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Top Story

UGS and IBM to Provide Product Lifecycle Management to Small and Medium-Sized Businesses (SMBs) Worldwide

8 January 2007

UGS Corp. announced a new agreement with IBM to support the collaborative product data management (cPDM) requirements of small- to medium-sized businesses (SMBs) on a global basis.

“This agreement is another important step in our strategy of delivering innovative, industry-focused business and technology solutions designed specifically for the SMB market,” said Steve Solazzo, general manager, Mid-Market, IBM. “The combination of IBM Business Partners and UGS leadership

CIMdata PLM Industry Summary

products creates a very compelling value proposition for SMB customers looking for open, highly scalable data management solutions.”

“UGS is committed to openness – both in technology and in partnerships,” said John Graham, executive vice president of Global Sales and Services, UGS. “We are excited to make this move with IBM for SMBs. More companies trust UGS to manage their product knowledge than the next three competitors combined. We already create or manage more than 40 percent of the world’s 3D data with our open cPDM technology. Working closely with IBM’s Small, Medium Business, IBM Software Group and IBM’s business partners will extend that leadership.”

The two key pieces of the new agreement are:

IBM and UGS will jointly market to IBM business partners to sell and support Teamcenter® Express software and services to SMB customers in six countries: the U.S., Canada, France, Germany, Japan and China.

Teamcenter Express – the cPDM component of the UGS Velocity Series™ portfolio for the mid-market – can be coupled with a wide variety of computer-aided design (CAD) applications including UGS’ Solid Edge® and NX® as well as CATIA®, Pro/Engineer® Wildfire®, AutoCAD®, Inventor™ and SolidWorks®. Teamcenter Express packages SMB-preconfigured, best practice technology for the machinery, automotive, aerospace and defense industries.

Teamcenter Express is the mid-market configuration of Teamcenter, UGS’ flagship product data management software portfolio. With more than two million licenses in use worldwide, Teamcenter is a widely used PLM portfolio.

“This is a strategic move for UGS as it continues to deliver on its commitment to serve the high growth SMB market,” said Ed Miller, president of CIMdata. “Teamcenter Express underscores UGS’ drive to expand their development of their Velocity suite of SMB-focused products and to leverage the open, multi-CAD focus of its Teamcenter platform. For IBM and its business partners, this offering expands its portfolio of solutions for small to medium size businesses.”

“We’re excited about this new agreement with IBM that expands our working relationship,” said Graham. “Along with an expanded Teamcenter Express, this partnership further demonstrates our commitment to expand our SMB multi-CAD coverage. IBM business partners now have choices in providing the best technology to meet their customer needs. Teamcenter Express provides an open cPDM product to manage multi-CAD data for IBM customers.”

Open platforms are critical to Global Innovation Networks. UGS and IBM have proven their commitment to open collaboration in recent announcements. IBM recently announced a new, open Product Development Integration Framework to better link product design and development to core business processes. The framework, combined with business partner PLM applications, allows clients to easily extend design and business collaboration throughout their value chain (see separate release). In addition, UGS reinforced its open business model with the publication of a comprehensive reference to

the JT™ format, the PLM industry's most widely used 3D data format for product visualization and collaboration. (see separate release)

An expanded Teamcenter Express for IBM customers will be available in the first quarter of 2007. For more information, visit <http://www.ugs.com/partners/ibm>.

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Acquisitions

Delcam Acquires Footwear CAD/CAM Specialist Crispin

11 January 2007

Delcam has reinforced its position as a supplier of CAD/CAM systems to the footwear industry with the acquisition of [Crispin Systems Ltd](#). The company is one of the leading specialist suppliers of software to the sector. Sales are currently especially strong in the Far East, with existing customers expanding their use of technology and large new factories been opened.

Crispin has a twenty year history of providing software for the design and manufacture of lasts, uppers and soles to leading companies in the industry and, last year, added a new range of systems for orthopaedic applications.

The company was first formed as the Crispin Systems Division of the USM group of companies in 1986. Two years later, it acquired the MicroDynamics footwear-related software products and became known as Crispin Dynamics. After being part of USM and then Texon, it became an independent company on December 10th, 2003.

The Crispin range of software covers the key stages in footwear product development, including the capture of CAD data for lasts from physical models, the creation of 3D shoe designs to advertising quality and the production of 2D patterns. The new orthopaedic range is similarly comprehensive, consisting of products for 3D scanning of feet, modification of orthopaedic lasts from a scanned foot template, 3D design creation, 3D style line engineering, advanced flattening from 3D to 2D, and 2D pattern engineering.

"The addition of Crispin to the [Delcam](#) group will give us much higher visibility and an even larger number of customers – around 2,000 in total – in the footwear industry, in particular reinforcing our position in the sports shoe sector." commented Delcam's Managing Director Hugh Humphreys. "We believe that the combination of products provides the total CAD/CAM solution to the industry and are committed to giving excellent service and support to both existing and new customers."

"I am pleased that all of the company's staff have agreed to continue to work for the company from the current base in Leicester," he continued. "The addition of such an experienced team of footwear specialists will enable us to provide even better support to our clients."

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FISHER/UNITECH Acquires Solid Insight

8 January 2007

FISHER/UNITECH announced that it has completed its acquisition of Solid Insight. The acquisition is expected to further extend FISHER/UNITECH's leadership as a SolidWorks® 3D mechanical design software reseller and PLM consulting organization. Since 2003, Solid Insight has developed an extensive customer set and an excellent track record of over 200 successful CAD/CAM implementations. FISHER/UNITECH will offer these customers a broader product portfolio including rules based design automation and product lifecycle management solutions.

This merger will result in positive strategic growth enabling the company to better serve its customers. An immediate customer benefit will be comprehensive technical service via SupportExpress, the company's intuitive 24/7 web-based support portal. SupportExpress enables customers to open support cases and check their status online at any time. SupportExpress also offers online bill paying and transaction history, a searchable knowledge base, viewable quotes, orders and return request capability, and e-commerce with secure shopping cart functionality.

Another important customer advantage is access to FISHER/UNITECH's 3DU online education system. FISHER/UNITECH is the only reseller in North America to offer staffed SolidWorks courses online via an interactive environment.

Solid Insight's business operations in Dayton, Ohio, will continue without interruption and become a branch office of FISHER/UNITECH. Brad Weaver, formerly president of Solid Insight, has been named branch manager of the Dayton office. "I am pleased to be part of the FISHER/UNITECH team and play an integral part in the company's expansion and growth in 2007," said Brad. "I look forward to building upon our combined experience to provide unsurpassed sales, service and support to the SolidWorks community."

"Solid Insight's engineering expertise combined with our infrastructure and commitment to PLM solutions creates a dynamic new resource for prospects and customers in Ohio and Kentucky," said Charles Hess, president of [FISHER/UNITECH](#).

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Company News

Autodesk Sponsors Rising Designer in Quest to Create Winning Concept Car

8 January 2007

CIMdata PLM Industry Summary

[Autodesk, Inc.](#) announced its sponsorship of designer Uros Pavasovic's concept car submission into The Michelin Challenge Design competition at the 2007 North American International Auto Show. Pavasovic, a successful freelance automotive and yacht designer, created his entry entitled "Fiat Scratch" using Autodesk AliasStudio software. The AliasStudio software successfully took Pavasovic's unique design from initial sketch to production modeling with tools that facilitate rapid creation, evaluation and visualization of design ideas in a seamless, single-system design process. AliasStudio is the premier industrial design tool used by virtually every car company and many leading consumer product and design consultancies around the world.

Originally designed as his final project during his Masters of Vehicle Design studies at the Royal College of Art in London, Pavasovic's car concept showcases a minimalist design with unique scratch patterns and paint effects. Pavasovic compares his car design to a "character-infused pair of old blue jeans" and intends for the scuffed car body to "capture the spirit of unfettered freedom and individuality."

