) Dassault Systèmes completed the acquisitions of ABAQUS, Inc. in October, 2005 and MatrixOne Inc. in May, 2006 and has accounted for these acquisitions pursuant to U.S. GAAP ("GAAP"). In addition to GAAP information, this press release presents supplemental non-GAAP financial information which reflects certain adjustments to our GAAP information. The supplemental non-GAAP financial information adjusts our GAAP financial information to exclude: (i) deferred revenue adjustments, (ii) amortization of acquired intangibles and (iii) stock-based compensation expense and (iv) one-time, tax restructuring effects, as applicable. See Attachment A of this press release for an explanation of these adjustments, and tables which set forth the most comparable GAAP financial measures and a reconciliation of the GAAP and non-GAAP financial data.

## Forward-looking information

Statements herein that are not historical facts but express expectations or objectives for the future, including but not limited to statements regarding our non-GAAP financial performance objectives, are

forward-looking statements (within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended).

Such forward-looking statements are based on our management's current views and assumptions and involve known and unknown risks and uncertainties. Actual results or performances may differ materially from those in such statements due to a range of factors. In preparing such forward-looking statements, we have in particular assumed an average euro to U.S. dollar exchange rate of $1.35 per €1.00 and an average euro to Japanese yen exchange rate of JPY160 to €1.00 for the last three quarters of 2007; however, currency values fluctuate, and our results of operations may be significantly affected by changes in exchange rates. We have also assumed that there will be no substantial decline in general levels of corporate spending on information technology, and that our increased responsibility for both indirect and direct PLM sales channels, and the resulting commercial and management challenges, will not prevent us from maintaining growth in revenues or cause us to incur substantial unanticipated costs and inefficiencies. Our actual results or performance may also be materially negatively affected by difficulties or adverse changes affecting our partners or our relationships with our partners, including our longstanding, strategic partner, IBM; new product developments and technological changes; errors or defects in our products; growth in market share by our competitors; and the realization of any risks related to the integration of MatrixOne or any other newly acquired company and internal reorganizations. Unfavorable changes in any of the above or other factors described in the Company's SEC reports, including the Form 20-F for the year ended December 31, 2005, which was filed with the SEC on June 30, 2006, could materially affect the Company's financial position or results of operations.

Additional financial information is available at http://www.3ds.com/corporate/investors/earnings/.

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### EVE Ends Fiscal Year 2007 with Year-to-Year Revenue Growth of 115%

25 April 2007

EVE, supplier of the broadest selection of hardware-assisted verification solutions, including hardware description language (HDL) acceleration, fast emulation and easy prototyping, announced that it closed its fiscal year March 30, 2007, with revenue growth of 115%. EVE also announced it has reached five consecutive quarters of profitability.

"These results show a stunningly successful year and I congratulate the entire EVE team for their hard work and dedication," says Luc Burgun, EVE's chief executive officer (CEO) and president. "The increasing use of software content in system-on-chip designs requires new validation tools. Our ZeBu has proven to be the best product on the market to address this growing trend."

The news comes after EVE expanded its customer base to 20 new customers, bringing the total to 50 customers and more than 200 systems installed worldwide. New customers include LSI Logic Corporation, Olympus, Qualcomm and Electronics and Telecommunications Research Institute (ETRI). This momentous year also recorded volume deployment of the ZeBu (for zero bugs) verification platform among design teams at several major corporations.

In 2006, EVE moved to the next level of preparation for a healthy future. Highlights include the announcement in January that EVE acquired HDL accelerator developer Tharas Systems Inc., bringing the total number of employees to 80 worldwide. The acquisition expanded EVE's position as the leading supplier of fast emulation and easy prototyping solutions to include best-in-class HDL accelerators.

On the product front, EVE introduced the largest capacity addition to the ZeBu family with the ZeBu-XXL fast emulation solution at EDS-Fair in January. ZeBu-AX, an HDL accelerator designed for ease of use with almost unlimited capacity, was unveiled last week during DATE. ZeBu-XXL and ZeBu-UF are becoming the leading tools for addressing the increasing demand for fast — at or about 10 megahertz — and cycle accurate hardware/software co-verification. They set new performance standards for transaction-based acceleration, challenging the traditional in-circuit emulation (ICE) approach.

Last month, EVE formed EVE Design Automation Pvt. Ltd. (EVE DA), a wholly owned subsidiary based in Bangalore, India, headed by Montu Makadia (Mak). Additionally, EVE welcomed two seasoned executives to foster its success, naming Keith Hopkins to the role of vice president of worldwide sales and William Addi as chief financial officer (CFO).

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### Magma Announces 2007 Analysts Briefing

26 April 2007

Magma® Design Automation Inc. announced it will conduct its 2007 Analysts Briefing on May 1, 2007 in New York City. Members of Magma's management team will discuss the company's business strategy, growth drivers and financial overview.

The event will be broadcast live on the Internet and accessible via the Magma website at http://investor.magma-da.com/medialist.cfm on May 1 beginning at 9 a.m. EDT. A replay of the webcast will be accessible within approximately two hours of the live event's conclusion.

Magma will announce financial results for its 2007 fourth quarter and fiscal year, which ended April 1, 2007, after market close today.

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### MSC.Software to Announce First Quarter Financial Results on May 9, 2007

25 April 2007

MSC.Software Corporation will announce financial results for the first quarter ended March 31, 2007 after market close on May 9, 2007. The Company will host a conference call and web cast to discuss these first quarter results on May 9, 2007 at 1:30 p.m. Pacific Time.

The web cast can be accessed at the following URL: http://www.mscsoftware.com/ir/, or to participate in the live conference call dial-in to (800) 374-0151 using the following conference ID code: 7122772. The international dial-in number to access the live call is (706) 634-4981.

An archived version of the conference call will be available at http://www.mscsoftware.com/ir/. The teleconference replay will be available until Friday May 11, 2007 and can be accessed at: U.S. (800) 642-1687 using the conference ID code: 7122772.

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### PTC Reports Second Quarter Fiscal Year 2007 Results

25 April 2007

PTC reported revenue of $228.1 million for the second quarter ended March 31, 2007, up 14% from the same period last year. Total license revenue for the second quarter of 2007 was $71.3 million, up 31% from the same period last year. Results for the second quarter of 2007 reflected significant year-over-year growth in Europe and North America and strength across all product lines.

"Our results reflect our continued success in the market," said C. Richard Harrison, president and chief executive officer. "For the past two years, we have delivered revenue growth that is higher than overall market growth. This is the result of strong execution of our strategy to drive customer success by delivering highly differentiated solutions that are broad, scalable and integral. Additionally, our operating performance reflects continued operating margin expansion and earnings growth."

GAAP operating income for the second quarter of 2007 was $21.3 million, compared with $15.1 million in the year-ago period. GAAP net income for the second quarter of 2007 was $17.4 million, or $0.15 per diluted share, compared with GAAP net income of $10.8 million, or $0.09 per diluted share, in the year-ago period. Non-GAAP operating income, which excludes stock-based compensation cost and amortization of acquisition-related intangible assets, was $33.6 million, or 15% of total revenue for the second quarter of 2007, compared with $26.8 million, or 13% of total revenue in the year-ago period. Non-GAAP net income, which excludes the items excluded from non-GAAP operating income and the related tax effect of those items, was $28.2 million for the second quarter of 2007, or $0.24 per diluted share, compared to $22.5 million in the year-ago period, or $0.20 per diluted share. We have provided a reconciliation between GAAP and non-GAAP results in the attached financial tables.

Cash and cash equivalents were $238 million at the end of the second fiscal quarter of 2007, up from $147 million at the end of the first fiscal quarter of 2007 primarily due to better-than-anticipated receivables collections, including seasonal annual maintenance collections. Cash flow from operations was $92.5 million and $76.1 million for the second quarter and first six months of 2007 respectively.

**Second Quarter 2007 Revenue Metrics**

PTC delivered the following results for the second quarter of fiscal 2007 compared to the same period last year:

- Total revenue growth of 14%, driven by license revenue growth of 31%, maintenance revenue growth of 11%, and training and consulting service revenue growth of 3%;

- Desktop Solutions total revenue growth of 11% to $146.3 million, driven by license revenue growth of 40% and maintenance revenue growth of 9%, partially offset by a training and consulting service revenue decline of 24%. License revenue growth reflects strong sales of Pro/ENGINEER®, including new seats, upgrades and modules, as well as revenue attributable to the recently acquired Mathcad® and IsoDraw® products, which we acquired in the third quarter of fiscal 2006 and first quarter of fiscal 2007, respectively;

- Enterprise Solutions total revenue growth of 20% to $81.8 million, driven by training and consulting service revenue growth of 23%, maintenance revenue growth of 20%, and license revenue growth of 15%. Growth in license revenue was primarily attributable to sales of Windchill® PDMLink® as more customers adopt our content and process management solutions both within engineering and the enterprise;

- Total revenue from our reseller channel of $48.9 million, which grew 24%, reflecting significant adoption of our solutions in the SMB market around the world;

- Revenue growth of 15% in North America, 24% in Europe and 1% in Asia-Pacific. Asia-Pacific revenue growth reflects 10% growth in the Pacific Rim partially offset by an 8% decline in Japan.

In the second quarter, PTC received orders from leading organizations, including Airbus; ASUSTeK Computer Inc.; Bang & Olufsen; Carrier Corporation; China Shipbuilding; Hewlett Packard Company; Hitachi, Ltd.; Limited Brands; MTU Friedrichshafen GmbH; and Schneider Electric Industries SAS.

**First Six Months 2007 Revenue Metrics**

PTC delivered the following results for the first six months of fiscal 2007 compared to the same period last year:

- Total revenue growth of 15%, driven by license revenue growth of 22%, maintenance revenue growth of 12%, and training and consulting service revenue growth of 12%;

- Desktop Solutions total revenue growth of 13%, driven by license revenue growth of 30% and maintenance revenue growth of 10%, partially offset by a training and consulting service revenue decline of 8%;

- Enterprise Solutions total revenue growth of 18%, driven by training and consulting service revenue growth of 25%, maintenance revenue growth of 19%, and license revenue growth of 9%;

- Total reseller channel revenue growth of 22%;

- Revenue growth of 14% in North America, 17% in Europe, and 12% in Asia-Pacific. Asia-Pacific revenue growth reflects 18% growth in the Pacific Rim and 5% growth in Japan.

"We have the right strategy and are executing well," continued Harrison. "Leading companies are faced with increasing pressure to improve product development processes, and they are choosing to partner with PTC when making important investment decisions to address these pressures. As a result, we continue to have a high degree of confidence in our business outlook, our ability to sustain annual organic revenue growth of at least 10%, and our ability to continue to drive significant operating margin and earnings growth in the second half of 2007."

**Third Quarter and Fiscal Year 2007 Financial Outlook**

PTC's revenue forecast for the third quarter of fiscal 2007 is between $235 million and $240 million. On a GAAP basis, earnings per share are expected to be between $0.15 and $0.18. The Company expects non-GAAP third quarter earnings per share to be between $0.26 and $0.29. These non-GAAP earnings expectations exclude the following third quarter estimated expenses and their tax effects:

- Approximately $10 million of expense related to stock-based compensation

- Approximately $3.5 million of acquisition-related amortization expense

PTC expects its cash balance to be approximately $260 million at the end of the third quarter.

For the fiscal year ending September 30, 2007, PTC expects revenue to be about $950 million. On a GAAP basis, earnings per share are expected to be between $0.71 and $0.76. The Company expects non-GAAP earnings per share to be between $1.17 and $1.22 for the fiscal year. These non-GAAP earnings expectations exclude the following full-year estimated expenses and their tax effects:

- Approximately $40 million of expense related to stock-based compensation

- Approximately $14 million of acquisition-related amortization expense

**Important Information about Non-GAAP References**

References by PTC to non-GAAP operating costs and expenses, non-GAAP operating income, non-GAAP net income and non-GAAP earnings per share refer to costs and expenses, operating income, net income or earnings per share, respectively, excluding stock-based compensation cost, amortization of acquisition-related intangible assets, and their related tax effects, as well one-time tax items, if any. GAAP requires that these costs and charges be included in costs and expenses and, accordingly, used to determine operating income and earnings per share. PTC's management uses non-GAAP operating costs

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

First, although PTC undertakes analyses to ensure that its stock-based compensation grants are in line with peer companies and do not unduly dilute shareholders, PTC allocates these grants and measures them at the corporate level. Management excludes their financial statement effect when planning or measuring the periodic financial performance of PTC's functional organizations since they are unrelated to our core operating metrics. Likewise, we believe that excluding amortization of intangible assets associated with acquisitions provides investors with information that helps to compare period-over-period operating performance by highlighting the effect of acquisitions on our results of operations. In addition, PTC's management excludes the financial statement effect of these items in creating operating budgets for PTC's functional business units and in evaluating and compensating employees due to the fact that it is difficult to forecast these expenses. Lastly, we believe that providing non-GAAP earnings per share affords investors a view of earnings that may be more easily compared to peer companies and enables investors to consider PTC's earnings on both a GAAP and non-GAAP basis in periods when PTC is engaged in acquisition activities or undertaking non-recurring activities.

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

**Earnings Call Webcast**

PTC will provide detailed financial information and an outlook update on its second quarter fiscal year 2007 results conference call and live webcast on April 25, 2007 at 10 a.m. ET. This earnings press release and accompanying financial and operating statistics will be accessible prior to the conference call and webcast on PTC's web site at http://www.ptc.com/for/investors.htm. In addition, the live webcast may be accessed at the same web address. To access the live call, please dial 888-566-8560 (in the U.S.) or +1-517-623-4768 (international). Please use passcode PTC. A replay of the call will be available until 5:00 p.m. ET on April 30, 2007. To access the replay via webcast, please visit http://www.ptc.com/for/investors.htm. To access the replay by phone, please dial 402-220-9746.

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### *Renishaw Investment in Delcam Confirmed*

25 April 2007

At an EGM held on 23rd April, Delcam shareholders voted to accept an investment of around £6.1 million from the metrology company, Renishaw. The investment is through a subscription for 1,524,052 new Ordinary Shares at £4.00 per share, which represents 20% of Delcam's enlarged capital. The net proceeds will be used to fund the expansion of Delcam's business and for further investment in the development, sales and support of the company's range of CADCAM software. Following the investment, Renishaw has been invited to nominate a director to the Board of Delcam.

Renishaw and Delcam have worked together for many years, share common interests in the fields of engineering and metrology, and worldwide have many common customers. It is believed that closer cooperation will enhance the sales of both companies. This will be achieved by initiatives such as the agreement recently entered into by Delcam for the development of software to support the application of Renishaw's new probes.

Speaking about the investment, Ben Taylor, Renishaw's Assistant Chief Executive said, "The Directors of Renishaw are very pleased to further our long-standing relationship with Delcam in this manner and are confident that the new relationship will be extremely fruitful for the progress and continuing development of both companies."

He continued, "We see particular benefit in the development of software that will enhance our new developments in the fields of dental, medical and precision metrology."

Chairman of Delcam plc, Tom Kinsey, added, "The directors of both companies believe that closer cooperation will enhance our respective sales and will provide opportunities for developing software to support a range of exciting new Renishaw products."

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### Telelogic Interim Report, January - March 2007

24 April 2007

- Revenue grew with 25% in local currency during the first quarter to SEK 388.9 million.

- Sales of licenses and maintenance rose 33% in local currency. Sales of services remained at the same level as during the first quarter last year.

- Pre-tax profit increased 36% to SEK 47.7 million for the quarter.

- Earnings per share increased 25% for the first quarter and amounted to SEK 0.15/share.

- Cash flow from current operations was SEK 108.5 million during the quarter.

- Forecast adjusted upward for the full year 2007.

CEO's comments on the quarter:

"The favorable trend that began in autumn 2006 continued during the first quarter of 2007. Telelogic posted double-digit increases in both revenue and earnings. Cash flow has also continued to be strong.

We see positive trends in all regions, though individual countries may still show weak growth. The market situation in general feels stable with good demand.

On the product side, the Requirements Management category recovered, which is clearly positive. This is partly related to the specialization of the organization which began in 2006, which has resulted in adding new customers, both on the civilian side of the industry and at the same time in other industries.

Based on our strong first quarter we have chosen to adjust our revenue growth forecast upward to 7-12 percent as well as our forecast for earnings per share which is adjusted upward to 15-20 percent compared with last year."

Anders Lidbeck, CEO and President for Telelogic

**Key numbers January - March 2007**

- Revenue: 388.9 SEK million (327.1 SEK million)

- Pre-tax profit: 47.7 SEK million (35.0 SEK million)

- Income after tax: 36.1 SEK million (28.4 SEK million)

- Earnings per share: 0.15 SEK (0.12 SEK)

- Cash flow, current operations: 108.5 SEK million (104.9 SEK million)

Key numbers for corresponding period from previous year in parenthesis.

# Implementation Investments

### *Altair's HyperWorks CAE Software Helps Luna Rossa Challenge 2007 Stay on Course for the America's Cup*

20 April 2007

Altair Engineering, Inc. announced that the design team of the Luna Rossa Challenge 2007 has used HyperWorks to optimize all composite components on the sailing boat. The Luna Rossa Challenge will run in this year's America's Cup that starts in Valencia, Spain, in April 2007. The international sailing competition determines the fastest America's Cup Class (ACC) sailboat and crew in the world. Using Altair's advanced optimization technology in developing the boat's design resulted in as much as a 15 percent reduction in overall weight, a critical factor in boat racing success.

"Altair CAE products allowed us to significantly reduce the overall weight of all the boat's structural components made of composite material," said Andrea Avaldi, Luna Rossa Challenge Design Team. "With some of the components, we reached a weight reduction of more than 15 percent compared to the originally designed components while still maintaining all our objectives for stiffness and strength."

"Advanced optimization technology can play a vital role in developing robust boat designs in less time, especially when weight is an important factor in overall product success. We are very happy that the design team of Luna Rossa Challenge 2007 has used our software to drive the development of the new sailboat," said Cosimo Panetta, managing director, Altair Engineering Srl. "Challenges such as building a world-class racing sailboat such as this call for cutting-edge technology in every development phase. With HyperWorks, the Luna Rossa engineers have chosen such a technology to optimize the composite components, and the weight savings they achieved speaks for itself."

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### Arena Solutions Doubles Customer Base in Record Fiscal Year 2006

23 April 2007

Arena Solutions reported that new bookings for the fiscal year ended December 31, 2006, grew by more than 39 percent over the previous year. The company nearly doubled its customer base in 2006, reflecting a surge in new adoption for their on-demand PLM solution. Accompanying this growth was significant growth in the 'ecosystem' that collaborates with Arena PLM customers, with the supplier user community nearly doubling in 2006 as well.

The company's consistently high performance was driven in part by positive customer reaction to the innovative new functionality provided in two major releases of Arena PLM during the year. Enhancements focused on simplifying integration between Arena PLM and essential enterprise systems, delivering even higher levels of security and enriching customer experience so users could more easily customize and manage their PLM system. In addition, Arena delivered a first-of-its-kind, value-added enterprise service in partnership with Avnet Electronics Marketing that lets Arena PLM customers integrate dynamic, rich reference content, including RoHS and environmental regulation data, directly into Arena PLM with a single click. To further simplify collaboration across the outsourced supply chain Arena also integrated Skype software, enabling users, from within the context of their Arena PLM environment, to detect the online presence of individual product team members and instantly engage them in a VoIP call or text chat.

Arena set the bar even higher in fiscal 2006, helping game-changing manufacturers from the electronics, medical, consumer and automotive industries -- including Leatherman Tool Group, Pay By Touch, Engine Power Source, ShoreTel, Measurement Specialties, Life Fitness, Control4, Pointe Conception Medical, Iconix Video, Desktop Factory, Energy Innovations and more -- deliver higher quality products to market faster, better manage and maintain regulatory compliance and collaborate more effectively with ever-expanding global supply chains.

"We are pleased to finish another year distinguished by constant, healthy growth. Our success is due in large part to the value that all of these companies -- successful brands that span the breadth and depth of manufacturing -- derive from Arena PLM," said Michael Topolovac, chief executive officer of Arena Solutions. "On the heels of this record year, we're looking into 2007 with great optimism. We're seeing the on-demand advantage in action, with customers immediately beginning to use the new project collaboration functionality introduced in our Winter '07 release earlier this year: Within just hours of the feature going live, customers had already begun creating projects for initiatives ranging from RoHS compliance to new product development."

"I used to work in contract manufacturing, where I saw customers trying to address their PLM needs with a wide range of solutions -- from Microsoft® Excel to expensive client/server installations. Arena PLM stood out among them as a sophisticated system that was successfully meeting the needs of numerous companies," said Joe Finegold, vice president of operations at Iconix Video. "At Iconix, all it took was a quick investigation to determine that Arena PLM was the right choice for us too. As our primary location for storing BOM data, processing change orders and communicating with contract manufacturers and strategic suppliers, Arena PLM provides tremendous value by enabling everyone to collaborate around a single source of data. We can make sure our external partners have complete and accurate information just by copying them on change orders. With no extra work on our part, they get all the transparency they need -- and we get full traceability."

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### Autodesk Announces Famed as Inventor of the Month for April 2007

23 April 2007

Autodesk, Inc. announced that Famed Zywiec, the largest producer of medical equipment in Poland, has been named as the Autodesk Inventor of the Month for April 2007.

Located in Poland's Zywiec Valley, Famed Zywiec manufactures hundreds of diverse products and specialized furniture for hospitals and doctor's offices. These products range from operating tables and lights, to hospital and rehabilitation beds, dental chairs and incubators.

In producing this medical equipment, Famed Zywiec combines more than 80 years of market experience with the most modern technology and research and development efforts. This allows the company to manufacture and offer products of the highest quality that fulfill even the most stringent safety requirements. For its efforts, the company has received several quality certificates, including ISO 9001,

ISO 13485 and ISO 14001 -- an environmental management standard recognizing organizations that minimize the impact of their operations on the environment.

Inventor plays a key role in helping Famed Zywiec design and manufacture their products with a minimum of waste by providing 3D tools that allow them to visualize the impact of their ideas early in the design process, before anything is actually built. Working with local Autodesk reseller and training provider Evatronix S.A. allowed Famed Zywiec to immediately start benefiting from Inventor digital prototyping capabilities.

"Modeling a product in Inventor translates to incredible savings, especially at the prototyping and manufacturing stages," said Piotr Kozbial, R&D Director at Famed Zywiec. "Before Inventor, we used to produce four or five physical prototypes. With Inventor, the design that we create is the prototype, and we can easily incorporate feedback and optimize the design before we manufacture anything. That translates into less waste -- for us, and for the environment."

Each month, Autodesk selects an Inventor of the Month from the more than 600,000 users of Autodesk Inventor software. 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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### Cadence Voltagestorm Enables Itri And Ambarella To Deliver Low-Power Consumer Electronics

24 April 2007

Cadence Design Systems, Inc. announced that the Industrial Technology Research Institute (ITRI) of Taiwan, and Ambarella Taiwan, have both adopted the Cadence® Encounter® VoltageStorm® power-analysis technology to enable designs targeted for consumer electronics to meet their aggressive low-power specifications. Both companies implemented their design using the Cadence SoC Encounter™ RTL-to-GDSII system and looked to VoltageStorm dynamic and static power analysis to substantiate and verify the benefits of advanced low-power techniques, such as power gating, dynamic voltage-frequency scaling (DVFS) and multi-supply, multi-voltage (MSMV) scaling.

ITRI has developed a Parallel Architecture Core (PAC) digital-signal-processing chip with low-power and high-performance features for wireless communications and multimedia applications. The use of VoltageStorm power analysis to validate the success of its multi-voltage power-scaling techniques was critical to overall design success. The design was then implemented using the Cadence SoC Encounter RTL-to-GDSII system.

"We needed to minimize the power consumption for our latest DSP design, since the final application is a portable multimedia player," said Dr. David Chang, deputy general director of SoC Technology Center (STC) of ITRI. "We used the SoC Encounter system to implement our advanced low-power design methodology, including DVFS, MSMV and power switching. VoltageStorm was used to verify the

impact of power switches on both dynamic and static IR drop, and to validate that our power ramp-up times were within our engineering limits. VoltageStorm power analysis gave us valuable information that helped us validate and optimize our on-chip power delivery, and it is considered a valuable component of our signoff solution."

Ambarella Taiwan, a pioneering company in portable hybrid digital camera VLSI designs, recently released a 90-nanometer hybrid digital H.264 video and image SoC. The 10-million gate design was created by using Cadence technologies. The chip consumed only 1.5 Watts and ran at 250MHz. VoltageStorm power analysis was used to verify IR drop hierarchically.

"We were very concerned about the impact of dynamic IR drop on our latest SoC chip," said Chan Lee, vice president of VLSI at Ambarella. "If not managed effectively, we knew that IR drop could damage our silicon. VoltageStorm enabled us to optimize the power rails and increase the efficiency of the de-coupling capacitance, therefore minimize the dynamic IR drop. We were very pleased to see that VoltageStorm produced results that matched our engineering expectations and will continue to endorse VoltageStorm for our future tapeouts."

A key component of the Cadence Low-Power Solution and a technology of the Encounter digital IC design platform, VoltageStorm dynamic and static power analysis is a comprehensive, hierarchical power rail verification solution for SoC designs that use a variety of advanced power management design techniques. Like all of the other components of the Cadence Low-Power Solutions, VoltageStorm is based on the Common Power Format (CPF). CPF is an Si2 industry standard format for specifying power-saving techniques in the design process enabling engineers to share and re-use low-power intelligence. The result is a power-analysis solution that comprehensively analyzes the complex low-power-management techniques typically used in today's low-power designs.

"We are pleased to see VoltageStorm dynamic power analysis features continue to gain traction with leading customers and the further extension of its leadership position in static power analysis and verification," said Dr. Chi-Ping Hsu, corporate vice president, IC Digital and Power Forward at Cadence. "As companies continue to employ state-of-the-art low-power techniques in their designs, a unified and integrated solution for design, implementation, and analysis is needed. Cadence Encounter Platform delivers a production and silicon-proven solution for advanced low power."

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### *Configuration Solutions Adds Three New Automotive Customers As Demand for Program and Product Lifecycle Management (PPLM) Solutions Heats Up*

24 April 2007

Configuration Solutions announced that with costs soaring and margins shrinking, automotive suppliers have virtually no room for error in the quote to launch to production lifecycle. This is a key driver for the surge in new customers for the company. Configuration Solutions added Guilford, McKechnie Vehicle Components, and Florida Production Engineering as new customers.

Guilford, a North Carolina-based designer and developer of automotive interior textiles, recently selected and implemented CS-PMP (Program Management Process) – one of the six interactive modules in the CS-PPLM software suite – to streamline and unify their product development, program management and product rollout process. According to Kurt Kushner, Guilford's Vice President of Engineering & Program Management, "Each of our customers has its own process we need to support, but trying to manage every program differently creates confusion and disarray. CS-PMP helps us time key dates to our internal process deliverables. Planning, control and communication are the essential ingredients to launching a quality product on time and profitably, and we know that with CS-PMP we will get the results that will help build our business."

"Automotive suppliers realize that their short- and long-term business success depends on their ability to perfectly align every aspect of their internal processes with customer requirements. Recognizing how fragmented and incompatible existing IT applications were, we developed our CS-PPLM solution set specifically for automotive suppliers, so they would have the necessary software tools to systematically and cost-effectively manage program and product lifecycles," said Dale Colosky, President and CEO of Configuration Solutions, Inc.

Michigan-based McKechnie Vehicle Components completed implementation of CS-PMP, and expects measurable results, ranging from a three to five percent reduction in the amount of time between program kick-off and customer submission to a 50-75 percent reduction in engineering change lead time.

"CS-PMP allows us to manage and monitor our active programs in ways we were unable to previously, or unable to do as efficiently. With CS-PMP, we reduce errors and improve accuracy because everyone views the same documentation. In addition, global 24/7 access to all files, documents and CAD drawings means we maximize our productivity across the enterprise," said Eric Jensen, Program Management Director at McKechnie.

Configuration Solutions' CS-PPLM is a web-enabled suite of interactive application software modules connecting technology and business strategy to address the entire lifecycle of the quote-to-award business process, real-time program management, and ongoing product lifecycle management. The suite streamlines and automates workflows and procedures, from cost estimating, engineering, Bill of Material and manufacturing process generation, through quoting, financial review, documentation and submission of bids in the unique format required by each company's OEM customers, as well as new program rollouts and ongoing engineering changes to existing business.

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### Delcam's PowerMILL Helps Aerospace Shop Fly Through Production

23 April 2007

Accu-Tec Enterprises, Ltd., an aerospace CNC machine shop in Oklahoma, has found that using Delcam's PowerMILL CAM system to program its five-axis machining centre has allowed it to cut the cycle times on a family of four aircraft parts nearly in half while improving surface finishes.

David Steeber founded Accu-Tec with one customer back in 1988. As the aerospace industry has strengthened, so has Accu-Tec's order intake, which last year saw a growth in turnover of more than 250%, mostly through referrals from its customer base.

To keep up with its customers' demands for extremely complex air-frame parts, Accu-Tec has made investments in technology. Despite the increase in work, the company added only three employees, bringing the total to 15.

Most of the machines in the shop are three-axis Okuma vertical machining centres. Until recently at Accu-Tec, five-axis work was done by positioning and machining in three axes and then putting the parts on another fixture to align them in a new attitude. Now, the company is stepping up to true five-axis machining because the parts it is seeing have more complex surfaces and irregular shapes. They also require a high-quality surface finish but still need to be completed in shorter cycle times at less cost.

According to David Steeber, "After we realised the limitations of our existing software, the Delcam representative came in and actually helped us develop the code on our first part, proving to us that the software worked as he promised it would."