"The Autodesk 3D solution for automotive conceptual design and visualization is seamless and complete," explains Pavasovic. "It integrates the 3D tools I rely upon for the shape definition and communication processes, helping me to turn the 'Fiat Scratch' car I've envisioned in my mind into something I can showcase, share and physically interact with. AliasStudio software inspires creativity and allows me to craft designs that excel aesthetically and functionally -- I'm always striving to be an original thinker so that I can offer the unexpected."

A long-time Autodesk fan, Pavasovic has high praise for AliasStudio and its ability to streamline his design process. In early stages, advanced dynamic shape modeling functionality gave Pavasovic a quick way to experiment with and modify shapes at any stage of the design process. Through multiple iterations, AliasStudio allowed him to keep the original concept intact -- a critical function when he moves from a one-quarter scale model to full-size. Later on, key modeling tools accelerated the process of creating high-quality surfaces. Lastly, AliasStudio provided Pavasovic with photo-real, interactive visualization, offering a real-time feedback and design communication vehicle without the time and expense of having to construct a physical prototype or wait for software rendering.

"Designing cars is a challenging and intensive process requiring a designer to showcase new concepts, enhanced styling, advanced technology and emotion," says Robert "Buzz" Kross, vice president of Autodesk Manufacturing Solutions. "Designers, like Uros Pavasovic, armed with the complete Autodesk AliasStudio software solution, are able to overcome the challenges of concept car creation and realize their creative ideas before they are built."

A full-size model of Pavasovic's car will join the more than 40 works selected by the prestigious 2007 Michelin Challenge Design jury for display at the North American International Auto Show in Detroit January 7-21, 2007 in Michigan Hall. For more information, visit <http://www.michelinchallengedesign.com/>.



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Dassault Systèmes to Sponsor 2nd Annual 'EyesOn Design' Competition at 2007 North American International Auto Show

8 January 2007

Dassault Systèmes ([DS](#)) announced that it will co-sponsor the second annual 'EyesOn Design' competition to be held at the 2006 North American International Auto Show (NAIAS) on January 9, 2006. EyesOn Design is a Detroit Institute of Ophthalmology (DIO) fundraising event, which honors and recognizes the most significant new automotive designs on display at the auto show. Internationally renowned designers from the automotive, consumer and industrial design communities will judge the show's extensive display of innovative production and concept vehicles.

Vehicles are judged in three categories that embody critical elements of vehicle design -- the Aesthetics & Innovation Award, the Concept Implementation Award and the Functionality Award. Dassault Systèmes is the sole sponsor of the Aesthetics & Innovation Award, which focuses on the essence of design and the innovation it takes to develop a new and significant design.

"At last year's Auto Show, almost 70% of the new vehicles launched were designed using Dassault Systèmes software, so it is a natural fit for us to be part of the EyesOn Design program," commented Dassault Systèmes CEO and President Bernard Charles, who will present the Aesthetics & Innovation Award. "Our goal is to provide tools that enable innovation throughout the entire design and manufacturing process, helping the automotive industry produce exciting, high quality vehicles within a reasonable time frame and at a reasonable price. We are honored to partner with the DIO and to be a part of this prestigious event, which recognizes automotive design excellence and raises money to assist the visually impaired."

Top international designers comprise the jury for the 2007 EyesOn Design awards, including Willie G. Davidson (Harley-Davidson); Fabrizio Giugiaro (ItalDesign); and Niels Diffrient (Ridgefield CT - industrial design and architecture). "The goal of this program was to create an awards program that celebrates the design profession," said Tom Gale, chief judge for the EyesOn Design Awards and the former head of design for Chrysler. "We are excited to see what the 2007 award show has in store."

Founded in 1972, the DIO works to educate the visually impaired, helping to preserve vision through public and professional education and by supporting research related to vision and the eye. More than 6,000 people directly benefit from these programs each year.

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Haluk Menderes joins ESI Group as Executive Vice President Sales & Marketing

8 January 2007

[ESI Group](#) announced the appointment of Haluk Menderes as Executive Vice President Sales & Marketing, Worldwide Operations. He is reporting to Vincent Chaillou, President Product Operations and COO ESI Group.

Haluk Menderes joins ESI Group with more than 20 years of experience in Sales and Marketing and General Management in the CAE and enterprise simulation software industries. Before assuming this position, Haluk Menderes has served in several executive roles at MSC.Software including Senior Director of European Services, Vice President and General Manager of EMEA Field Operations and Vice President of Automotive Industry. Before the acquisition through MSC.Software in 1999, Haluk Menderes was the European Vice President of MARC Analysis Research Corporation. Haluk Menderes holds a master's degree in Aerospace engineering and worked for MBB and IABG (German Aerospace Industry) during 6 years in the engineering CAE department before joining MARC in 1988. He is based in Munich, Germany.

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Intelligent Light Awarded NASA SBIR for Development of Specialized Post-Processing System for Large, Unsteady CFD Simulations

8 January 2007

[Intelligent Light](#) has been awarded a NASA Phase 1 SBIR contract to develop a specialized prototype post-processing system designed for large rotorcraft acoustics problems. This system is designated as RCAAPS - Rotorcraft Computational Aero-Acoustics Post-processing System. It is designed to expedite the exploration of large transient datasets that result from multi-physics based (i.e. Large-Eddy Simulation with aero-elasticity and acoustics) simulations as it pertains to rotorcraft performance predictions especially maneuver. Under the contract, Intelligent Light Applied Research Group (ARG) will develop a breakthrough visualization system prototype capable of exploiting contemporary hardware systems during both compute and data handling. The prototype system developed under this SBIR will revolutionize the way investigators explore large datasets and allows for more complete and thorough use of CFD and acoustics data.

RCAAPS has two potential benefits to NASA: as a highly effective tool to advance the usefulness of rotor-craft simulations and as a post-processing tool to support all types of unsteady design and analysis tools. RCAAPS's primary focus is aeroacoustics, which has application in environmental noise reduction for rotorcraft and fixed wing aircraft in high-lift configurations. The fundamental technologies (integrated high-performance parallel I/O, high performance CFD-specific numerical methods, 'point and click' interrogation of large unsteady data) will be applied to future software development including and will benefit users of FIELDVIEW and FIELDVIEW eXtreme.

Aero-acoustic analysis is of high importance to manufacturers of both fixed wing aircraft and rotorcraft. A system such as RCAAPS will significantly advance the tools available to US industry for the design and analysis of environmental noise from such machines; a growing priority for both combat and commercial operations. The technology will benefit CFD practitioners utilizing large unsteady simulations for any application. RCAAPS will become a critical tool for the development of future designs in aerospace, automotive, and wind turbines that feature lower airflow-induced noise than current technologies.

"Rotorcraft airflows are highly complex and unsteady. The size of the datasets are large and growing and as we look toward multi-terabyte, high resolution unsteady datasets, a more powerful and efficient system is needed," said Earl P. N. Duque, manager of Intelligent Light's Applied Research Group and principal investigator on this project. "The RCAAPS program takes a holistic view of the CFD simulation process and the specific demands of post-processing to increase capability and throughput. The anticipated benefits will enable a dramatic leap forward in the use of large scale unsteady simulations for aeroacoustics and CFD."

Collaborating investigator Professor Kenneth Brentner of Penn State University and Dr. Duque are two of the world's leading experts on rotorcraft simulation. Their respective expertise in computational aeroacoustics and the application of CFD for aeromechanics provide the engineering platform for the development of this new visualization system.

Dr. Duque leads the Applied Research Group which consists of a team of CFD and computer science experts that possess the experience and deep expertise required to collaborate with leaders in CFD around the world. With expert team members in the US, Europe and the Asia-Pacific region, Intelligent Light can support customer needs for short term implementation projects as well as long term research ventures. The Applied Research Group is working at the leading edge of CFD to develop methods and techniques that will benefit the entire CFD community.

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New eBook on Creating Animations with AutoCAD

9 January 2007

upFront.eZine Publishing, Ltd. released "Animations with AutoCAD," a new ebook about creating animations with AutoCAD software from Autodesk.

The 58-page ebook describes how to go on interactive walkthroughs and make pro-programmed animations with 3D models in AutoCAD 2007. The ebook provides tutorials on creating movies with AutoCAD, and then editing them with the free MovieMaker software included with Windows XP and Vista.

The e-book provides a wealth of details on:

- Recording animations along paths.
- Saving path animations as movie files.
- Walking and flying through 3D models.
- Adjusting walkthrough speed and field of view.

- Recording interactive walkthroughs.
- Editing animations with MovieMaker.
- Testing with the GSB commands.
- Tips on making animations more realistic, and processing long animations.
- And a history of AutoFlix.

Learn more about "Animations with AutoCAD," read the full table of contents, and view select pages at <http://www.upfrontezine.com/awa>.

Availability and Distribution

This new ebook is available now for US\$8.70 as an Adobe Acrobat file PDF for delivery via email, ftp, or Web browser. The ebook is also available on CD.

The e-books feature:

- Illustrations in full color.
- Formatted for printing on standard 8.5x11 paper.
- Margin designed for three-hole punching.
- Immediate availability.

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OneSpin Solutions Names Peter Feist President and CEO

8 January 2007

[OneSpin Solutions GmbH](#) announced the appointment of Peter G. Feist as president and chief executive officer, effective Jan. 1. Feist, who will lead the company's worldwide expansion, brings to his new position nearly 25 years of semiconductor and EDA industry experience in the U.S. and Europe, and an exemplary track record in executive and strategic management. OneSpin Solutions is the first EDA company to enable true functional sign-off by detecting all functional errors in complex digital modules

and intellectual property (IP), saving companies millions of dollars in re-spin costs and speeding time to market.

According to Feist, "As the definitive source for complete formal verification, OneSpin offers a level of quality that no other EDA company has been able to match – guaranteed error-free functional sign-off and risk-free IP reuse. I am honored to join the team that has made this a reality. OneSpin is committed to serving customers worldwide, and I look forward to leading this effort."

Founder, renowned mathematician and chief technology officer of OneSpin Solutions, Dr. Wolfram Büttner, said, "The quality metrics we applied to our CEO search were every bit as rigorous as those we apply to our technology development. Peter Feist, with his broad skill set and keen business acumen, is the ideal leader to drive OneSpin's business development and next stage of growth."

Feist is based in Silicon Valley, California. Prior to joining OneSpin, he served as chief executive officer at SIGMA-C until its acquisition by Synopsys and, earlier, as general manager and chief operating officer at SIGMA-C. Previously, he served as president and chief executive officer at PACT XPP Technologies AG; president and chief executive officer at Chameleon Systems Inc.; vice president of worldwide marketing at QuickLogic Corp.; senior vice president of marketing at GateField Corp.; and regional manager in Europe at Odeum Microsystems, a subsidiary of Hyundai's Digital Media Division. His early career spanned a broad spectrum of engineering, marketing and management positions at LSI Logic Corp. in Europe and the U.S. Feist holds a Dipl. Ing. degree (M.S.E.E. equivalent) from the University of Dortmund, Germany.

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SOGETI High Tech Signs Strategic Agreement with Altair Engineering

10 January 2007

[Altair Engineering, Inc.](#) and SOGETI High Tech have signed a strategic agreement for the extended implementation of Altair's HyperWorks suite of integrated computer-aided engineering (CAE) software tools. SOGETI Group -- a subsidiary of the Capgemini Group, offers a range of local professional services in high-tech consulting and information technology for large companies.

A long-term user of Altair's HyperMesh and OptiStruct software, SOGETI High Tech now plans to extend the use of those tools, as well as implement HyperStudy for consulting projects that require structural meshing, morphing and topology optimization. Until now, SOGETI High Tech has used HyperWorks tools primarily for applications within the aerospace industry, but plans to extend its use of the CAE suite to projects in other industries.

"We have been using HyperWorks for four years now, and have always been very satisfied with the results," said Philippe Sottocasa, technical manager of the SOGETI High Tech Branch. "HyperMesh is the best tool available for structural meshing. With our work, we strive to improve simulation processes

not only within our company but also in customer projects. Thanks to HyperWorks, we are able to meet customer demands for simulation-based consulting tasks while shortening the simulation process."

"We are very pleased to see SOGETI High Tech taking greater advantage of the HyperWorks framework," said Mauro Guglielminotti, managing director of Altair Engineering in France. "As we have seen in several European countries - - and now in France -- a growing number of consulting companies recognize the value our tools bring to the product design process. The CAE framework for product design combines many capabilities under one interface and fulfills our customers' extremely varied engineering requirements."

About the SOGETI Group

SOGETI Group is a 100-percent subsidiary of the Capgemini Group. SOGETI offers a range of local professional services in high-tech consulting and information technology for large companies through three complementary areas:

High Tech or High Tech Consulting

SOGETI High Tech provides a local service through its network of over 35 offices around Europe (Sweden, The Netherlands, UK, Germany, Belgium, France and Spain). At the same time, as part of the Capgemini Group, SOGETI High Tech can provide the competitive benefits of a global network of onshore, near shore and offshore solution centers. From more than 20 years of accumulated experience, SOGETI High Tech assures the highest responsiveness and flexibility while always adhering to customer standards of quality, methodology and integrity. With more than 3,000 engineers and multi-stakeholder expertise, we can deliver our contribution at many stages: Consulting, audit and expertise, outsourcing R&D managed services, turnkey fixed-price projects, application management, operational services and training.

Application Services or Systems Integration

From the conception to the maintenance of the information system: consulting, architecture, contracting owner's assistance, development, integration, testing and maintenance of application assets.

Infrastructure Services or Integration Management and Systems Administration

From the integration of technical infrastructures to the implementation of the IT system: consulting, technical architecture, engineering, integration, installation and administration of systems and networks, implementation management and user support.

SOGETI Group has more than 15,000 professionals worldwide.

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Three Not-So-Little Words are the Key to Detroit Automakers' Survival

8 January 2007

The following are the comments of Ulrich Herter, [INCAT](#) Chief Executive Officer:

This month, the North American International Auto Show (NAIAS) in Detroit marks its 100th anniversary and the celebration will be highlighted by the introduction of more than 45 new products by automakers from around the world including – for the first time at this show – from China.

Quite an evolution for an event first conceived and launched in 1907 as the Detroit Auto Show by Detroit's Big Three automakers to highlight their products – both current and future. As this year's event opens, analysts predict that, by 2009, fewer than half of all vehicles sold in the United States will be made by Detroit's Big Three. Further, by 2011, foreign-owned automakers will build more cars in the United States than domestic automakers, according to the Ann Arbor, Mich., based Center for Automotive Research.

Some, including much of the media, see these projections as failure and/or bad news for the domestic carmakers. I disagree. Having a smaller market share and building fewer units can be a sign of success and, in fact, good news – if the products introduced are right for the market and profitable for the automaker.

The right product at the right time doesn't happen by accident, nor is it simply a result of visionary design, mixed with just the right amount of "car guy" intuition. The right product – or products – results from successful application of Product Lifecycle Management (PLM).

Product Lifecycle Management is a business approach which deploys different technologies to the creation, and to the entire lifecycle, of a company's products. Companies who understand and deploy this approach correctly are able to repurpose existing designs better, recognize problems with components and assemblies faster and integrate focus groups and suppliers much tighter in the development process. As a result, they lower their development costs and are able to get new products to market much faster. And getting more "hits" from the development budget is the key to any automakers' success in a crowded and cut throat market.