Five-axis machining has also simplified Accu-Tec's fixturing requirements. For the last major contracts it won, the company spent four months producing the fixtures. They made good parts but, with five-axis equipment, less fixtures would have been required that would have taken only three weeks to make.

Also, according to Glen Cotton, Accu-Tec CNC programmer, "The finish Accu-Tec achieves is better, eliminating the need for secondary operations or handwork, and improving our quality further by avoiding the possibility of human error on the part."

"The Delcam software also helps to keep the tool on the part," added Mr. Steeber. "This has helped us to reduce cycle times."

PowerMILL's integrated simulation is another tremendous advantage. "Previously, I would not see an error until it got to the machining floor," Mr. Cotton said. "Now, since the machinists know I'm using Delcam and can error-check before the part program goes to the floor, their confidence level in my programming has grown quite a bit. We completely plan the process before we take it to the shop, so we can support the shop floor should any questions arise."

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### FORDS Packaging Systems Strengthens Commitment to CoCreate

24 April 2007

CoCreate Software Inc. announced that FORDS Packaging Systems Ltd, Kempston, UK has renewed its commitment to the CoCreate OneSpace Suite with the purchase of CoCreate OneSpace Modeling and OneSpace Model Manager.

FORDS has used CoCreate's 2D software, CoCreate OneSpace Drafting, for many years. Over this time, FORDS has remained a world leader in specialized technology for capping and sealing machinery, offering fully automatic, continuous, tamper-evident sealing for a variety of containers. The company has manufactured and supplied more than 10,000 systems to factories in 76 countries and is the UK agent for business partners in Italy, Germany, and Switzerland.

To help maintain its leadership, FORDS recently expanded its software portfolio by adding CoCreate's OneSpace Modeling and OneSpace Model Manager with licenses for Model Manager's BOM add-on.

FORDS management demands a lot from its software. Its specialized technology must meet both legal regulations and accommodate a constant wave of new innovations in packaging -- a real challenge when development cycles can last as long as 6 - 9 months.

"We design the machine using packaging specifications given to us by our customer," says Peter Smith, Managing Director FORDS Packaging. "Very often, changes are made to the packaging necessitating machine design adjustments. We have to respond to these changes at any time in the development cycle."

With OneSpace Modeling, designers can make late changes, and then create virtual models so customers can see the product before FORDS produces the machine, giving FORDS a clear competitive advantage.

"We expect OneSpace Modeling to improve our design processes, produce more accurate designs and, in turn, cut errors that can occur before machine production," says Smith.

The company is confident CoCreate will meet these needs. FORDS renewed its commitment to CoCreate after 15 years of smooth operations with older CoCreate products as well as outstanding support and dedication from CoCreate's UK-based partner, Concurrent Systems Inc. (CSI -- http://www.csi-europe.com/).

For managing data, FORDS has begun using OneSpace Model Manager, including BOM functionality. "We're very satisfied with the in-house training we received from CSI and are now putting what we learned into practice," says Smith. A comprehensive 3D training is planned at the CSI facility in the near future.

"We are very happy to make this investment with a company that understands our business needs," says Smith.

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### Key Stream Hits Low-Power Goals with Sequence's PowerTheater

23 April 2007

Key Stream Corporation, designers of low-power wireless LAN chipsets, announced they are using Sequence Design's PowerTheater to reduce power "when it counts," early in the design cycle, at RTL.

"PowerTheater helps us understand and reduce power at RTL when it counts," said Key Stream senior engineer, Hiroyuki Sakurai. "We get immediate feedback to help us understand the power profile early, allowing the team to examine multiple 'what-if' scenarios to optimize the chip architecture for low power."

Key Stream is designing 802.11a/b/g wireless LAN chipsets, primarily for emerging portable applications where low-power requirements are critical. Sakurai related power-reduction results using PowerTheater for two blocks from a Key Stream design.

In the first block, the Key Stream design team achieved a 50 percent reduction in dynamic power with PowerTheater WattBots and linters, which automatically identified specific power-saving opportunities within the design. In the second example, Key Stream realized the advantages of RTL power analysis using the powerful debug environment of Power Theater over gate-level analysis: Specifically, RTL power analysis made it much simpler to examine tradeoffs between power and speed, a difficult and time-consuming challenge at gate level.

"PowerTheater shows us an easy-to-understand RTL tree, identifying the worst power offenders, so we can quickly spot which modules are a problem and then use WattBots to reduce power," Sakurai said. "And utilizing PowerTheater's peak and vector analysis makes it easy to find wasted power in the design."

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### MSC.Software's MD Solutions Selected by Honda R&D Co. Ltd Automobile R&D Center

23 April 2007

MSC.Software Corp. announced an agreement with Honda R&D Automobile Development center in which Honda adopted MSC.Software's MD Solutions (which include MD Nastran, MD Adams and MD Patran). This licensing agreement offers the car company the capability of further streamlined global product development.

"Choosing MD Solutions is significant validation that MSC.Software's large, enterprise customers see the benefit of using one, best-in-class platform instead of multiple, disparate solutions to increase engineering productivity," said Bill Weyand, chairman of the board and chief executive officer, MSC.Software Corporation. "We will continue to provide enterprises with a simple, fast path forward to broad deployment on a common platform, which can result in substantial time savings through: efficient use of an enterprise simulation data model, enhanced collaboration across product development organizations and streamlined simulation."

With MD Solutions, a manufacturer can provide its development engineers with flexible, shared access to a broad set of MSC.Software's simulations solutions, including structural and thermal simulation, motion and kinematics, control systems modeling and more.

"Companies continue to build and test physical prototypes for many reasons, including meeting regulatory requirements. Testing physical prototypes also addresses the complex interactions of behavior that occur in the real world. In contrast, much of the virtual prototyping and testing today addresses only specific aspects of performance and misses important dependencies when different software tools are used for different applications," said Reza Sadeghi, Chief Technologist, MSC.Software Corporation. "Our MD Solutions eliminate the need for multiple point solutions and provide Honda R&D with a best-in-class solution platform to build more complete virtual prototypes -- with more real-world results."

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### Nation's Largest Public Power Company -- Tennessee Valley Authority -- Powers Up With IBM's Software

23 April 2007

IBM announced that it has entered an agreement with Tennessee Valley Authority (TVA) to deploy new asset and service management technology for its power-generating sites that supply energy to nearly nine million consumers. The IBM Software is designed to help the TVA staff more efficiently operate and manage its fleet of power-generating plants.

TVA is the nation's largest public power company, with almost 35,000 megawatts of net winter dependable generating capacity. IBM's Maximo for Nuclear Power software, part of the company's asset and service management portfolio, will replace multiple legacy management systems and be used to track, maintain, manage and service assets at power generating and energy distribution sites across the TVA region using a single solution. Among the TVA locations to deploy the IBM Maximo technology include nuclear sites in Browns Ferry (Athens, AL), Sequoyah (Soddy-Daisy, TN), and Watts Bar (Spring City, TN).

IBM's Maximo for Nuclear Power solution, selected by TVA, is one of the company's industry-specific solutions. These tailored energy and power solutions are designed to help companies facilitate common processes, and ensure the toughest challenges. These include asset analysis, ensuring compliance, planning shutdowns, instilling integrity management, reducing manual intervention, addressing complex supply chain demands, facilitating continuous improvement, standardizing and sharing data, and improving organizational learning. IBM's Maximo solution is delivered on a service-oriented architecture and increases productivity, optimizes asset performance and service levels, reduces costs and enables asset-related sourcing and procurement across the entire spectrum of critical assets.

"Clients like Tennessee Valley Authority are using advanced technologies to meet the changing requirements in their industry. Using IBM Maximo's solutions, TVA can more efficiently manage the range of critical power-generating assets," said, Al Zollar, General Manager, Tivoli Software, IBM Software Group. "TVA, like many other customers, recognizes the benefits of consolidating multiple

systems. Maximo's functionality combined with the industry-specific capabilities allows customers to implement a single, enterprise level solution for all of their critical assets -- both operational and IT."

Additional information on IBM's Maximo can be found at http://www.maximo.com.

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### NX 5 CAD/CAM/CAE Software from UGS Provides "Greater Powers" to Manufacturing Industry in Greater China

20 April 2007

UGS Corp. revealed details of Version 5 of NX™ software and how it provides Greater Powers to manufacturing industry in the Greater China region at a press briefing held in Beijing.

NX 5 delivers breakthrough technologies and usability such as Design Freedom, Active Mockup and NX Your Way, offering more flexibility, coordination, and higher productivity. NX 5 integrates CAD/CAM/CAE into a unified, open environment. The latest release provides users a new intuitive user interface to develop products.

"This year marks the 20th anniversary of UGS' entrance into China," said Chuck Yuan, vice president and managing director of Greater China Operations for UGS. "In the past 20 years, UGS has devoted itself to facilitating product innovation by providing state-of-the-art software technologies, thus enabling Chinese enterprises to improve their competitiveness. The launch of NX 5 in Greater China further demonstrates the commitment and determination of UGS to be part of the technology evolution within the Chinese market, as it addresses ever growing needs of the market in Greater China and gives users greater powers to capture knowledge, re-use best practices and achieve standardization."

NX 5 digital product development system promotes technology innovations by increasing product and process information efficiency. With its unique knowledge-based engineering methods, NX can effectively promote technology innovations and increase the ability of Chinese companies to effectively leverage knowledge across their business. Drawn from extensive experience of serving customers from a wide variety of industries throughout the world, NX can help Chinese users play even more of a critical role in the global innovation network by improving the efficiency of the complete design process, as well as reduce costs and shorten time to market. .

"By using NX, our overall work efficiency is greatly augmented," said Yang Guotao, CIO of Beiqi Foton Motor Co. Ltd from China. "The consistency of the data of 3D model and the data of 2D drawing has improved from 50 percent to 90 percent, the design cycle was reduced by 40 percent, and processing cycle decreased by 30 percent, while the quality of the product greatly improved. NX knowledge-reuse function reduces initial product design deficiency by 35 percent."

In Greater China, NX has an extensive range of customers, covering aerospace and defense, automotive, high-tech electronics, machinery and consumer products. NX software also facilitates cooperation among

enterprises of Mainland China, Taiwan and Hong Kong, effectively improving general design and manufacturing capabilities in the region.

Hongdu Group was the first NX customer in China 20 years ago and maintains a good partnership with UGS. "Our engineers' design and numerical control manufacturing capabilities have improved greatly with the aid of UGS' NX and Teamcenter software," said Song Likang, CIO of Hongdu Group. "The value brought by the software is far beyond what we expected. They helped us increase design capacity by 30 percent, reduce manufacturing time by 30 percent. Seventy-five percent of our product data are managed by Teamcenter."

"Based on our many years of experience using NX CAD/CAM, we think its freedom and usability will help us achieve the maximum benefit of style modeling and manufacturing integration as we develop different cars," said Lousi Sheu, management office director, R&D Center, San Yang Industry Co., Ltd. from Taiwan. "Thus, we will be able to meet market needs faster."

"With the design solutions and powerful design capabilities of NX software, the efficiency of our product design has improved greatly," said Li Xincheng, engineering manager of TTI Group in Hong Kong. "Its extraordinary capability in coordination, flexible means of operation, and excellent capability in knowledge convergence has helped us improve our original design models and realize the reuse of product design knowledge. It is simple and easy to use, and thus significantly reduces the internal software training cycle."

UGS is very committed to the development of Chinese markets with increasing investment to facilitate the transfer of Chinese enterprises from "Made in China" to "Made with China". In terms of NX software, UGS has cooperated actively with Jilin University and Yancheng Institute of Technology in integrating Chinese technologies into NX software, with a view to further improve the product design and manufacturing processes.

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### Pemex Gas y Petroquímica Básica Strengthens and Improves Production Decision Making Process Implementing the SAP-xMII™ Solution

24 April 2007

Neoris, a Latin American leader in business and IT consulting with headquarters in Miami, Florida (USA), and SAP México y Centroamérica, a leader in business solutions, collaborated with Pemex Gas y Petroquímica Básica to strengthen and improve decision making in production processes, planning, and operation, implemented the Portal for Visualization and Integration of Processes (VIP) developed using SAP xMII™ (SAP xApp Manufacturing Integration and Intelligence).

Pemex Gas y Petroquímica Básica (Pemex Gas) is a subsidiary of Petróleos Mexicanos that processes, transports and sells natural gas, liquid hydrocarbons (such as liquefied gas of petroleum, or LP), and other basic petrochemical products, such as ethane, natural gasoline and sulphur.

Pemex Gas' Subdirectory of Production processes underground natural gas and manages 10 gas processing complexes, comprising 71 processing facilities, 131 units of auxiliary services, and 100 thousand tons in capacity of liquid storage. Control, analysis and evaluation of operations and company performance are supported by a large number of IT industrial systems, the same that are operated by specialized personnel. Such a situation made difficult the process of integration and analysis of information from several data sources of the organization, and this resulted in: high costs for training in the use of information from specialized IT tools; waste of time to recompile and integrate data and reports; problems with authorization and access to information. This damaged or delayed decision making concerning key processes of production including: production planning, operation, safety, product quality, performance management, only to name a few.

The Subdirectory of Production and the Competence Center of Pemex Gas analyzed the problem to find an adequate solution that allowed timely and reliable integration and availability of information for decision making concerning operations and business at different levels of the organization. After the analysis, the group of experts of both areas in Pemex Gas decided for the purchase of SAP xMII™ system, which was successfully implemented at the Subdirectory of Production by Neoris, the consulting and development company.

"The implementation of SAP xMII™ at the Subdirectory of Production in Pemex Gas was a very important achievement for our organization, since this allowed us to consolidate our name as reliable providers of services in the area of development and technological consulting, as well as reaffirmed our relationship as SAP´s strategic partner. SAP xMII™ allows daily or real time integration of data from SAP and non-SAP sources, as well as query or processing in Web environments," commented Claudio Muruzábal, Neoris´ CEO.

The VIP Portal developed during the implementation of SAP xMII™ is a tool that helps to integrate and combine information from different IT systems to those existing at the Subdirectory of Production at Pemex Gas, including: Advisor, Samplemanager, PIMS, PI, SISPA and SAP modules as PP-PI, CO, BW, EHS, PM and others.

"With the successful and seamless integration of PEMEX Gas y Petroquímica Básica information, SAP achieves the objective of helping clients to digitalize their business processes," commented José Duarte, President and General Manager of SAP for Latin America. "Working together with PEMEX was very important and the successful completion of such a project clearly indicates that SAP is the leader in developing solutions tailored to the needs of clients."

The screens (dashboards) available at the portal contain information about Production, Planning, Quality, Maintenance, Real Time Operation, Safety, Health, Environmental Protection and Performance Indicators that can be accessed on any PC. An innovation of the VIP project is the development of screens for PDA devices and cellular phones (MiniDashboards), through which information about operations may be viewed, including: monitoring variables in real time, sending and receiving operational alerts; data and production indexes; KPI´s; data on raw material and products quality, as well as maintenance information. Such information may be accessed through the company's intranet or Internet at any time and anywhere in the world.

"With the implementation of VIP Portal we are one of the leading companies in IT, since the easy access, speed, integration and performance levels of the portal have made this product one of the most important developments, and a world success case in terms of implementation of SAP xMII™ system. I would like to thank and recognize the excellent job made by Jesús García, Héctor Alvarez, Antonio Rodríguez and people at Subdirectory of Production, Competence Center, Neoris and SAP," said Manuel Chávez, Manager of Operating Control, Optimization and Safety of the Subdirectory of Production at Pemex Gas y Petroquímica Básica.

Some benefits of implementing SAP xMII™ include:

- Customized display: Dashboards and customized information for roles and users, ability of viewing data in different devices (PC, PDA, cell phones and others) and media (Internet and Intranet);

- Integration between SAP and production systems: All in a single application; people may monitor SAP and Plant Industrial Systems (data about: costs, production, quality, maintenance, safety and environment) information without using different applications;

- Mobility: Company personnel may access information from processing facilities, and receive operational alerts in their PDAs and cell phones. Therefore, the Subdirectory of Production has established world class standards of operation and safety, converting these mobile devices into tools for decision making and accident prevention.

**About Pemex Gas y Petroquímica Básica**

Pemex Gas y Petroquímica Básica is a company that processes 4,163 million cubic feet per day (MMpcd) of gas, from which 3,215 MMpcd are sour humid gas, and 948 MMpcd are sweet humid gas, as well as 97,7 thousand daily barrels of condensate, from which 90,3 Mbd are sour condensate and 7,4 Mbd are sweet condensate. The company produces an average of 3,432 million cubic feet per day (MMpcd) of dry natural gas, 221,5 thousand barrels per day (Mbd) of liquefied gas, 93 Mbd of natural gasoline, 129,7 Mbd of ethane, and 2,0 thousand tons per day of (Mtd) sulphur. It also transports a daily average of 4,000 MMpcd of natural gas and 182 Mbd of liquefied gas, and these products are sold to a total of 838 clients of natural gas, 768 clients of liquefied gas, and 80 clients of basic petrochemical products. Additionally, Pemex Gás y Petroquímica Básica exports an average of 78 Mbd of natural gasoline.

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***PTC Receives Multi-Year Multi-Million Dollar Order From 13 U.S. Federal Laboratories And Facilities***

25 April 2007

PTC announced that 13 federal laboratories and facilities, led by Lawrence Livermore National Laboratory, have broadened their use of PTC solutions to include Windchill, Arbortext, ProductView, Mathcad and Pro/ENGINEER.

Lawrence Livermore National Laboratory led discussions with PTC on behalf of the federal facilities to fashion this software purchase agreement, which will provide a comprehensive suite of PTC's solutions called the Product Development System (PDS). The PDS will be used to create detailed digital product information that allows customers to collaborate with distributed project teams, suppliers, and partners while controlling content and providing configuration management of product and services. The PTC PDS uniquely delivers all these capabilities, on an integral, Web-based architecture that supports today's distributed digital environment. Overall, the concept of an integral system helps increase efficiencies by reducing errors around version control, which streamlines the entire product development process.

"PTC is dedicated to providing technology solutions as well as process development strategies that consistently deliver value to long-term customers such as these prestigious institutions," said Dick Harrison, president and CEO, PTC. "Additionally, we understand the mission critical nature of the aerospace and defense industry and will continue to invest in comprehensive capabilities that will support its high standards in product development."

**About Lawrence Livermore National Laboratory**

Founded in 1952, Lawrence Livermore National Laboratory has a mission to ensure national security and to apply science and technology to the important issues of our time. Lawrence Livermore National Laboratory is managed by the University of California for the U.S. Department of Energy's National Nuclear Security Administration.

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### UGS Sponsored Race Teams Claim Victories in Three Racing Circuits with the Help of UGS PLM Technology

27 April 2007

UGS Corp. announced UGS-sponsored racing teams – whose cars are developed with the help of UGS® PLM technology – claimed victories in three racing circuits. Andretti Green Racing driver Tony Kanaan won the IndyCar Series® Indy Japan 300; Hendrick Motorsports driver Jeff Gordon won the NASCAR® NEXTEL Cup Series at Phoenix International Raceway; and KB Racing driver Greg Anderson won the NHRA SUMMITRACING.COM Nationals in Las Vegas.

Kanaan, the 2004 IndyCar Series champion, won the Indy Japan 300 to claim his eighth career IndyCar Series victory and tie for the fifth-most victories in IndyCar Series history. The win moved Kanaan into second place in the IndyCar Series driver championship, three points out of the lead.

Gordon, a four-time NEXTEL Cup Champion, won the NASCAR NEXTEL Cup Series at Phoenix and became the first driver to win from the pole at Phoenix. The win, Gordon's 76th career victory and his first at Phoenix, ties him for sixth place on the career victory list. This leaves only two NASCAR

NEXTEL Cup Series race tracks, Texas and Homestead, where Gordon has not posted a victory. Hendrick Motorsports drivers have now won five of the first eight points races this year.

Anderson, the three-time NHRA Pro Stock world champion, won the NHRA SUMMITRACING.COM Nationals in Las Vegas. This win, Anderson's third this season, combined with teammate Jason Line's win at the previous event gives KB Racing four of the first five races for the season.

"UGS congratulates the racing teams on their tremendous success so far this season, we are thrilled that our PLM technology is helping the race teams get ahead of the competition in such a dominating fashion," said Dave Shirk, executive vice president of Global Marketing for UGS. "The fact that UGS sponsored race teams continue to bring home victories week after week is proof that UGS' PLM technology is the best on the race track. UGS is helping our race teams win the same way we help our customers win, by providing the best PLM technology in the market."

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### Waterford County Council Wins BE Award

27 April 2007

Waterford County Council in Ireland has won a BE Award for integrating the measurement of energy usage during road construction and operation into road design and route selection. Other project participants included roads, energy, geotechnical and software experts from the Czech Republic, France, Ireland, the Netherlands, Portugal, Sweden, and the United Kingdom.

The goal was to develop customized software that can automatically calculate the amount of energy used during road construction and operation. The software would be employed at the preliminary design or route selection stage of new projects to ensure that only the most efficient construction methods and roadway designs are used. Five proposed road schemes were evaluated during the project using the newly developed software.

The software produced, JouleSAVE, was developed by Bentley Professional Services and works with Bentley MXROAD. It allows engineers to automatically quantify energy requirements for all phases of road construction and to evaluate the energy that will be used by vehicles traveling on the road. Different routes being considered can then be compared in terms of energy use.

Commenting on the team's decision to use Bentley MXROAD in its custom solution, Elizabeth Kennedy, executive engineer with Waterford County Council, said, "We considered Bentley MXROAD to be the most widely used road design software package internationally. Since the software developed through this project may have widespread use, it was decided that MXROAD would be the most appropriate software to use."

The energy used during road construction is obtained by breaking down the works into their constituent items. The energy values are then calculated for each item in terms of off-site materials (the energy required to produce materials such as aggregate, concrete, and bitumen) and on-site placement (the energy required to excavate, transport, and place materials). These values are then used by JouleSAVE to calculate the total energy required for the construction of each road design being considered.

When interfaced with the Swedish National Road and Transport Research Institute's VETO 2000 software, which estimates road traffic fuel consumption and exhaust emissions, JouleSAVE allows engineers to analyze how each route option impacts the fuel usage of vehicles traveling on the road over

a design lifetime. Forecasted traffic volumes and anticipated vehicle types are then input into the program.

Major aspects of the road design that impact vehicles' fuel usage – such as horizontal or vertical geometry – are analyzed so that fuel usage over the road's lifetime can be calculated for each route option. This is achieved by importing the geometric design data via JouleSAVE into the VETO program.

Two types of attribute data are input to make the appropriate analysis: overall data and sectional data. The overall data will give details of the vehicle category, macro texture of the road, and the road conditions. The sectional data will give details of the speed, speed limit, traffic volumes, stop time, super-elevation, and road width for the various segments of the road.

"The software produced for this project enabled us to quickly, easily, and reliably calculate the energy used during construction and operation of each of our road designs, which allowed us to compare them as part of the route selection process," said Kennedy. On average, the project determined that energy used by the vehicles on the roads over a 20-year period is 18 times greater than the energy used in the road construction.

For more information on Waterford County Council's winning project and all of the other BE Award projects, visit http://www.be.org/awards. For more information on the Bentley products used in this project, visit http://www.bentley.com/civil.

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### WorkNC helps to Shorten Lead Times in the Bentley Motors Styling Studio

23 April 2007


Bentley Motors has been dedicated to the design, engineering and crafting of high performance cars since 1919. Owned by the Volkswagen Group since 1998, the company's Crewe headquarters have received massive investment, with a new and successful racing programme and the design and launch of the new Continental range.


Bentley's Styling Studio plays a crucial role in the pace of development for the its new cars, and it selected WorkNC to machine internal and external clay styling models as part of the transition from manual methods. Kevin Baker, Design Model Manager for Bentley Motors, said, "We have four ITP machines with CMM and machining capability which have the capacity to machine both sides of four full sized vehicles simultaneously. We chose WorkNC for its ease of use and flexibility."


During the development phase of a new vehicle, two or three third scale models may be cut through WorkNC from imported IGES CAD data. Designers will refine these by hand until they are satisfied with the aesthetics. The models are then reviewed so that a choice can be made for the manufacture of a full sized car and, ultimately, to achieve styling release. Cloud scanning of the chosen design records the finished shape which can then be imported into WorkNC as an STL file for remanufacture, or into the company's CAD systems, allowing the true shape of the vehicle to be captured. STL files of half the vehicle can be around 75Mb, while IGES files for the full vehicle can be 80Mb. Kevin Baker added, "Once the model is loaded, manipulation in WorkNC is very fast, making it easy to rotate pan and zoom the large amount of data we import."

For components such as road wheels, lamps and fascias the company also has a fifth ITP machine programmed by WorkNC. This can machine harder materials such as model board, enabling prototypes and prototype tooling to be manufactured to prove out the design.

When building a model, the Styling Studio starts with a base shape in foam, which is undercut, using WorkNC, by about 30mm. Clay is then built up to above the finished surface level and, once this has set, a grid cut is performed with a 50 to 100mm stepover to ensure sufficient material has been added. The next roughing pass with a 12mm ball cutter and 8mm stepover uses WorkNC's Planar Finishing cycle and leaves 5mm of material on. Finally, the finishing toolpath, again using Planar Finishing uses a 10mm ball cutter with 2mm stepover. At each stage, users can quickly and simply modify or restrict the cutter trajectory with WorkNC's graphical toolpath editing. Kevin Baker said, "The WorkNC calculation times are really fast, for one side of a complete car it only takes about 15 minutes to create a day's worth of machining."

Using digital methods has some very significant advantages for Bentley as it can carry out more design iterations within a shorter time. Prior to using WorkNC and the ITP machines, shaping a full sized model would take four to six people three weeks. The same task can now be completed by one person in one week. Additionally, shaped pockets can be reliably machined into the finished and painted model, ready to accept prototype fittings such as lamps and door handles. Finally, the symmetry of the car is guaranteed by using the same model data to cut both sides of the vehicle, reducing the time to balance surfaces by half. Kevin Baker added, "Four modellers in the Styling Studio use the two WorkNC seats. Its ease of use makes their tasks much simpler and they have absolute confidence in the results it produces."

Model production times have been greatly reduced at Bentley. Furthermore, using the new techniques has introduced a more structured approach to vehicle development, making it easier to interpret CAD images by comparing them with a physical model, which in turn reduces the number of design iterations. Kevin Baker concluded, "WorkNC is a very important element in this new process, helping us to reduce timescales and optimize our designs."

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### YORK Wins BE Award; Uses 3D Modeling to Reduce Engineering Costs and Improve Deliverables, Project Timelines, and Client Satisfaction

24 April 2007

YORK (Johnson Controls Inc.), a leading provider of HVAC and refrigeration products and services headquartered in Milwaukee, Wisconsin, has won a BE Award for its Zueitina Propane Refrigeration System project. The award category was "Plant Supply Chain Integration."

The Zueitina Propane Refrigeration System is a combined atmospheric storage refrigeration system for propane and butane. It consists of two individually fabricated skids that were loaded onto flatbed trucks and shipped to the client, Zueitina LPG Terminal, in Libya. There, they were bolted together and installed.

The goal of the project was a design that achieved smooth integration with the existing system while conforming to required custom and industry codes and standards. YORK had to review the original 2D drawings, specifications, documentation, and photos to construct the necessary virtual 3D models of the two new packages.

Said Hugh Kutz, manager of process systems engineering at YORK, "Bentley software imposes a design discipline that results in more accurate drawings and bills of materials. It allows us to spend more time designing equipment rather than projecting 2D views with limited detail. Our manufacturing benefits from the improved procurement and visualization that comes with design accuracy, detail, and automation.

"In an ever-changing world, we must find ways to improve our process to remain competitive and profitable. With Bentley software, YORK hopes to gain a competitive edge in the design process and break new ground in our type of business. This initiative has helped reduce our engineering costs and improve our deliverables, project timelines, and, ultimately, client satisfaction."

The project involved a driveline package and a vessel package bolted together in the final stages of assembly to complete the piping between them. The propane driveline compressor skid consisted of a YORK M626A6 centrifugal compressor, speed increaser, and an 800-horsepower induction motor. This skid also contained the lube oil filters, pumps, and cooler modules for each of the three driveline components. Two suction knockout drums were located on this skid to remove any remaining liquid from the returning propane vapor stream prior to reentering the compressor.

The second skid, a propane liquid recovery system, consisted of a seawater-cooled propane condenser, a butane chiller, and a propane receiver/economizer. In addition, it included all the necessary control valves to maintain system parameters.

Designers for the project used Bentley AutoPLANT to create 3D models of all the components on each skid. Engineers and designers then used Bentley visualization technologies to visually inspect the model for pull clearances, maintenance areas, and interferences prior to the job being built. This enabled YORK to run piping more efficiently and maximize maintenance areas.

Using Bentley AutoPLANT, the bills of materials (BOMs) were pulled directly from the database underlying the 3D model. The BOMs were then printed out for the shop and uploaded electronically into YORK's material resource planning system for ordering. This removed many opportunities for human error by forcing a design regimen that facilitated a precise inventory of parts needed to build the equipment.

For more information on YORK's winning project and all of the other BE Award projects, visit http://www.be.org/awards. For more information on the Bentley products used in this project, visit http://www.bentley.com/plant.

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# Product News

### AutoVue Obtains Works With Windows Vista Logo Certification

23 April 2007

Cimmetry Systems, an Agile Software company, announced that its flagship product, AutoVue, has obtained Microsoft's Works with Vista Logo Certification, attesting AutoVue's compatibility and reliability with the new Vista operating system.