PLM is an approach utilized by all leading product-centric companies. It is, to some extent, used everywhere in the auto industry – by the global OEMs and throughout the supply chain – but it is seldom acknowledged, and certainly never celebrated as the key to lasting market success.

For every automaker, everywhere in the world, product is king. It is the goal of every automaker to have the next aspiration "hit" model for which consumers clamor. Achieving this goal once makes an impact. Achieving this goal several times makes an impact and makes news. Achieving this goal consistently does all that and secures market share as well as ensures the sustained viability and profitability of the organization.

Even if Detroit's Big Three evolve to become simply "Detroit's Three," as some analysts predict, through effective use of PLM, they will stabilize their place in the world market and secure and sustain their profitability. By those important measures, they'll still be the "Big Three."

NAIAS Note: INCAT engineers, designers and consultants had a hand in the creation of about 15 percent of the models introduced at this year's North American International Auto Show in Detroit.

Ulrich Herter, [INCAT](#) Chief Executive Officer

Mr. Herter earned a B.A. in Economics at the University of Freiburg. He moved to the United States to obtain an M.B.A. at Wayne State University, in Detroit. From 1977-1987, Mr. Herter worked for a national appliance retail chain, as Director of Operations. From 1988-1989, he served as Vice President of Operations at O/E Systems, a computer reseller in Troy, Michigan. Mr. Herter co-founded Integrated Systems Technologies (IST) in 1989, serving as its Chairman and CEO through its merger with INCAT Ltd. in May 2000. He continued as CEO of the combined organization through its IPO in 2004 and has remained CEO through the acquisition of INCAT by Tata Technologies in 2005. Mr. Herter is based at the INCAT North American headquarters in metro Detroit and is a keen observer of the worldwide automotive industry.

The INCAT "Essential Guide to PLM"

To learn more about the history of PLM, its ongoing evolution and its application across industries, request a copy of the INCAT "Essential Guide to PLM," either in booklet form or as a PDF by visiting <http://www.incat.com/plmguide>.

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Events News

Open Text Readies Summit 2007 Conference: Worldwide Event for Hummingbird Customers and Partners

10 January 2007

Open Text™ Corporation said today it will showcase the latest in ECM solutions, as well as present details on its strategy and product roadmap, at Summit 2007, the first worldwide user conference for Hummingbird customers and partners since Open Text acquired Hummingbird in October. Summit 2007, which will include some 900 attendees, will be held in Huntington Beach, California, February 11-14.

The conference gives Hummingbird customers and partners the opportunity to meet with Open Text executives, hear firsthand about the company's strategy and learn more about the company's broad portfolio of ECM products and solutions. At the event, Open Text will provide more details on product plans including continued support for the Livelink ECM - eDOCS products, formerly Hummingbird Enterprise, and new capabilities planned for 2007 and beyond.

"We have pulled together an extensive agenda for Summit 2007," said John Shackleton, President and Chief Executive Officer at Open Text. "Attendees will learn about the latest in ECM technology, share success stories with peers from organizations around the globe, and discover the entire range of innovative solutions aimed at complementing and extending the value of their investments in Livelink ECM - eDOCS."

"Be Inspired!"

The theme for Summit 2007 - "Be Inspired!" - reflects the creativity and enthusiasm that drives organizations to do more than just manage and control content. With more than 80 business and technical break-out sessions, including customer presentations and partner demonstrations, attendees will learn about innovative approaches to their business challenges. Special industry tracks will feature solutions in government, financial services, regulated industries, commercial, and legal.

Senior executives, corporate technology managers and executives from leading organizations around the world will converge and network with their peers, as well as the management, sales and marketing, and technical staff of Open Text. Conference events, including hands-on pre- and post-conference tutorials, will address all aspects of the Livelink ECM - eDOCS Suite and the benefits of the new product integrations and new capabilities Open Text is launching in Livelink ECM 10 (<http://www.opentext.com/news/pr.html?id=1799>). The event will also feature detailed technical sessions and workshops, including one-on-one consultations with technical experts and Open Text executives.

Attendees will also have the opportunity to hear from their peers across various industry sectors and view demonstrations of a full complement of business solutions such as RedDot CMS and LiveServer content management and delivery software from Open Text's RedDot Web Solutions Group.

For Hummingbird partners, Open Text will be holding a Partner Day on February 11th. The agenda will include a presentation from Open Text executives, and a panel discussion.

Summit 2007 Registration and Venue Information

Registration for Summit 2007 is now open. Complete conference and registration information is available at <http://events.opentext.com/summit/2007/geninfo.html>. The interactive Open Text "My Agenda" system will allow attendees to plan their Summit 2007 experience directly from the Web site.

Summit 2007 will take place at the Hyatt Regency Huntington Beach Resort & Spa in California. For more information and to book reservations, visit the conference Web site at: <http://events.opentext.com/summit/2007/hotel.html>.

For more information about Summit 2007, go to: <http://www.opentext.com/summit>.

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Registration Now Open For User2User 2007, the International Mentor Graphics User Conference

11 January 2007

Mentor Graphics Corporation announced that registration is now open for User2User (U2U) 2007, its International User Conference. Workshops will be held March 13, with the conference running March 14 – 15, 2007. U2U takes place at the San Jose Marriott and Convention Center, San Jose California. Register online at: <http://www.mentor.com/user2user/>.

U2U is a highly interactive, in-depth technical conference which focuses on the needs of the entire Mentor Graphics user community. The primary goal is to deliver immediately useful technical content. Attendees from around the world network with other customers and gain practical knowledge and product information found only at this conference.

This year's conference will feature special keynote speaker Craig Newmark, founder of Craigslist.com. The Craigslist Web site is now one of the Internet's most popular gathering sites, used across the world for everything from finding homes and jobs to bartering merchandise. The site challenges the foundation of existing businesses by turning services for which people used to pay money for into free ones. Craig, a former systems engineer for IBM who also worked for Charles Schwab, will share his thoughts on the Craigslist phenomenon.

U2U offers:

- 20 conference workshops: Gain in-depth, hands-on product knowledge in these half-day or full day sessions offered by Mentor engineers.
- Customer presented technical sessions: 14 technical tracks offer real world examples from other Mentor customers on how they use Mentor tools to solve their design problems.
- Usability lab: Interactive sessions enable attendees to give Mentor technical writers and product representatives direct feedback on product improvements.
- Management track: This track addresses issues of importance to business, management, and CIO/CTO/CAD executives.
- Exclusive Mentor product information: See how new products and innovative features benefit your projects.
- Network with peers: Share your expertise and learn from other attendees from around the world. Find other users who have resolved the same design challenges you are facing.

- Meet with Mentor executives, support and engineering staff: Discuss flow issues, product specifics, and support questions face-to-face with Mentor technical experts and product line executives.

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Sequence Bringing All-Star, Power-Aware EDA Lineup to Japan's EDSF; 2007 Electronic Design and Solution Fair

8 January 2007

Sequence Design will again be exhibiting its all-star lineup of power-aware tools along with award-winning extraction technologies at Japan's 2007 Electronic Design and Solution Fair (EDSF) in Yokohama, Japan, January 25-26.

At Sequence's Booth No. 403, the company will show enhanced versions of its low-power analysis and optimization tools, including PowerTheater 65, CoolTime, CoolPower and CoolCheck. In addition, corner modeling and other new features for the award-winning Columbus extraction suite will make their debut at EDSF.

"Japan is rapidly moving to 65nm, presenting new challenges to control leakage power and manage the physical effects of power," said Sequence president and CEO, Vic Kulkarni. "We believe the intelligent and concurrent power-aware flows and methodologies we bring to this year's EDSF not only meet these challenges, but set the stage for the next leap forward in semiconductor technology."

Those interested in scheduling a meeting with Sequence during EDSF may contact Aki Momokawa, amomokawa@sequencedesign.com, or telephone 03-5777-1807. For more information on EDSF: <http://www.edsfair.com>.