AutoVue delivers native document viewing, markup, and collaboration for hundreds of document formats, including 2D/3D CAD, EDA, Office and image documents. By doing so, AutoVue extends Vista's ability to find and use information beyond traditional Office formats, and allows users to view, review and share documents without requiring authoring applications or undergoing costly and error-prone file conversions.

"Microsoft is pleased that Cimmetry has earned the Works with Windows Vista software logo for their AutoVue application," said Dave Wascha, Director of Windows Client Partner Marketing Group at Microsoft Corp.

"This highlights Cimmetry's commitment to providing its customers with applications that are fully compatible with Windows Vista and deliver an improved experience on the new OS."

The Works with Vista Logo Certification is another milestone in Cimmetry's Microsoft strategy. AutoVue's compatibility with the newest operating system, the support for the latest versions of Office formats, as well as integrations with Microsoft's cutting-edge SharePoint technology are all steps in Cimmetry's long-standing strategy to provide Microsoft users with innovative and comprehensive enterprise visualization solutions.

AutoVue is available in both a Desktop and Web Edition and can be purchased from Cimmetry or through a global network of Value Added Resellers. For sales inquiries or to locate a local VAR visit our web site or call +1-514-735-3219 http://www.cimmetry.com/partners_vars-lookup.html.

For additional information about AutoVue, visit our Website at http://www.cimmetry.com.

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### BearingPoint Launches SAP Product Lifecycle Management Solution at SAPPHIRE

24 April 2007

BearingPoint, Inc. previewed a new product lifecycle management (PLM) solution at SAPPHIRE '07 in Atlanta this week. The SAP-powered solution is designed to facilitate the discovery-to-launch process,

provide a governance model that assists with management and execution of the product portfolio, and incorporate technologies that offer visibility and discipline to manage the process.

"The challenge with product development is not that organizations are bereft of ideas that can potentially turn into blockbusters," said Harin Shetty, managing director at BearingPoint. "Rather, it is developing a process that can harness an organization's creativity. BearingPoint offers a differentiated, integrated solution based our understanding of the various stakeholder owner and phase requirements in taking a product to market excellence."

The BearingPoint PLM solution offers a better alternative to siloed or point models because it connects the right technology to integrate roles, systems and processes for managing the life of a product from idea to obsolescence.

"We help our clients understand where they are in a PLM maturity model, and better align their PLM strategies to enterprise goals with a host of implementation alternatives," said Shetty.

Shetty and SC Johnson program director, SAP PLM, Gene Holtz will discuss PLM in detail during the "A Real-Life Case Study of a Global SAP PLM Implementation" session at 4 p.m. on Tuesday, April 24, in the Consumer Industries Theater. An executive debrief and networking reception in BearingPoint's Suite B218, located in Building B, Level 2, will follow the presentation.

Additional information on the BearingPoint PLM solution can be found in the recently published BearingPoint white paper, "The perfect launch: A new approach to product life cycle management for consumer goods companies," which is available at http://www.bearingpoint.com/sap.

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### CADD Edge, Leading SolidWorks® Reseller, to Market SensAble Technologies FreeForm® Modeling™ Solutions

25 April 2007

SensAble Technologies, Inc. announced that it has signed CADD Edge, Inc., of Westborough, MA, as a reseller partner for its FreeForm Modeling products throughout New York, New Jersey and the six New England states. The FreeForm Modeling systems provide product designers with a fast, creative and intuitive 3D design environment which allows them to create models that are compatible with traditional computer aided design and manufacturing (CAD/CAM) solutions.

"SensAble's tools allow us to offer our clients a solution that will enhance their designers' creativity and streamline the design process. Many of our clients already own the FreeForm Modeling solution, in industries such as consumer goods, footwear, industrial design and medical – it's an easy-to-use tool that can reduce the complexity of working with scan data, both medical and consumer based origins, and offers anyone designing complex, organic designs a complementary design solution. For those companies with unique designs that necessitate the combination of organic designs with parametric

modeling, this tool can provide a streamlined path from design to manufacturing," stated Tim Preston, Vice President of CADD Edge. "It's an exciting tool that extends the creativity options available to designers."

"Customers are looking for solution providers like CADD Edge, that can help them find and implement the right solutions all the way through the product design process, from the designer to the manufacturer," stated Mark Tatkow, Vice President of Sales at SensAble. "The FreeForm modeling systems are helping companies in all industries, from footwear designers to physicians, and from toy companies to home decor manufacturers -- get products to market faster and more cost-effectively. We are confident that CADD Edge's industry expertise, product line and consultative sales approach will make them a very successful reseller."

The FreeForm Modeling solutions are unique in the industry, and utilize a patented haptic interface which allows designers to feel 'digital clay,' as they model and sculpt their products in three dimensions. Designed with tools that designers and modelers find intuitive, the FreeForm systems enable users to quickly be productive and achieve greater design flexibility, especially in creating organic shapes, than with traditional CAD systems. The systems' interoperability allows it to become an integral part of a company's workflow—whether product designs are started with a sketch, a scan or an existing file and whether they are output for rapid prototyping or to a traditional CAD/CAM system for downstream engineering or manufacturing.

Thousands of consumer and industrial products are being designed with FreeForm Modeling systems worldwide. Customers include Fortune 100 companies, independent designers, international manufacturers, universities and medical and dental professionals, among others.

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### Cadence Collaborates With IBM, Samsung and Chartered to Deliver 65-NM Reference Flow

23 April 2007

Cadence Design Systems, Inc. announced immediate availability of the 65-nanometer Common Power Format (CPF) enabled reference flow targeting the Common Platform™ technology. This reference flow is the next step in the ongoing collaboration between Cadence® and the Common Platform coalition comprised of IBM, Chartered Semiconductor Manufacturing and Samsung.

Cadence worked closely with the Common Platform technology partners to develop this 65-nanometer flow. It is based on the Cadence digital IC design platform including Encounter® Timing System and CPF to accelerate time to market for low-power system-on-chip (SoC) designs.

"Cadence has worked actively with the Common Platform technology manufacturers to develop this reference flow that enhances our 65-nanometer design enablement portfolio," said Steve Longoria, vice president of Semiconductor Technology Platform for IBM Global Engineering Solutions. "The Common

Platform technology companies worked with Cadence engineers to deliver this 65-nanometer reference flow using the ARM-Metro libraries and the Cadence Encounter platform. The result is a solution that will bring advanced low-power technology to designers challenged with issues such as battery life and energy conservation in mobile devices and other consumer applications."

This RTL-to-GDSII reference flow is based on the Cadence Encounter digital IC design platform and enables higher productivity and improved quality of silicon (QoS). The flow addresses critical low-power design challenges, from chip prototyping through power, timing and area optimization and is targeted for wireless, wireline and consumer applications.

"Collaborating with Cadence is an important part of Samsung's strategy to enable the design chain to bring advanced low-power design methodologies to our foundry customers," said Dr. Ben Suh, vice president, ASIC & Foundry Business Development, System LSI Division at Samsung Electronics. "This low-power reference flow, targeted to the 65-nanometer LP process, accelerates the time to volume for foundry customers bringing new designs to Samsung for manufacturing."

"We recognize that customers today want solutions to help address power concerns and they want to ensure they have a choice in their solutions. In this case, we are working with Cadence and our Common Platform partners to deliver solutions that accelerate designs to silicon while offering customers the flexibility in sourcing options through the collaborative strategy of the Common Platform," said Kevin Meyer, vice president of worldwide marketing and platform alliances at Chartered. "The delivery of this 65-nanometer reference flow makes available an innovative low-power design solution for Chartered customers."

The flow incorporates several innovative technologies in the Encounter platform as well as the Cadence Logic Design Team Solution, including Cadence Encounter RTL Compiler with global synthesis technology, the Cadence SoC Encounter? RTL-to-GDSII system, Cadence Encounter Test and Cadence Encounter Conformal® Low-Power. Other Cadence components include VoltageStorm® power analysis, and Encounter Timing System using the effective current source model (ECSM) to enable designers to reduce time to volume for low-power consumer applications. ARM® Metro™ low-power products, part of its family of Artisan® physical IP, are used for the flow development.

"ARM and Cadence continue our long-term relationship with ARM Metro low-power IP being an integral component of the reference flow targeting the Common Platform technology," said Tom Lantzsch, vice president of marketing, Physical IP, ARM. "Working with the Common Platform technology partners and Cadence provides manufacturing flexibility along with advanced design solutions to accelerate time to market for our mutual customers."

"Our design chain collaboration with leaders of the Common Platform is what makes new technology like the CPF-based Cadence Low Power Solution a reality," said Jan Willis, senior vice president, Industry Alliances, at Cadence. "This 65-nanometer low-power reference flow provides an integrated methodology for customers to deliver low-power products in volume using CPF with the Common Platform technology."

**Availability**

This 65-nanometer low-power, yield-aware design reference flow is available immediately by sending an email request to common_platform_65LP@cadence.com. This reference flow kit contains a reference design, documentation and scripts to run the reference flow.

**Web Seminar**

On Wednesday, June 13, 2007, at 4 pm (PDT), Cadence, Chartered, IBM and Samsung will hold a free Webinar on advanced low-power design techniques used in this reference flow. For more information about registering for this event, go to http://www.cadence.com/webinars/cdn_65nm_lowpower/index.aspx.

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### Cadence Encounter Platform Delivers Leading Low-Power And DFM Features For 65-nm Design

23 April 2007

Cadence Design Systems, Inc. unveiled its latest software version of Cadence Encounter® digital IC design platform with features including chip optimization, mixed-signal design support for very large 65nm-and-below designs, diagonal routing using the Encounter X Interconnect Option, and previously-announced support for Si2's Common Power Format (CPF) 1.0-enabled low-power design. Available in L, XL and GXL offerings, the new platform provides greater ease of use, shorter design time and improved performance for advanced semiconductor design.

"The latest release of Encounter platform represents an important development to the members of STARC, because it addresses, in a comprehensive fashion, the challenges inherent in designing for low power and manufacturing, with high productivity," said Nubuyuki Nishiguchi, vice president and general manager of STARC. "This integrated, front-to-back approach creates significant value to leading-edge designers."

A key feature of the latest Encounter platform release is support of the Cadence Low-Power Solution, based on Si2's CPF 1.0 standard. The Cadence Low-Power Solution offers a complete flow across logic design, verification, and implementation. CPF is an industry standard format for specifying power-saving techniques throughout the design process—enabling teams to share and reuse low-power intelligence.

In addition, the new release of the Encounter platform provides unparalleled design for manufacturing (DFM) support, yield optimization, lithography-aware routing, mixed-signal design using new bus routing capabilities, and critical path simulation using the Virtuoso® UltraSim Full-chip Simulator. The platform also features new power-aware automatic macro placement capability and support for simultaneous multi-mode and multi-corner timing analysis and optimization. The Encounter X

Interconnect Option delivers higher quality of silicon (area, power, performance requirements) and cost-savings.

"We continue to make significant improvements in Encounter platform to lead the industry in advanced low power and 45/65nm designs. The latest developments allow direct benefits to most advanced IC designs," said Dr. Chi-Ping Hsu, corporate vice president, IC Digital and Power Forward at Cadence. "This release packs many major breakthroughs—holistic advanced low power, DFM, Encounter X Interconnect Option and mixed-signal design—into a single highly integrated design environment."

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### CEI Licenses Its ABAQUS ODB API Reader to Red Cedar Technology

26 April 2007

Computational Engineering International (CEI) announced an agreement to license its ABAQUS ODB API Reader to East Lansing, M.I.-based Red Cedar Technology. The agreement will make it possible for Red Cedar Technology to incorporate the reader into its HEEDS application, a program which interfaces with all popular computer-aided engineering (CAE) applications to automate the design optimization process.

CEI's ABAQUS ODB API Reader will allow Red Cedar Technology to enhance its HEEDS program by creating a more specialized interface to ABAQUS. Red Cedar Technology is currently creating what it calls an ABAQUS portal with the technology, which will make HEEDS faster and more efficient when working with ABAQUS output files. The company is also developing portals for a variety of other CAE applications and has turned to CEI for a number of interfaces to carry out the project.

"To make certain that users of our own products, such as EnSight, can easily work with a wide variety of file formats, CEI has made a significant investment in developing readers for ABAQUS and a number of other CAE applications," said Darin McKinnis, CEI's vice president of marketing and sales. "We're very pleased with the agreement to license our ABAQUS Reader to Red Cedar Technology, because not only is it a show in confidence in the interfaces we've developed, but it allows our technology to serve the greater CAE community in new ways."

Commenting on Red Cedar Technology's move to license the interface, CEO Ron Averill said, "We chose to license the ABAQUS Reader and others from CEI because they already have a rather complete set of interfaces to the major CAE codes. Partnering with CEI has made it possible for us to offer a large suite of robust and industry-tested interfaces quickly, without the investment of time and effort that would be required to develop and support them ourselves."

For more information about EnSight or any of CEI's products, visit http://www.ensight.com/. To learn more about Red Cedar Technology or its HEEDS application, go to http://www.redcedartech.com/.

**About Red Cedar Technology**

Red Cedar Technology accelerates the engineering design process HEEDS software. It interfaces with all popular CAE applications to automate and expedite the design process. HEEDS intelligently conducts a broad and efficient search for the optimal design. The company is based in East Lansing, Mich., and has marketing and sales offices around the world.

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**Enhanced ERP Solution from Infor Helps Process Manufacturers Minimize Total Cost to Serve and Improve Profitability**

25 April 2007

Infor announced new enhancements to the latest version of Infor ERP Adage, a platform-independent ERP solution designed for process manufacturers. The latest version includes a new graphical user interface, more functionality for order to cash and expanded integration capabilities with external systems. These new features build upon Infor ERP Adage's strength as a complete end-to-end offering that minimizes the total cost to serve, increases operational efficiencies and improves profitability.

"Our supply chain is growing more complex every day as a result of increasing competition and globalization," said Denise Zephier, Information Manager, Master Chemical. "We are expanding our presence in Asia and require software which will provide us logistics capabilities and the ability to overcome language barriers in the future. Infor has been very customer-focused and has provided us with the service and support we need."

Infor ERP Adage is a feature-rich ERP platform for batch process manufacturers with a particular focus on food and beverage, specialty chemicals, over-the-counter pharmaceuticals, biotechnology, and consumer packaged goods. Adage supports local regulatory, compliance, language and currency requirements for global businesses with multiple facilities or wholly-owned subsidiaries.

"Process manufacturers face pressures from globalization, regulatory compliance complexity and the need for more effective quality management," said Infor Vice President of Industry & Product Marketing, Mike Frichol. "With these latest enhancements, Adage continues to ensure compliance, collaboration and information transparency across extended supply chains -- a necessity for businesses seeking to improve the flow of goods, eliminate waste and gain efficiencies."

Improving the order to cash process is a strategic priority for many companies because it can help minimize the cost to serve customers, total cost of quality and compliance. The order to cash process impacts multiple departments including sales, production and finance. Adage's enhancements, such as advanced pricing deductions and consolidated invoicing, enable company resources to complete their part of the process error-free and then transfer accurate information across functional boundaries.

Adage 5.0 includes seamless integration with complementary applications such as product lifecycle management, enterprise asset management and warehouse management, allowing companies to easily develop and introduce new products with higher margins and manage complex inventory and

manufacturing requirements. This interoperability extends the value of a business's IT investment and lowers total cost of ownership – a key benefit for companies with few or no IT resources.

A new, graphical user interface is highly customizable based on the role of the user, allowing employees to be more efficient and the company to benefit from a more productive workforce. Adage's intuitive interface means that training costs are minimized and users are up and running in record time.

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### ESI Group Visual Environment Optimized for Intel's Platforms Offers Premium Performance in Simulation; A Data Processing Time Up to 2,79 times faster for huge crash models (10 million elements) on Visual Environment v3.0 optimized on latest multi-core Intel Xeon processor

24 April 2007

ESI Group and Intel announced the results of their technological collaboration. R&D teams at ESI Group and Intel's engineers have been working to optimize the Visual Environment v3.0 to take full advantage of Intel's multi-core processors by using Intel's software tools (Intel® VTune, Intel® Thread Checker…). This achievement represents a significant competitive advantage in terms of computing performance, cost efficiency, size of the crash model, and more accurate simulations in order to totally answer customers' needs and future performance requirements.

ESI Group's integrated solution is a engineering simulation environment based on openness and extended interoperability with tier CAE and ESI Group's solvers. Today the industry needs to move away from the traditional trial-and-error methodology to embrace Simulation Based Design. It will help companies to innovate faster by reducing the need for real prototypes through collaborative engineering.

This sharing of resources between the two companies has produced a significant step forward in realistic simulations using a minimum of 10 million elements for crash simulation. The first results give the following advantages and benefits: up to 250% performance boost in data processing from VE 2.5 to the VE 3.0 optimized on the latest dual-core Intel® Xeon® Processor 5100 Series and more than 4 GB allocated in memory using Windows XP 64bit on latest multi-core Intel Xeon processor. These outstanding scores produce more accurate simulations mainly due to a refined model which allows investigating critical zones, such as made by a German car maker using the multi scale coupling option of PAM-CRASH 2G to introduce a detailed information result from casting into Crash model simulation.

"Intel is very pleased that through our collaboration, ESI Group has used our software development tools to optimize the version 3.0 of Visual Environment to provide new level of performance on our Dual-Core Intel® Xeon® Processor 5100 Series" says Stephane Negre, Intel EMEA Global Software Relations Manager, "ESI Group's customers can now load models of million elements. We will carry on working with ESI Group in developing new platforms to anticipate the future customer's needs."

"This partnership with INTEL enables ESI Group to overcome the environment limits opening some new solvers opportunity to deliver realistic simulation. Up to now our customers were obliged to build compute models dedicated to several types of crash simulation. Today, thanks to these excellent results, the engineers can use a unique crash model that covers the crash and safety simulation domain as a whole." declares Jean-Louis Duval, ESI Group Worldwide Business Manager for Enterprise Integrated Solutions.

The next step will be to take full advantage of Intel multi core technology in order to provide a multi-thread environment to deliver the best in-class performance solution. This collaboration between ESI Group and Intel has definitely fully contributed to reaching new levels of performance to help end-users to meet their needs.

For more information, please contact either an ESI Group representative or visit http://www.esi-group.com/

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### GibbsCAM Advanced 3-Axis Capabilities Announced

23 April 2007

Gibbs and Associates, developer of GibbsCAM software for programming CNC machine tools, announced that a suite of 3-axis enhancements for GibbsCAM will be released as part of GibbsCAM 2008. These 3-axis enhancements will further extend GibbsCAM's existing machining capability and provide the user with a complete range of milling functionality with support for high speed machining.

"As we expand on GibbsCAM's world class production machining capabilities, we provide more control and flexibility in toolpath generation with integral high speed machining support," states Bill Gibbs, founder and president of Gibbs and Associates. "The new 3-axis surface machining capabilities that we will be releasing continues in the tradition of GibbsCAM's unique blend of ease-of-use and powerful functionality; a combination that can't be beaten in production machining."

The new advanced 3-axis functionality introduces a wide variety of new capabilities, such as 3D rest milling which focuses machining only on remaining material to be removed, minimizing air cutting and significantly reducing cutting time. Multiple containment areas and avoidance areas allow precise control of toolpath to efficiently control the machining process. The user can also specify that the toolpath generated by the new 3-axis functionality has no sharp corners, optimized for high-speed machining. New machining techniques are also included that consider the slope of the surfaces being machined resulting in toolpath with a true constant step over, minimizing tool wear, improving surface finish, and cutting the part faster.

"One of the major advantages of these 3-axis enhancements is that they produce beautiful tool path," explains Mr. Gibbs. "The quality of the toolpath they generate is really very good; it is very smooth, very accurate, doesn't gouge, is connected up very nicely, minimizes retracts and extra entries/exits, has

tangential blends on and off the part, spirals and ramps in and out of the material, and doesn't have vertical wall sensitivities. High quality toolpath like this is very important to machinists doing precision, high-quality machining."

GibbsCAM 2008 is expected to be released later this year. For more information about GibbsCAM, send an inquiry to info@GibbsCAM.com. information about GibbsCAM is also available at the company's website, http://www.gibbscam.com/.

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**Invensys and Centric Software Announce Joint Validation Management Application for Life Sciences Sector**

24 April 2007

Invensys Process Systems and Centric Software announced the availability of an application that coordinates the management of the regulated validation process in the medical device, biotechnology, and pharmaceutical industries.

In partnership with Centric Software, Invensys Validation Technologies developed the validation application on Centric's Product Intelligence software. This application enables life science companies to automate the documentation of validation processes to help reduce the time required to obtain FDA validation for new process plants. The critical validation process documents all evidence that a system is performing according to exact specifications and that all related equipment is implemented and tested correctly.

"As consultants focused on the life sciences sector, our goal is to help our customers use technology to create efficiencies in the compliance process and speed new products to market," said Mike Howden, director global business systems solutions, Invensys Validation Technologies. "Because Centric's Product Intelligence technology tracks the history of documents from many sources right out-of-the-box, we saw that the technology could also be used to give our clients an automated solution for validation processes."

"Using their deep industry knowledge and expertise in technology and compliance, Invensys Validation Technologies has created a truly unique automated solution for life sciences companies that will alleviate the pressure from compliance with validation regulations," said Chris Groves, chief executive officer, Centric Software. "We look forward to working with Invensys to apply the power of Product Intelligence to a critical industry challenge."

Centric's Product Intelligence applications deliver complete visibility into the live product, project, and financial information pulled from multiple systems, combined with information entered directly into the applications. The project execution capabilities coordinate the project, process, and documentation needs of distributed project teams.

Invensys Validation Technologies provides regulatory compliant solutions, products and services for the pharmaceutical, biotechnology, cosmetic, contract and device industries, providing regulatory-compliant process automation, legacy system migration, system integration, collaborative engineering, manufacturing, and other solutions for the supply chain.

For more information on this application, readers can contact Invensys Validation Technologies at 888-879-7307 or Centric Software at 888-537-2639.

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### Invention Machine Announces Availability of Goldfire Innovator™ 4.0

24 April 2007

Invention Machine Corporation announced the latest version of its Goldfire Innovator™ software. Goldfire Innovator 4.0 includes significant enhancements to Invention Machine's semantic search technology, and is the first product to enable closed-loop design for innovation excellence by integrating design, quality planning and defect analysis, dramatically improving product quality, performance, and time to market for leading manufacturers around the world.

"Enterprises worldwide are under increasing pressure to deliver better-performing, higher-quality and more differentiated product offerings – faster – in order to sustain competitive advantage," said Mark E. Atkins, Chairman, President and CEO of Invention Machine. "Using Goldfire Innovator 4.0, manufacturers are able to raise returns on their Research and Development investments and improve both top- and bottom-line corporate performance by stimulating creative idea generation, increasing innovation and accelerating time-to-market of higher quality and more competitively differentiated products."

Goldfire Innovator 4.0 builds upon Invention Machine's Knowledge Enabled Innovation platform – first launched in early 2004 – and includes several key enhancements that deliver on the promise of closed-loop design. Goldfire Innovator is already being used by leading manufacturers across automotive, aerospace and defense, consumer goods, electronics, life sciences, industrial manufacturing and oil and chemicals, and this latest release will spur even greater improvements to their products and engineering processes.

## Goldfire 4.0 Highlights

### Automated Parts and Functions Finder

Goldfire Innovator 4.0 brings a new level of automation to the process of system analysis and understanding with the introduction of a patent-pending semantic technology that identifies and extracts mereological hierarchies. Mereology, the science of whole-part relationships, is fundamental to understanding any system, enabling the identification of functional relationships between entities (e.g. entity A performs what action on entity B, and what is the impact of that action).

Leveraging a corporation's content knowledge bases, as well as external data from the web and patents, Goldfire Innovator can further automate system analyses and modeling processes by recommending components known to be "part-of" a system as well as the functions and their associated parameters known to occur between a system's components. Acting like a virtual model library, Goldfire Innovator supplements a user's personal knowledge with the experience explicitly recorded in documents and thereby greatly enhances the value of design and analysis tasks while reducing the time and expertise required.

**Quality-Driven Value Engineering Analysis (VEA) Design**

With the introduction of quality-driven Value Engineering Analysis design, Goldfire Innovator 4.0 enables closed-loop design for innovation excellence. Building upon Goldfire Innovator's existing support for proven engineering processes such as Failure Modes Effects & Analysis (FMEA) and Root Cause Analysis (RCA), release 4.0 closes the design loop by bringing quality analysis data into the design process. In this way, Goldfire Innovator improves product and process quality by tying the inherent 'value' of a design to the quality of the system.

**Cross-Language Semantic Search**

The 4.0 release of Goldfire Innovator provides a powerful cross-language search capability, enabling users to submit queries in English, French, German and/or Japanese and then identify targeted, semantically relevant answers across any of the four supported languages. This cross-language search capability builds upon Goldfire Innovator's strong foundation in semantic extraction. Where traditional search technologies provide vast quantities of inaccurate and irrelevant results, Goldfire Innovator's semantic technology is able to locate key concepts with pinpoint precision. With Goldfire Innovator's cross-language search, multi-national companies can now promote greater collaboration by accessing and sharing technical and patent content across languages, better leveraging knowledge and 'lessons learned' across internal design notes, customer service records, worldwide patent data and industry literature.

Goldfire Innovator 4.0 is available immediately. For more information, please contact Invention Machine at info@invention-machine.com, 1-617-305-9250 or, in the US and Canada, at 1-800-595-5500.

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*Invention Machine Announces Master Distribution; Partnership with Cybernet Systems*

23 April 2007

Invention Machine Corporation announced a master distribution agreement with Cybernet Systems Co., Ltd., a leading supplier of Computer Aided Engineering (CAE) software to manufacturing organizations in Japan.

Headquartered in Tokyo, Japan, Cybernet Systems distributes an array of CAE software, covering a comprehensive range of fields such as control and DSP/communication system design, electronic design

automation, optical design, structural analysis, fluid dynamic analysis, and design optimization, to the Japanese market. Under the new agreement, Cybernet Systems will market, resell and support Invention Machine's Goldfire Innovator™ and Goldfire Researcher™ software to Japan's leading appliance, high-tech, automotive, consumer electronics, life sciences and industrial manufacturers. A leading provider of solutions that accelerate product innovation, Invention Machine's software is already in use by more than 1200 customers worldwide including leading Japanese manufacturers SONY, Omron Corporation, Konica Minolta Holdings, NEC, Matsushita Electrical Industrial Co., JFE Steel, Sanyo Electric Co., Hitachi and Toshiba Medical Systems Corporation. .

"Manufacturing organizations around the world are placing a greater emphasis on innovation, fueling strong demand for Invention Machine's unique knowledge-enabled innovation solutions," said Mark E. Atkins, Chairman, President and CEO of Invention Machine. "The Japanese market represents a tremendous growth opportunity, and having a strategic and experienced partner like Cybernet Systems - with a proven distributor model, rich customer base and deep roots in the manufacturing and engineering communities - will extend our reach in Japan and help to ensure that we capitalize on that potential."

With Invention Machine's Goldfire solutions, Cybernet Systems can now provide Japanese manufacturers – including Cybernet Systems' own customer base of more than 2,500 companies – with the ability to accelerate product innovation by speeding ideation, facilitating inventive problem solving and capturing and leveraging technical knowledge and expertise. Accelerated knowledge discovery and ideation empowers companies to continuously fuel product pipelines with better-performing, more competitive and more cost-effective products, while improving product quality, performance, and time to market.

"We are excited about our relationship with Invention Machine and the ability to offer its market-leading Goldfire Innovator and Goldfire Researcher solutions to our customers," said Kuniaki Tanaka, President, Cybernet Systems. "Our enterprise customers have expressed a need for greater return on their Research and Development investments and a greater ability to more quickly and predictably bring new and improved products to market that keep pace with competition, changing technologies and customer demands. This is exactly what Invention Machine's solutions deliver."

### Lattice Technology Teams With Automotive Engineering Consultant; Virtual Services, Inc, to offer advanced XVL-based 3D applications

26 April 2007

Lattice Technology, Inc. announced a new reseller of its compressed 3D XVL technology. Virtual Services, Inc., of Troy, Michigan, will offer the full array of Lattice3D XVL-based 3D applications to their automotive supplier clientele.

Lattice3D provides applications that enable entire organizations to share, re-use, publish and communicate 3D data that originates as engineering CAD models. XVL systems have been extensively implemented in the automotive industry, most notably in the worldwide plants of Toyota Motor Co.

Virtual Services, Inc., focuses on advanced engineering infrastructure solutions for automotive vehicle and part suppliers, including PDM and PLM systems.

"Given the complexities of automotive products, Lattice Technology's XVL has provided the industry a breakthrough approach for getting around the problem of cumbersome CAD files. Using lightweight 3D models throughout the design and manufacturing process is a very effective means to streamline operations. XVL is certainly a technology we want to promote among automotive suppliers," says spokesman of Virtual Services, Ken Barrott.

"Virtual Services is very accomplished in implementing new process improvements, integrating automotive industry best practices in product development, leveraging knowledge based engineering tools, and deploying the best new technologies available," says Lattice Technology US General Manager Bill Barnes. "They definitely have the expertise to implement a new technology like XVL to optimize benefits for a manufacturer. We're pleased to be working closely with their staff."

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### *Lectra Launches its Newest Generation of VectorTechTex Automated Cutting Solutions, the Most High-Performance on the Market*

23 April 2007

Lectra has presented its newest range of VectorTechTex at the JEC Composite Show in Paris in April 3-5, 2007. This automated cutting solution is dedicated to the needs of users of carbon, glass fibers, honeycomb, Kevlar, canvas, vinyl and many other soft materials used in the industry. The VectorTechTex provides an intelligent response to the needs of industrial fabric manufacturers. These include the ability to improve flexibility, reduce production cost through better material consumption, and ensure consistent and predictable quality, all within a secure and reliable process.