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SolidCAM to Exhibit at SolidWorks World 2007

12 January 2007

SolidCAM will exhibit at SolidWorks World 2007. This international user conference and exposition takes place in the newly renovated Morial Convention Center in New Orleans, U.S.A., from February, 4 - 7, 2007.

SolidCAM2007 is the Gold-Certified integrated CAM engine for SolidWorks® 2007 software and provides, single-window integration and full associativity with SolidWorks. [SolidCAM](#) will show a preview of the new SolidCAM2007 R11.1 version at [SolidWorks World](#). This version complements the main SolidCAM2007 R11 release, which was introduced in the autumn of 2006. While the main R11 release is primarily targeted to the Tool and Die market with its new module for high-speed machining of complex 3D parts, the R11.1 version adds important extensions for production applications. The

automatic feature recognition capabilities are greatly enhanced with the addition of a powerful automatic pocket recognition and machining capability, that complements the existing versatile interactive pocket definition tools. This new feature can handle any prismatic part with multiple, complex, interconnected pockets. For the shop floor user, the documentation and toolsheet output is now available in XML-format and customizable. The mill-turn module has been greatly extended to support 4 and 5 axes mill-turn centers such as Mazak Integrex and Okuma MacTurn. The new R11.1 version will also provide a photorealistic machine simulation with toolcutting verification for turning and mill-turn machines. This will improve the optimum part setup and avoid unnecessary tests on the actual machines.

Emil Somekh, managing director of SolidCAM, stated, “Last year, a lot of new customers purchased the combined SolidWorks / SolidCAM solution. We are looking forward to meeting them at SolidWorks World 2007, to demonstrate the software’s power in integration and manufacturing automation.” Emile Bloemen, strategic sales manager, Europe for SolidWorks Corporation, added, “The successful partnership with SolidCAM gives SolidWorks a better competitive position for applications where integrated CAD/CAM solutions are essential. Using SolidCAM and SolidWorks, our customers can not only design better products, but also streamline design time and reduce costs throughout the entire manufacturing process.

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Financial News

Apache Closes a Record Fourth Quarter with Continued Profitability

8 January 2007

[Apache Design Solutions](#) announced that the company has achieved its 16th consecutive quarter of record bookings and revenue, with increasing profitability. By adding two new top-tier customers in Q4, Apache’s power and noise solutions are now adopted by all of the top 5 semiconductor and top 5 fabless semiconductor companies. Contributions to Apache’s Q4 business growth came from multiple products including RedHawk-EV for dynamic power integrity, RedHawk-LP for low-power design management, and PsiWinder for full-chip clock jitter analysis.

“We are pleased that our customers continue to place their trust in our solutions and have selected Apache even without benchmarks,” stated Craig Shirley, vice president of worldwide sales at Apache. “This demonstrates that Apache is addressing the market’s critical silicon integrity needs and delivering worldwide post-sales support with dedicated expertise. Our leading edge technologies and world class support team will continue to drive our growth into 2007.”

“In 2006, we saw dynamic power and low power become a sign-off requirement for the majority of leading semiconductor and fabless semiconductor companies,” stated Andrew Yang, CEO of Apache. “This requirement along with PsiWinder’s ability to address our customer’s immediate need for a clock jitter analysis tool that correlates with silicon measurement drove our growth in 2006. Going into 2007, we are very excited about our roadmap for complete silicon integrity platform solution that leverages our leadership position in power sign-off.”

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Cideon Software Announces Successful Year 2006

2 January 2007

The ending fiscal year 2006 at October, 31st. was extremely successful for [CIDEON AG](#). The turnover has increased about 23% to 20 Mio. € in comparison to last year. There's been a particular keen demand of CIDEON Software solutions for the mySAP PLM integration for Autodesk products and the Plot- and Outputmanagement. The growth of turnover in international sales has increased rapidly. The CIDEON Software team will expand above 10% due to the keen demand.

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Dassault Systèmes Schedules Fourth Quarter and Full Year 2006 Conference Call Webcast for February 14, 2007

11 January 2007

Dassault Systèmes (DS) will host a conference call on Wednesday, February 14, 2007, to discuss its operating performance for the fourth quarter and full year 2006 ended December 31, 2006.

The management of Dassault Systèmes will host the conference call at 9:00 AM New York Time – 3:00 PM Paris Time to discuss the Company's operating performance.

The conference call will be available via the Internet by accessing Dassault Systèmes' website at <http://www.3ds.com/corporate/investors/>. Follow the directions on the main page to link to the audio. Please go to the website at least fifteen minutes prior to the call to register, to download and install any necessary audio software. The webcast will be archived for 30 days.

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Mentor Graphics Reports Preliminary 2006 Results Fourth Quarter Revenue and Bookings Hit Records

9 January 2007

In anticipation of a presentation today at the Ninth Annual Needham & Co. Growth Conference, [Mentor Graphics Corporation](#) announced preliminary fourth quarter 2006 results. Fourth quarter 2006 bookings and revenues will achieve record levels. Revenues will be in excess of \$240 million, exceeding the Thomson First Call consensus estimate of \$231 million. The company expects to exceed its previous fourth quarter profit guidance.

Three of four product categories set new annual revenue and bookings records, and three product categories also set quarterly revenue and bookings records. The Scalable Verification and New and Emerging categories showed particular strength in both bookings and revenue.

Fourth quarter book-to-bill reached near record levels.

The company emphasized that the foregoing results are preliminary and are subject to adjustments upon final closing of financial results and completion of the annual audit by independent accountants. Mentor Graphics will release fourth quarter and full year 2006 results after the close of the market on Thursday, February 1, 2007.

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MSC.Software Reports Preliminary Revenue Results for the Fourth Quarter Ended December 31, 2006

9 January 2007

[MSC.Software Corporation](#) announced preliminary revenue results for the fourth quarter ended December 31, 2006.

For the fourth quarter ended December 31, 2006, the Company expects to report revenue in the range of \$65 -- \$68 million. This revenue range falls within First Call estimates for fourth quarter revenue. The revenue range is an estimate and may change pending the Company's management and independent auditor's completion of their normal quarterly closing and review procedures.

The Company expects to report fourth quarter results the week of February 26th and file its Form 10-K for the fiscal year ended December 31, 2006 on March 1st.

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Open Text to Report Second Quarter Financial Results on Thursday, February 8, 2007

9 January 2007

Open Text™ Corporation announced that financial results for its second quarter of fiscal 2007 will be released on Thursday, February 8, 2007 at approximately 4:00 p.m. ET.

Teleconference Call

Open Text will host a conference call on February 8, 2007 at 5:00 p.m. ET to discuss the final financial results of its second quarter.

Date: February 8, 2007

Time: 5:00 p.m. ET/2:00 p.m. PT

Length: 60 minutes

Where: 416-640-1907

Please dial-in approximately 10 minutes before the teleconference is scheduled to begin. A replay of the call will be available beginning February 8, 2007 at 7:00 p.m. ET through 11:59 p.m. on February 22, 2007 and can be accessed by dialing 416-640-1917 and using pass code 21215721 followed by the number sign.

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

http://www.opentext.com/investor/investor_events/.

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PTC® to Host First Quarter 2007 Results Conference Call and Webcast on January 24, 2007

8 January 2007

PTC expects to release first quarter fiscal 2007 results before the market opens on Wednesday, January 24, 2007. Following the issuance of the press release, the Company will host a conference call and simultaneous webcast to discuss the results with investors. The earnings press release and accompanying financial and operating statistics will be accessible prior to the conference call and webcast on the Company's web site.

WHO:

Dick Harrison, president and chief executive officer

Neil Moses, executive vice president and chief financial officer

WHEN:

January 24, 2007, 10:00 a.m. (ET)

DIAL-IN:

888-566-8560 (U.S.); 517-623-4768 (International). Please use passcode PTC.

WEBCAST:

To access the live webcast of the conference call, please visit <http://www.ptc.com/for/investors.htm>.

REPLAY:

A replay of the call will be available until 5:00 p.m. (ET) on January 29, 2007. To access the replay by phone, dial 402-220-9741. To access the replay via webcast, please visit <http://www.ptc.com/for/investors.htm>.

Quarterly conference calls will be archived for public replay for a period of three (3) business days from the date of the live call. Please note that statements on the call are as of the date of the call and PTC does not assume any obligation to update any statements made on the call or the archived call. In addition, matters discussed may include forward-looking statements about PTC's anticipated financial results and growth, as well as about the development of products and markets, which are based on current plans and assumptions. Actual results in future periods may differ materially from current expectations due to a number of risks and uncertainties, including those described from time to time in reports filed by PTC with the U.S. Securities and Exchange Commission, including PTC's most recent reports on Forms 10-K and 10-Q.

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SAP Announces 2006 Preliminary Results

11 January 2007

SAP AG announced that after a preliminary review of its 2006 fourth quarter results, it expects fourth quarter product revenues to be approximately euro 2.20 billion, representing an increase of around 8% (around 12% at constant currencies)(1) compared to fourth quarter 2005 product revenues of euro 2.04 billion. Full-year 2006 product revenues are expected to be approximately euro 6.64 billion, representing an increase of around 11% (around 13% at constant currencies)(1) compared to product revenues of euro 5.96 billion reported for the full-year 2005.

In the fourth quarter 2006, the Company expects software revenues to contribute approximately euro 1.26 billion to product revenues, representing an increase of around 7% (around 12% at constant currencies)(1) compared to fourth quarter 2005 software revenues of euro 1.18 billion. Accordingly, the Company expects full-year 2006 software revenues to be approximately euro 3.10 billion, representing an increase of around 11% (around 13.5% at constant currencies)(1) compared to full-year 2005 software revenues of euro 2.78 billion.

2006 represented another year of strong share gains for SAP. Based on the 2006 preliminary software revenue results, SAP's worldwide share of Core Enterprise Applications vendors(2), which account for approximately \$16.4 billion in software revenues as defined by the Company based on industry analyst research, on a rolling four quarter basis is expected to be around 24.2% at the end of the fourth quarter of 2006, representing around 3.0 percentage points of share gain for 2006 compared to 2005.

CIMdata PLM Industry Summary

Total revenues for the fourth quarter of 2006 are expected to be approximately euro 2.95 billion, which is an increase of around 7% (around 12% at constant currencies)(1) compared to euro 2.75 billion reported for 2005. Total revenues for the full-year 2006 are expected to be approximately euro 9.43 billion, which is an increase of around 11% (around 12% at constant currencies)(1) compared to euro 8.51 billion reported for 2005.

On the basis of these figures, SAP expects its full-year 2006 adjusted operating margin(1) to increase between 0.6 and 0.7 percentage points compared to 2005 (28.3%). The 2006 adjusted operating margin(1) can be reconciled to the operating margin by adjusting operating income for stock-based compensation (approximately euro 99 million) and acquisition-related charges (approximately euro 43 million).

Adjusted earnings per share(1) for the full-year of 2006 are expected to reach at least euro 1.59 (based on the share count after the previously announced issuance of new shares)(3) or euro 6.36 (based on the share count before the previously announced issuance of new shares)(3). Earnings per share for the full-year of 2006 are expected to reach at least euro 1.50 (based on the share count after the previously announced issuance of new shares)(3) or euro 6.00 (based on the share count before the previously announced issuance of new shares)(3). Full-year 2006 earnings per share and adjusted earnings per share(1) were positively impacted primarily by some one-time effects in both the second and the fourth quarters of 2006 reducing the Company's effective tax rate.

The following table provides information comparing the previously disclosed full-year 2006 outlook and the full-year 2006 actual results:

	SAP's Outlook FY 2006	Actual Performance FY 2006
Product revenue growth (at constant currencies ¹)	13% - 15% "Less likely that growth will reach the upper end of the range"	Around 13%
- based on software revenue growth (at constant currencies ¹)	15% - 17% "Less likely that growth will reach the upper end of the range"	Around 13.5%
Adjusted operating margin increase ¹	Increase of 0.5 – 1.0 percentage points "Less likely that the adjusted operating margin increase will reach the upper end of the range"	Increase of 0.6 – 0.7 percentage points
Adjusted earnings per share ¹	€1.45 to €1.50 per share (based on the share count after the previously announced issuance of new shares ³) "Slightly above the previously communicated range"	Expected to reach at least €1.59 (based on the share count after the previously announced issuance of new shares ³); positively impacted primarily by some one-time effects in both the second and the fourth quarters of 2006 reducing the Company's effective tax rate.
Share of core enterprise application vendors ²	Not provided	24.2% (increase of around 3.0 percentage points for the full year of 2006)

SAP will provide further details of its 2006 preliminary results and outlook for the full-year 2007 on January 24th.

Additional information:

Regional Performance

	FY 2006 Software Revenue Approximate	Q4 2006 Software Revenue Approximate	FY 2006 Software Revenue Approximate	Q4 2006 Software Revenue Approximate

CIMdata PLM Industry Summary

	Constant Currency ¹ Growth Rate	Constant Currency ¹ Growth Rate	Actual Growth Rate	Actual Growth Rate
EMEA	10%	14%	10%	13%
Germany	7%	8%	7%	8%
Americas	18%	10%	15%	0%
U.S.	17%	15%	13%	4%
Asia- Pacific	12%	9%	8%	2%
Japan	17%	14%	8%	4%

All regional growth rates are preliminary, rounded numbers

The EMEA region, including Germany, performed well in the fourth quarter and for the full-year as renewed customer buying in the second half of 2006 pushed constant currency(1) software revenue growth into double digits for the EMEA region and higher than expected upper single digits for Germany. Like EMEA, Japan also reported a resurgence in software revenues in the second half of the year leading to a robust, full-year 2006 constant currency(1) software revenue growth of 17%. Meanwhile, the U.S. reported another year of strong double digit software revenue growth.

(*) SAP defines business software as comprising enterprise resource planning and related applications such as supply chain management, customer relationship management, product life-cycle management and supplier relationship management.

Footnotes

1) Non-GAAP Measures:

This press release may disclose certain financial measures, such as adjusted operating income, adjusted operating margin, adjusted expenses, adjusted net income, adjusted earnings per share (EPS), and currency-adjusted year-on-year changes in revenue and operating income, which are not prepared in accordance with U.S. generally accepted accounting principles (U.S. GAAP) and are therefore considered non-GAAP measures. These non-GAAP measures were formerly referred to as "pro forma," but are now referred to as "adjusted;" however, there has been no change in the manner in which those measures are calculated. The non-GAAP measures that SAP reports may not correspond to non-GAAP measures that other companies report. The non-GAAP measures that SAP reports should be considered as additional to, and not as a substitute for or superior to, operating income, operating margin, cash flows, or other measure of financial performance prepared in accordance with U.S. GAAP. The non-GAAP measures included in this report are reconciled to the nearest U.S. GAAP measure.

Adjusted operating income, adjusted operating margin, adjusted expenses, adjusted net income, adjusted earnings per share (adjusted EPS)

SAP believes that adjusted operating income, adjusted operating margin, adjusted net income, and adjusted EPS, all based on adjusted expenses, provide supplemental meaningful information that can help investors assess the financial performance of the Company using the same measures that SAP uses in its internal management reporting.