"This new generation of automated cutters relies on more than 20 years of intelligent cutting room expertise and strong partnerships established with the leading companies of various sectors like the automotive or aeronautics industries," said Daniel Harari, Lectra CEO. "It represents a genuine technological leap forward, with more powerful and more intelligent solutions."

**A new range that provides unmatched performance**

The VectorTechTexFX is the most advanced response to manufacturers' need for flexibility. Versatile and reliable, it is the ideal solution for short deadlines and small series production. Like the complete Vector range, the FX also ensures maximum productivity using the capability to cut non-stop while the material is automatically loaded in the cutting area. All of the VectorTechTex systems incorporate advanced operating software that optimizes the blade path in order to guarantee perfect quality of cut pieces. This ensures that the data integrity is respected throughout the process from design to production. The software adapts the system's behavior to the requirements of various material types and ensures the best cutting path to achieve accuracy and quality even on the most complex patterns. Cut parts of

impeccable quality can then be produced and made available quickly. The VectorTechTexFP is an ideal response to the needs of first-time users of technology who want to limit the risks linked to human error. Its user friendliness and unmatched cutting quality make it the perfect initial technology investment for companies making the jump to automated cutting.

Developed on the success of Lectra's MP technology, the VectorTechTexMH and MH8, with their high performance and excellent cutting quality, are the standard in the production of high volumes of industrial fabrics, regardless of the complexity of shapes or fabrics to be processed. The intelligent software at the heart of the VectorTechTex range analyzes each action to optimize raw material consumption and guarantee flawless results. Large manufacturers benefit from reliable solutions that are user friendly and easy to maintain. The VectorTechTexMH and MH8 safeguard production and minimize the risk of process interruptions that lead to costly delays and penalties. They offer cutting time optimization that is far superior to that of other systems available on the market, streamline the cutting process and eliminate bottlenecks that can occur in the cutting room.

**Software intelligence in the service of preventive action**

Confronted with accelerating cycles of consumption, manufacturers face new pressures to produce more volume, faster, and cheaper than ever before. Lectra has gone a step further in order to help its customers meet their new challenges with the new intelligent VectorTechTex range. The maintenance plan integrated into the piloting software enables it to act proactively; using warning alerts, actions can be taken even before failures occur, thus limiting the need for intervention by Lectra technicians and guaranteeing maximum availability of the cutting system. In order to make the cutting system integration within the production site more efficient and reliable, its piloting software offers performance and activity reports. The system's intelligence provides a revolutionary response to manufacturers' demand for reliable solutions in a context in which delays are penalized.

**The new Vector range at the heart of the intelligent cutting room**

The VectorTechTex range provides responses adapted to the specific needs of customers. The software guarantees traceability and optimization of manufacturing costs. While Lectra equipment and software perfectly integrate cutfiles created with other CAD software, the VectorTechTex achieves maximum productivity and material savings when connected with Lectra's planning, nesting and spreading solutions. VectorMethod generates cut specification sheets in coordination with a bar code reader integrated with the VectorTechTex cutters to secure the production process against human error. The piloting software delivers detailed analyses of the cutting room with production reports.

"Because we work in close cooperation with our customers, Lectra's innovation policy has enabled the company to develop a complete, coherent solution which ensures productivity, flexibility and a secure process, the most important requirement of industrial businesses. Many of our current customers and prospects where convinced about the new technology upon seeing it at the JEC," said Roy Shurling, Director of Lectra's worldwide automotive and transportation markets.

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### MyWorkPLAN comes to Mexico and Venezuela

12 April 2007

Sescoi has finalized a distribution agreement for its MyWorkPLAN job management software in Venezuela and Mexico, with AT Group Software Inc.

AT Group Software specializes in the provision of systems for design, manufacturing, engineering, and product development. It offers its customers a suite of products and services aimed at cutting time to market, increasing productivity, optimizing the manufacturing process, and raising added value through improved design.

By offering MyWorkPLAN to engineering customers in Mexico and Venezuela, the company will help them to produce accurate quotations based on captured experience and historical data, keep control of purchasing levels, and maintain delivery dates through real time scheduling. Ease of installation and implementation, as well as simplicity of operation makes MyWorkPLAN an ideal choice to rapidly optimize job management without the overheads normally associated with this task.

Both Sescoi and AT Group Software provide in depth training and consultancy for clients. This helps them to get the maximum return on investment, and make the best use of software tools. David Kinzbruner, Sales Manager for AT Group Software said, "MyWorkPLAN fits perfectly with our existing software products and computer aided technologies. We can now offer a system that will monitor, optimize, and refine the business process. By coupling it with our consultative approach we will enable customers to get a powerful insight into the performance of key business drivers."

Sescoi has designed MyWorkPLAN for small and medium sized businesses by combining customer collaboration with 20 years experience in servicing the manufacturing industry. The result is accurate and live monitoring of sales, production, purchasing, delivery, inventory, and cash flow, which translates into profit and productivity. Jordi Ferrer, Sescoi International's Business Development Manager, said, "Working in partnership with AT Group Software will give us a valuable opportunity to bring the advantages of MyWorkPLAN to the Venezuelan and Mexican market. Their extensive support team and collaborative methods will ensure that customers maximize the benefits they can get from MyWorkPLAN."

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### Open Text Sees Customer Momentum with Livelink ECM Integration for Microsoft Office SharePoint Server 2007

23 April 2007

Open Text™ Corporation said that it is seeing strong customer momentum with its Livelink ECM integration for Microsoft Office SharePoint Server, including its first-to-market solution for Microsoft Office SharePoint Server 2007 released in early March. Open Text is a leader in providing ECM

solutions that extend the Microsoft platform, and offers comprehensive enterprise records management and archiving capabilities for Microsoft Office SharePoint Server.

Open Text is seeing strong momentum for the solutions from customers that want enterprise-scale records management and compliant, long-term archiving to complement and extend the value of their Office SharePoint Server deployments. Customers recently choosing the Open Text integration, either for the 2003 or 2007 versions of Office SharePoint Server, include the U.S.'s National Institute of Allergy and Infectious Diseases and Aera Energy LLC.

Open Text has worked closely with Microsoft to extend the functionality of its Livelink ECM integration for Office SharePoint Server to meet the full range of customer requirements and usage scenarios. With its latest integration for Office SharePoint Server 2007, Open Text once again demonstrated its leadership in being first-to-market with a solution that integrates with the latest Microsoft applications. Livelink ECM was the first to be certified for its integration with Office SharePoint Server 2007 under the U.S. Department of Defense (DoD) 5015.2 certification program, a critical standard for records management software being purchased by major corporations and government agencies.

Livelink ECM adds value in four main areas common among many enterprise customers using Office SharePoint Server today, including:

**Lifecycle Management** - The ability to meet compliance and legal requirements around document retention and litigation support, while transparently offsetting the storage load from the front line Office SharePoint Server environment to a wide range of best of breed storage media. This also allows SharePoint Server documents to be classified as records in compliance with U.S. Department of Defense 5015.2 standards directly from the native SharePoint Server interface.

**Office SharePoint Server Content Archiving** - Intelligent archiving and storage management of Office SharePoint Server data and documents, offering lower cost and easier management for large-scale applications. In addition, enterprises are assured of long-term support for all major enterprise storage systems, including EMC Centera, IBM, NetApp, Sun, Hitachi Data Systems and HP.

**Access to Existing Livelink ECM Services** - Users can stay in their familiar Office SharePoint Server environment and gain full access to content, workflow, reports and document classification information from Livelink ECM.

**Federated Search** - The integration provides the ability for users to use search from within Office SharePoint Server to not only search SharePoint Server content across multiple sites, but also content stored in Livelink ECM. This lets users stay in their SharePoint Server environment, find the content they are looking for and repurpose it in many different ways. A key component of the search integration is that it maintains all user permissions to the content in Livelink ECM.

Open Text is a Microsoft Gold Certified Partner and last year was named the 2006 Microsoft Global ISV Partner of the Year. For more information on the Microsoft and Open Text relationship, go to http://www.opentext.com/2/strategic-partners/part-strat-microsoft.htm. For more information on Open

Text's records management solutions, go to: http://www.opentext.com/2/sol-products/sol-pro-records-management.htm.

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### PartMiner Launches New Fasteners Database

25 April 2007

PartMiner, Inc. announced the addition of significant new content to PartMiner's CAPSTM database. The new data set includes multiple fastener and hardware types focused toward the electronics industry.

"Mechanical and fastener content can account for up to 30% of a total bill of materials in an electronic assembly. Including these types of parts in our database makes perfect sense and strengthens PartMiner's coverage for our customers' PDM, PLM, and parts management needs," according to Paul Magin, SVP content & solutions.

PartMiner developed the new database by working with customers and their bills of materials directly, understanding the types of hardware used in their designs. Instead of the traditional shotgun approach, a user-centric method of content capture was employed. This allows PartMiner to provide more relevant content faster.

The new Fasteners database includes bolts, knobs, nuts, rivets, standoffs, studs, screws and washers. This new content is available at no extra charge to CAPSTM subscribers. Users access the new content the same way they do for electronic parts--the new database uses the same award-winning CAPSTM family of tools for single-point search and retrieval.

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### PDF3D Empowers Knowledge Transfer and Collaboration Integrating Adobe® Acrobat with 3D Frameworks

26 April 2007

Visual Technology Services announces version 1.2.1 of the PDF3D™ SDK Toolkit, including bridges to 3D technical graphics and application platforms including VTK, AVS/Express™, Coin3D and Open Inventor™. By enabling these bridges PDF3D empowers product communication, knowledge transfer and collaborative sharing of 3D technical content to downstream stakeholders across the enterprise leveraging Adobe® Acrobat™.

Significant challenges with globalization and supply chain communication creates the need to enhance and simplify the exchange of complex 2D and 3D content with supporting information. Leveraging the Adobe® Acrobat™ infrastructure PDF3D™ begins to contribute value to the simplification of the problem of pushing engineering information beyond their management systems and firewall to joint

venture participants, sourcing partners, sales, other engineering participants, manufacturing, training, service and support. Simplistically it is a problem of archiving, sharing, and delivering complex technical data easily both inside and outside the corporate firewall.

PDF3D support for interactive Product Lifecycle Management (PLM) solutions and scientific analysis solutions allow our customers to share 3D snapshots of content, organize and integrate the different phases of a product's lifecycle using the common Adobe platform. Support for non-complex tools (such as the free Adobe Reader) to view and manipulate 3D content allows companies to shift away from traditional models of PLM and moving towards leveraging the value of embedded interactive 3D solutions directly within reports and project documents for more effective decision making and accelerated product development, launch and support as companies push to accelerate time to market.

PDF3D further expands the sharing of multiple data types with 3D content by announcing support for the several 3rd party application development environments. Communication of multiple data types such as spatial, 3D content and key supporting technical detail within the secure Adobe document management platform and free PDF viewer is now becoming a reality for our customers who view and need to understand 3D multimedia content within today's collaborative business communication process. An example of this is an organisation with 3D data stored in an Oracle® database needing to deliver secure documents containing multimedia 3D content and supporting technical documentation to their clients.

**About PDF3D**

PDF3D is a division of Visual Technology Services Ltd., a product and service company specializing in interactive graphics, novel display techniques and data visualization with clients in mechanical engineering analysis, nanotechnology, microelectronics, material science, geology and geophysics. The PDF3D platform is focused on improving product communication and collaboration by facilitating the automatic publishing of 3D technical content from various sources into the industry standard Adobe PDF documents. See http://www.pdf3d.co.uk/

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***RuleStream and EAC Product Development Solutions Announce Strategic Partnership; PTC™ Pro/ENGINEER® Users to Benefit from Comprehensive Engineering Design Automation Solutions and Services***

24 April 2007

RuleStream Corporation and EAC Product Development Solutions (EAC), a leading PTC™ authorized reseller, announced that they have entered into a strategic partnership. Under the terms of this agreement, EAC will be an authorized provider of software, consulting, services and training for RuleStream's design automation solutions to the PTC Pro/ENGINEER user base.

This partnership addresses the growing momentum of RuleStream solutions in engineer-to-order (ETO) markets, and fills the expanding need for associated consulting and services within the PTC Pro/ENGINEER community.

"RuleStream's premier engineering design automation solutions are an exciting addition to our enterprise level product suite and world class services," said Thane Hathaway, President of EAC Product Development Solutions. "Together, we can now effectively address the unique needs of custom product manufacturers, providing our customers with more innovative, superior solutions to complex product development problems."

"RuleStream extends the value of Pro/ENGINEER to deliver a powerful application that yields significant improvements in both new product development and ETO environments," said Robert Nierman, CEO of RuleStream. "Our partnership with EAC is key to supporting our expansion in the Pro/ENGINEER user community. EAC's focus on providing complete product development solutions, as well as and their outstanding engineers and consultants, will bring tremendous benefit to custom product manufacturers who are seeking to streamline processes and ensure competitive advantage."

### SAP and Microsoft Deliver Extended Road Map for Duet™ Software

24 April 2007

SAP AG and Microsoft Corp. announced that they have deepened their relationship and extended their product road map for Duet™ software for Microsoft® Office and SAP, a solution that allows information workers to interact with select SAP business processes and data through Microsoft Office applications. The companies will jointly enhance Duet with additional business scenarios, platform capabilities and development tools. The upcoming version, Duet 2.0, is planned for the end of 2008 and Duet 3.0 is planned to be released soon after the next generation of SAP® Business Suite applications and Microsoft Office software, including Microsoft Office SharePoint® Server. This announcement from SAP and Microsoft underscores the companies' continued investment in shaping the future of Duet to ensure that it benefits their joint customers. The news was released at SAPPHIRE® '07, SAP's international customer conference, being held in Atlanta April 22 - 25.

"Today's announcement is a win for customers, another example of SAP's ongoing tradition of co-innovation with partners and evidence of our continued commitment to our relationship with Microsoft," said Leo Apotheker, president of Customer Solutions and Operations and deputy CEO of SAP AG. "Duet started out as a revolutionary combination of two industry leaders and continues as the only commercially available product that is jointly developed and supported by both Microsoft and SAP. With this Duet road map, customers and partners can count on richer business scenarios, new collaboration features and simpler, more flexible ways for information workers to leverage their organization's business processes and information."

For organizations to succeed, all employees need instant access to relevant enterprise information and processes. Originally announced in April 2005, Duet is the result of collaboration between SAP and

Microsoft which extends the benefits of SAP to information workers through the familiar Microsoft Office environment. Duet makes SAP applications useable right away without the need for training on a new user interface.

"The incredible level of interest in Duet by our customers motivated us to share specifics around the future direction of the product," said Jeff Raikes, president of the Microsoft Business Division at Microsoft. "The broadened capabilities of Duet coupled with the Microsoft Office SharePoint Server integration will bring businesses new value and people the tools to help them drive business success."