The following expenses are eliminated from adjusted expenses, adjusted operating income, adjusted operating margin, adjusted net income, adjusted EPS, and other adjusted measures:

- Stock-based compensation, including expenses for stock-based compensation as defined under U.S. GAAP, as well as expenses related to the settlement of stock-based compensation plans in the context of mergers and acquisitions. SAP excludes stock-based compensation expenses because it has no direct influence over the actual expense of these awards once it has entered into stock-based compensation commitments.
- Acquisition-related charges, including amortization of identifiable intangible assets acquired in acquisitions of businesses or intellectual property. Although acquisition-related charges include recurring items from past acquisitions, such as amortization of acquired intangible assets, they also include an unknown component relating to current year acquisitions for which the Company has not yet finalized its purchase price allocation and therefore, cannot accurately assess the impact of the acquisition related charges.
- Impairment-related charges include other-than-temporary impairment charges on minority equity investments. These charges are excluded because they are outside the control of the Company's management.

The adjusted measures disclosed are the same measures that SAP uses in its internal management reporting. Adjusted operating income is one of the criteria, alongside the software revenue increase, for performance-related elements of management compensation.

In addition, SAP gives full year and long term guidance based on non-GAAP financial measures. The guidance is provided on adjusted operating performance excluding stock-based compensation expenses and acquisition-related charges to focus on components that reflect the operational performance that management can directly influence and reasonably forecast for the periods covered by the guidance.

Constant-Currency Period over Period Changes

SAP believes it is important for investors to have information that provides insight into its sales growth. Revenue amounts determined under U.S. GAAP provide information that is useful in this regard. Period-over-period changes in such revenue amounts are impacted by both growth in sales volume as well as currency effects. Under its business model SAP does not sell standardized units of products and services. Therefore SAP cannot provide relevant information on sales volume growth by providing data on the growth in product and service units sold. In order to provide additional information that is useful to investors in evaluating sales volume growth SAP presents information about its revenue and income growth adjusted for foreign currency effects. SAP calculates constant-currency period over period changes in revenue and income by translating foreign currencies using the average exchange rates from 2005 instead of 2006. Constant-currency period over period changes should be considered in addition to, and not as a substitute, or superior to, changes in revenues, expenses, income or other measures of financial performance prepared in accordance with U.S. GAAP.

2) Core Enterprise Applications Vendor Share

In previous quarters, worldwide peer group share was provided based on a peer group of Microsoft Corp. (business solutions segment only), Oracle Corp. (business applications only) and Siebel Systems, Inc. The Company believes that after the large amount of consolidation that has occurred among the larger companies in the software industry, the peer group has become too small to provide an adequate metric for the purpose of measuring growth of sales share.

Therefore, the Company will now be providing share data based on the vendors of Core Enterprise Applications solutions, which account for approximately \$16 billion in software revenues as defined by the Company based on industry analyst research. For 2006, industry analysts project approximately 4% year-on-year growth for core Enterprise Applications vendors. For its quarterly share calculation, SAP assumes that this approximate 4% growth will not be linear throughout the year. Instead, quarterly adjustments are made based on the financial performance of a sub set (approximately 30) of Core Enterprise Application vendors.

3) See Company's press release dated December 15, 2006, "[SAP Announces Timeline for 'Bonus' Shares](#)".

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Implementation Investments

Aerospace Manufacturer Selects Ingenuus to Automate Product Data and Optimize Processes

8 January 2007

[Ingenuus Software Inc.](#) announced that Teledyne Controls, a division of Teledyne Technologies Inc. has selected Ingenuus Process Orchestration Software to automate their engineering and product data and to optimize their business processes.

Teledyne Controls, located in Los Angeles, California, is an industry leader designing and manufacturing avionics and ground-related electronic systems for commercial air transport, business and regional aviation, government and defense applications. Controls will begin using Ingenuus to manage engineering change orders related to product data. Once product data is under control, Ingenuus will be used to automate other horizontal processes to improve quality and efficiency.

“Teledyne Controls is focused on providing products and services that improve safety and efficiency for the aviation community,” says Ingenuus CEO Christopher Williams. “Using Ingenuus, they will be able to improve the efficiency of their engineering data management with significant contribution to the bottom line.” Preliminary estimates show a \$500,000 annual savings using the Ingenuus software.

“With our software, Controls will be able to control process activities and get visibility into process status,” explains Williams. Being able to see what is happening in real time, while also being alerted automatically by the system when something is late, means being more proactive rather than reactive. In many cases, an early task that becomes late, such as a part on backorder, has a trickle down effect that can be eliminated or reduced if the problem is seen quickly enough. “The sooner you know something is wrong, the quicker it can be fixed,” says Williams. “And that saves time and money.”

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Apache Selected by STMicroelectronics to Address the Upcoming 45nm Design Challenges

8 January 2007

[Apache Design Solutions](#) announced that STMicroelectronics, one of the world's largest semiconductor manufacturers, has selected Apache to jointly address the anticipated 45nm physical design challenges. The ST-Apache co-operation, codenamed STAP-45, will focus on all areas of silicon integrity, including low power, noise, timing, thermal, reliability and chip-package from 90nm to 45nm.

By collaborating with an EDA partner, ST plans to address the upcoming design challenges such as leakage vs. performance trade-off and on-chip variation (OCV) and timing convergence, as well as cost management through reduction of excessive margin, improvement of time-to-market, and avoidance of potential yield loss. Through STAP-45, ST will have early access to Apache's advanced technologies for silicon integrity platform, along with existing products such as RedHawk-EV with FAO, RedHawk-LP, PsiWinder, and Sahara-PTE. In addition, ST will provide Apache with valuable technical expertise on 45nm design processes.

"As we move towards the 45nm design process, forging partnerships with advanced EDA solution providers is a critical component in managing the anticipated challenges. We selected Apache as our partner for power and noise integrity as they have continuously demonstrated expertise and technical vision in this very important and difficult area," said Philippe Magarshack, Group Vice President, Central CAD and Design Solutions general manager at STMicroelectronics. "By collaborating with Apache, we expect to gain early exposure to new silicon integrity issues which will help reduce our potential risk for the first 45nm production design."

"ST is leading the pack in the move towards 45nm and we are excited to partner with them in meeting the upcoming design challenges," said Andrew Yang, CEO of Apache. "We look forward to the technical collaboration with ST and gaining their insight to further develop new solutions in our silicon integrity platform."

About Apache's Silicon Integrity Platform

Apache's Silicon Integrity Platform (ASIP) is a fully integrated physical design analysis, debugging, and optimization platform that considers the impact of all noise sources associated with advanced nanometer designs. ASIP considers concurrent and interdependent effects of advanced nanometer phenomena such as dynamic power, leakage, crosstalk, package/system IO, temperature, and substrate noise on silicon behavior to ensure first-silicon tapeout success. This vendor-neutral platform enables designers to adopt any industry-standard physical design flow, while providing a unified environment of extraction, characterization, simulation, and optimization for design analysis and optimization. ASIP delivers transistor-level accuracy with cell-based capacity and performance to address today's toughest design challenges. ASIP addresses the following critical aspects of silicon integrity signoff:

RedHawk-EV with FAO

A full-chip Vectorless Dynamic power analysis and optimization solution addressing dynamic power issues such as simultaneous switching output (SSO) for core, memory, clock, and IO, as well as effects of on-chip inductance, package RLC, and decoupling capacitance. RedHawk with FAO automatically repairs sources of supply noise and optimizes designs to minimize power and leakage, while maintaining integrity.

RedHawk-LP

A dynamic power integrity solution for low-power and leakage management designs utilizing advanced techniques such as MTCMOS, multi-Vth, multiple voltage domains, and active-biasing. RedHawk-LP provides transient ramp-up (power-up) simulation for accurate performance vs. leakage optimization, as well as full-chip mixed-mode analysis.

PsiWinder

A clock network integrity and critical path timing sign-off solution that considers the concurrent and interdependent effects of signal integrity (crosstalk noise) and power integrity (dynamic voltage drop and ground bounce) on clock network and critical path timing. PsiWinder delivers Spice-level accuracy within a cell-based flow, enabling designers to gain a much more realistic view of clock jittering and skew, as well as the setup and hold time violations in the critical paths.