Duet is a model for how applications perform in the age of enterprise service-oriented architecture (enterprise SOA). Combining the power of enterprise SOA capabilities in the coming versions of SAP® Business Suite applications, Microsoft Office software and Microsoft Office SharePoint Server, Duet will help customers create software building blocks that they can use to easily deploy and customize Duet without disrupting their current IT infrastructure. As a result, Duet continues to be embraced by customers and partners with more than 250 customers and 400,000 licenses sold in less than a year. The upcoming features are based on feedback from this growing community of Duet customers.

Both industry leaders continue to co-innovate using their portfolios of enterprise SOA technologies to empower information workers with access to critical business processes and information, and collaborate via their preferred user environment. Following are some new features customers can expect in Duet 2.0 and Duet 3.0:

- Enhanced and new business scenario support for sales and supply chain management, and other business scenarios -- extended capabilities will allow sales professionals to manage sales leads and opportunities within SAP® Customer Relationship Management (SAP CRM) from Microsoft Office. Additionally, supply chain managers will have new capabilities for purchasing and legal contract management. There will also be support for selected governance, risk and compliance scenarios.

- Expansion of Duet to support unstructured processes, information and team collaboration through embracing Microsoft Office SharePoint Server, Microsoft's business productivity platform. The combination of SAP Business Suite and Microsoft Office SharePoint Server streamline the way people do business by truly connecting people, process and information.

- Enhanced Duet tools and infrastructure interwoven with Microsoft Office SharePoint Server, so customers and partners can customize existing scenarios and create new ones. New scenario templates and development tools allow organizations to adapt existing Duet scenarios and build new scenarios that meet their evolving business needs.

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### SAP Unveils Road Map for Next Wave of SAP NetWeaver Innovations

24 April 2007

[SAP AG](#) unveiled the next wave of functionality in SAP NetWeaver®, designed to help CIOs establish a strategic platform to fuel business process innovation and keep up with the speed of change required by the business. With SAP NetWeaver, customers, partners and developers can maintain a stable, core IT foundation while leveraging new platform advancements to drive business growth. New functionality in SAP NetWeaver is aligned under four pillars: improved user access and productivity, accelerated application and business process composition, streamlined access to relevant and reliable information across the enterprise and automated governance of enterprise service-oriented architecture (enterprise SOA). The announcement was made at SAPPHIRE® '07, SAP's international customer conference, being held in Atlanta, Georgia, April 22 - 25.

SAP is meeting the needs of CIOs by delivering new platform capabilities and enhancements in an incremental manner to supplement the core foundation of SAP NetWeaver and SAP® ERP. This new, easy-to-deploy functionality is scheduled to be made available starting in 2007. Highlights under the four pillars include:

- State-of-the-art user experience through Web 2.0, AJAX and rich-client capabilities

- Java EE5-based application and process composition enabled for lean consumption

- High-performance service-bus capabilities based on Web service standards

- Built-in SOA governance through SAP NetWeaver® Enterprise Services Repository and UDDI 3.0 registry

**Improving User Access and Productivity**

SAP is simplifying the user experience and streamlining business processes by delivering enhancements to SAP NetWeaver® Portal, the new SAP NetWeaver® Business Client software and improved multi-channel access functionality. New capabilities extend the value of each user interface, designed to support an individual's role in the organization. SAP NetWeaver Portal creates new efficiencies for collaborative project work through an AJAX-enabled interface that will help end users combine business data and application functionality. The portal also introduces Web 2.0 tools, including wikis and social networking, to support enterprise-wide collaboration while also helping customers ensure security and compliance.

Designed to support the needs of task workers, such as order clerks and financial managers, SAP NetWeaver Business Client offers a new, rich user interface which can be used to access SAP applications from the desktop. The new client also supports integration with other desktop applications. Additionally, mobile users will benefit from scalability and TCO improvements to SAP NetWeaver Mobile, the technical foundation for enterprise mobility within the platform, and the new SAP NetWeaver® Voice, a new development toolkit offering SAP application access from any phone.

**Accelerating Application and Process Composition**

Fostering greater business process automation and flexibility, SAP will offer new functionality delivered through SAP NetWeaver® Composition Environment (SAP NetWeaver CE) and SAP NetWeaver® Process Integration (SAP NetWeaver PI). The Java EE5-based SAP NetWeaver CE is a next-generation set of integrated tools to be used by customers, partners and SAP for the composition and deployment of standards-based composite applications. Additionally it provides developers an integrated environment used to create and adapt applications and processes across heterogeneous IT assets based on enterprise services from SAP, its customers and partners.

SAP NetWeaver Process Integration, an evolution of the SAP NetWeaver® Exchange Infrastructure (SAP NetWeaver XI), will further strengthen SAP's support for the technical infrastructure of enterprise SOA. This includes a standards-based service bus connecting composite applications with enterprise services, as well as the UDDI 3.0 compliant, SAP NetWeaver Enterprise Services Repository. In addition to significantly enhanced performance characteristics, SAP NetWeaver PI also comes with new business activity monitoring (BAM) capabilities to manage business events and resolve alerts in real-time.

**Streamlining Access to Relevant and Reliable Information Across the Enterprise**

SAP is delivering significant new enhancements in the area of enterprise information management via SAP NetWeaver® Business Intelligence (SAP NetWeaver BI) and SAP NetWeaver® Master Data Management (SAP MDM). New functionality and tightened integration between these platform capabilities help users securely manage and improve the quality of business information and also quickly identify and act on business driven insights.

The next generation of SAP NetWeaver BI will deliver a simplified Web 2.0- based user experience, provide increased self-service access to corporate information for business users -- including via SAP NetWeaver® Enterprise Search -- and will further embed intelligence within the context of daily business processes, event-driven and task-oriented. To further increase business agility, customers will be able to deploy SAP NetWeaver BI via federated departmental deployments, allowing lines of business to own and manage their own BI environment while still under the company's corporate governance policies for information management.

SAP NetWeaver MDM allows customers to manage and harmonize all types of master data in a single platform. New enhancements to SAP NetWeaver MDM include a comprehensive new security model for enhanced governance and audit tracking, new data syndication and distribution and support for Asian languages.

**Automating Enterprise SOA Governance**

As companies continue down the path to better align around an enterprise SOA infrastructure, SAP now offers a next version of SAP NetWeaver Enterprise Services Repository (SAP NetWeaver ESR). The enterprise services repository provides access to more than 1,000 productized enterprise services for rapid innovation as co-defined by SAP, its partners and customers. Unlike other basic registries that only focus on Web service management, SAP NetWeaver ESR comes with business process models and business object models, in addition to Web service definitions. Customers and partners can also ensure

common business semantics for ease of composition and reuse by using SAP's own best practices and processes for enterprise service creation, management and governance.

**SAP NetWeaver Momentum Keeps Building**

SAP NetWeaver continues to experience accelerated platform adoption rates with usage increasing 250 percent in 2006, representing more than 13,000 customers using SAP NetWeaver as their strategic platform in support of critical business processes.

"SAP NetWeaver is the right choice for CIO's who are looking to establish a strategic technology platform that supports existing and future IT investments and helps align IT with evolving business needs," said Klaus Kreplin, corporate officer and member of the Executive Council, head of SAP NetWeaver Technology, SAP AG. "New functionality will allow customers to more easily identify opportunities for business innovation, helping them move ahead of the competition."

*SpaceClaim Announces SpaceClaim Professional 2007 Certified for Windows Vista; Mechanical Design Software Leverages Microsoft Technology Advancements to Improve User Experience*

26 April 2007

SpaceClaim Corporation announced that its SpaceClaim Professional 2007 application has been Certified for Windows Vista. SpaceClaim Professional 2007 is an open 3D mechanical design solution for those who contribute directly to product development. SpaceClaim Professional 2007 takes full advantage of Microsoft's latest operating system enhancements to drive an exceptional user experience.

"We are pleased that SpaceClaim Corp. has earned the Certified for Windows Vista software logo for their SpaceClaim Professional 2007 application," said Dave Wascha, Director of Partner Marketing for Windows Client, Microsoft Corp. "This highlights SpaceClaim's commitment to providing its customers with high quality applications that deliver a more secure, reliable, and compatible experience with Windows Vista."

"Our customers come to us for accessible, powerful 3D that fits within their manufacturing organizations and the supply chain," said Mike Payne, Chief Executive Officer of SpaceClaim Corp. "Because many product design contributors lack time to master the designer's CAD system, they need a tool that is more intuitive to use. By working with Microsoft, we feel confident that SpaceClaim Professional 2007 delivers the best customer experience through the most current features for increased usability. We are also pleased to note that our application performs as well on Windows Vista as it does on Windows XP."

### *Synopsys Enhances Designware Synthesizable IP for AMBA 2 and AMBA 3 AXI Protocols*

25 April 2007

Synopsys, Inc. announced the 2007.04a release of DesignWare® synthesizable intellectual property (IP) for the ARM® AMBA® 2 and AMBA 3 AXI™ protocols. The DesignWare Library solution allows designers to integrate the high-speed protocol into their systems-on-chip (SoC) designs and enables designers of AMBA protocol-based systems to focus on the development of value-added elements to differentiate their products. The 2007.04a release includes a new I2S protocol IP for the APB bus, an AXI-to-APB3 compliant bridge with built-in fabric, and a highly configurable AXI-to-AXI bridge supporting a multi-layered AXI bus-based design. The release also includes extensive enhancements to the existing IP for the AMBA 2 and AMBA 3 AXI protocols.

The DesignWare IP for the I2S protocol implements the popular three-wire interface for streaming stereo audio between devices. This new IP removes the complexity of adopting the I2S protocol by offering a ready-to-implement, synthesizable IP. The AXI-to-APB3 bridge and fabric provides a seamless interface between the high-speed AXI bus and the APB3 peripheral bus. The AXI-to-APB3 bridge and fabric is backward-compatible with the APB 2.0 protocol and supports all existing APB-based peripherals. The AXI-to-AXI bridge provides upsizing, downsizing and multiple clock domain synchronization features between two AXI interconnects.

Additionally, the latest enhancement to the DesignWare interconnect fabric for AXI bridge includes bi-directional command support, solving the inherent master-to-slave communication paradox when two or more interconnects are connected together. The DesignWare interconnect fabric also helps designers meet their performance and area requirements by offering the choice of three timing configurations, providing users with the additional flexibility to optimize timing by trading off latency for clock rate.

The DesignWare solutions for AMBA interconnect include all three parts required to facilitate AMBA protocol-based subsystem designs: AMBA protocol-compliant synthesizable IP, AMBA 2 and AMBA 3 Assured™ Verification IP, and coreAssembler, an automated tool for rapidly assembling, configuring, and implementing AMBA 2 and AMBA 3 AXI protocol-based subsystems.

"We chose Synopsys' DesignWare Library because we needed an array of proven AMBA protocol-based IP for our latest design subsystem," said Andre Chartrand, vice president of engineering at Entropic Communications. "The DesignWare IP simplified subsystem integration, and its flexible configuration helped us meet our timing and area goals without sacrificing important features. In addition, Synopsys' comprehensive DesignWare library subscription model, which includes both synthesizable and verification IP, delivered a single vendor source for our design and verification team's needs."

"Quality IP availability and automation of subsystem assembly are key to reducing project design cycles," said John Koeter, senior director of marketing for the IP and Services Group at Synopsys. "The DesignWare solution for the AMBA protocol includes all the common, frequently used infrastructure building blocks, verification IP, and assembly tools, making it a comprehensive library of AMBA

protocol-based IP. This portfolio of proven IP reduces risk and enables more predictable success for engineers implementing the popular AMBA protocol standard."

**Availability**

The 2007.04a release of DesignWare synthesizable IP for the AMBA 2 and AMBA 3 AXI protocols is available now at http://www.synopsys.com/designware/amba_solutions. DesignWare Library licensees have access to this IP at no additional cost. RTL source code is available for license separately, on a pay-per-use basis.

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### Synopsys Releases Wireless USB WHCI Host and Dual-Role Device IP Based on the Certified Wireless USB Specification From USB-IF

26 April 2007

Synopsys, Inc. announced the release of its DesignWare® Wireless USB Host and Dual-Role Device (DRD) intellectual property (IP) based on the Certified Wireless USB Specification from USB-IF. Synopsys has been a leading provider of USB IP for five years in a row. Designed for applications like PC chipsets, set top boxes, personal video recorders, DVD Players and digital TVs, the DesignWare Wireless USB Host is based on the Wireless Host Controller Interface (WHCI) specification. Designing to the WHCI specification enables system makers to build applications on standard WHCI drivers to save months of software driver development. To enable broad driver compatibility, the DesignWare Wireless USB DRD uses the same host register set as the host. The DRD can be used in mobile phones, personal media players, digital cameras and printers, for example, to exchange videos or music wirelessly.

The DesignWare Host and DRD IP are built to suit portable electronics applications that demand a high level of power conservation and device interoperability. Dual power rails allow the designs to shut down power to sections that are not in use, resulting in additional power savings over clock gating. The IP's GUI enables designers to rapidly configure the IP to use the smallest area for the required features, minimizing silicon cost and power consumption.

Additionally, the DesignWare Host and DRD IP feature a flexible, firmware-programmable design that can be used for post-silicon feature additions and bug fixes. This reduces the likelihood of a chip re-spin and saves mask costs.

"Alereon is proud to team with Synopsys to offer a silicon solution that allows device manufacturers to add Wireless USB capability to their products - giving consumers the increased mobility and ease-of-use they desire," said Eric Broockman, chief executive officer of Alereon. "Alereon's WiMedia PHY chipset, along with Synopsys' Wireless USB Host and Dual-role Device IP, will serve as key building blocks for developing Certified Wireless USB end-user products."

"Compatibility testing of IP cores with a proven physical layer solution is an essential component of Wireless USB IP designs," said Ran Yan, senior vice president, Wireless Communications Technologies at Realtek. "By demonstrating compatibility with Realtek's WiMedia PHY solution, Synopsys has enabled use of an ultra-compact all-CMOS single-chip PHY in conjunction with its Host and DRD IP."

The full-featured, synthesizable DesignWare Wireless USB Host and DRD are compatible with the WiMedia® Alliance Ultra-wideband (UWB) Common Radio Platform. The IP includes the digital controller logic required to integrate Certified Wireless USB IP into systems-on-chips (SoCs). The IP includes a standard WiMedia MAC-PHY interface for rapid integration with standard UWB PHYs. Synopsys continuously tests the IP with UWB PHYs from Alereon and Realtek.

"The USB-IF is pleased to see Synopsys' continued support for the Certified Wireless USB technology," said Jeff Ravencraft, USB-IF president. "Solutions like the host and dual-role device IP, will provide support for adopters to integrate the Wireless USB technology into products and get them to market quickly."

**Availability**

The DesignWare Wireless USB Device, Host and Dual-Role Device IP are currently available and are sold separately. More information can be downloaded from http://www.synopsys.com/designware

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