Sahara-PTE

Industry's first fully integrated power-thermal-electrical analysis and debugging solution for SoC designs with built-in power/thermal/noise library, an incremental RLC extraction for power, noise, and temperature, and tightly coupled high-capacity, high-performance power-thermal-electrical analysis engine. Sahara-PTE enables designers to analyze the impact of temperature on leakage, timing, voltage-drop, and reliability.

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ASCON Invests in Future CAD Specialists

27 December 2006

ASCON Group celebrates anniversary of its Educational Program. Vyksa Metallurgic Technical School became the 600th participant who joined the community of institutions teaching their students with KOMPAS software solutions. The technical school equipped 90 seats with KOMPAS-3D - software for parametric 3D modeling and KOMPAS-Autoproject – software for Computer Aided Process Planning.

ASCON Educational Program, launched over 10 years ago, aims at training and popularization of professional CAD solutions among future specialists, designers and engineers. ASCON suggests Educational Institutions the very attractive conditions for equipping student class-rooms with KOMPAS-3D and also initiates a lot of activities for students training, communication, maturation.

The jubilee KOMPAS-3D educational license was granted to technical school at round table held by ASCON: “Education — Industry — Business: Personnel Training in the field of IT”. Round table took place in Vyksa, Nizhny Novgorog region and gathered representatives of educational institutes, teachers, government officials, HR and IT managers, local press representatives.

During the session participants discussed enterprises’ requirements to graduates of educational institutions in the IT-area, opportunities for implementing different training programs and equipping student class-rooms. Olga Kalyagina, coordinator of ASCON educational program, presented the results of ASCON educational program and shared the achievements of students studying CAD technologies with KOMPAS solutions.

Schools and institutes representatives told about their plans in developing engineering courses. Alexander Krashennikov, principal of Vyksa technical school, mentioned advantages of using licensed professional CAD solutions at the institutes.

Alexander Krotikov, IT director of JSC “Ruspolymet” (Kulebaki Metallurgic Works) told about their plans of automation: “In December we will open new technical center and we will equip it with ASCON solutions. Although there will be other programs at 1-2 workplaces, but KOMPAS-3D will become our basic CAD system”.

ASCON’s Educational Program shows how future engineers can be effectively trained with professional software solutions. Thousands of graduates qualified in modern design technologies come to enterprises yearly. They directly create new economics of the countries. Among the leading institutes of higher education — ASCON solutions users: Moscow Aviation Institute (State technical university), Baltic State Technical University «VOENMECH» (Saint-Petersburg), Samara State Technical University, Donetsk National Technical University, Karaganda State Industrial University, Vitebsk State Technological University.

ASCON cordially invites Training Centers, Schools, Colleges and Universities to join its Educational Program for professional Computer Aided Design.

Find more about ASCON Educational Program from Your Nearest KOMPAS-3D Distributor or contact ASCON directly: contact@ascon.ru or +7(812)703-39-33.

ASCON on the WEB: <http://www.ascon.ru/english>.

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Customer Adoption Rate of Cadence SystemVerilog Triples and Moves Into Mainstream Development

8 January 2007

[Cadence Design Systems, Inc.](#) announced that its verification solutions based on SystemVerilog grew over the last year from approximately 40 customers experimenting with the language to more than 150 customers using the language in either prototype projects or mainstream product development. The company attributed the accelerated growth rates to the dramatic increase in SystemVerilog language support, extended multi-language functionality, the Cadence® Incisive® Plan-to-Closure Methodology, and newer advanced SystemVerilog verification technologies.

A recent user survey by Cadence indicated which customers were using different portions of SystemVerilog today. Among those customers, approximately 57 percent are using design constructs, 60 percent are using assertions, and 57 percent are using testbench constructs. More than 50 percent of the 150 customers using SystemVerilog with the Cadence Incisive verification platform and solutions are using it for mainstream product development.

"SystemVerilog verification is an important aspect of our overall verification strategy, and it will help us maintain the quality our wireless customers demand," said Simon Knowles, vice president, Silicon, at Icera. "We have been impressed with the Cadence verification expertise in SystemVerilog and their comprehensive infrastructure of metric-driven verification solutions."

"The key factor that made us decide to use the Incisive Design Team family came after we evaluated the SystemVerilog portion against competing solutions on the market," said Ron Eliyau, Tulip Division general manager, at Saifun. "Verification is critical to maintaining the capability and high reliability that differentiates our non-volatile memory products. With Cadence SystemVerilog products, the Incisive Plan-to-Closure Methodology, and the expertise of the Incisive verification team, we replaced 2000-line directed tests with 20-line SystemVerilog randomized tests."

"The Incisive Design Team family provided the SystemVerilog automation we needed to reduce our verification time by over 40 percent," said Vishwanath H., Verification lead at inSilica. "Cadence and the Incisive Plan-to-Closure Methodology for SystemVerilog enabled us to increase our quality and productivity and improve our methodology for future projects."

"We're excited to see the recent momentum around our verification solutions based on SystemVerilog," said Steve Glaser, corporate vice president, Verification Division at Cadence. "Our customers will only move to SystemVerilog if they have compelling reasons to do so. The evolution of our Plan-to-Closure Methodology, mixed-language support and advanced verification technologies has inspired a growing number of our customers to move to our SystemVerilog solutions."

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Embraer Reaches for Sky-High Savings With JETCAM Composite and Routing Nesting Software

5 January 2007

Embraer, based in Brazil, is one of the world's largest aircraft manufacturers, employing approximately 19,000 staff worldwide. Their original CAM system was purchased in the late 1990's to drive both their CNC routers and a Lectra conveyor knife cutter. The CAM software company ceased trading, so Embraer set about evaluating several systems. After a detailed research of the market, they finally benchmarked five systems. Commented Fernando Araújo, Manufacturing Engineer; "Of the five systems tested, two could not generate better nests than our existing system. JETCAM's nests were by far and away the most efficient. Besides this, when we approached JETCAM we felt that they had an open approach to our further requirements."

The system was installed in May 2004, and the composite programming was the first to be integrated to their ERP system using JETCAM's RCP (remote control processing) module, which immediately reduced their composite programming time by 6 hours across two shifts. "In our old process, we had to select the orders to be nested, wait until they were nested and sometimes manually redo a part or even the complete nest because the operator saw that it could be better optimized if made manually. After that, the operator had to select another "pack" of orders and do the same process again, spending all the day in front the PC. With JETCAM, the only time we spend is grouping the orders and generating the batch orders. After this, we press a button and come back later to get the results that are sent directly to the machine, without any rework."

While JETCAM was installed to drive both the composite and sheet metal technologies, Embraer concentrated on optimizing and automating the composites first due to the general manufacturing costs normally associated with them. With RCP already in place and delivering savings, they were surprised at the additional benefits that the FFHPN (free form high performance nesting) module provided. "Through less effort of programming we were achieving a 4% saving on our nest efficiency, which quickly mounts up to a considerable sum. We could also produce dynamic nests, and have much better flexibility with static nests due to revision control. We have some very big part numbers that are cut 3 or 4 times a week. These nests usually have more than 100 meters or 300 different plies. To obtain a better optimization, we let the nest running overnight or the weekend and save the results for later use. Every time we have to cut this part, we just generate a new NC file and send it to the machine. With static nesting and revision control, if the revision is old JETCAM will warn us when we try to open the file so we will not use it. Using static and not dynamic nests with these cases enables us to save a lot of material. "

On the routers Embraer are also making use of mosaic nesting, which has shaved an hour a day from programming times. Commented Fernando; "Mosaic is a nest of nests. It is used when we have many orders from different materials with few parts on each order. The advantage is that with only one machine setup we can produce many different small orders."

Ongoing support and development is always a concern for a company embarking on a large software implementation. Embraer drew up a detailed specification for the system. Said Fernando; "Most of our wish-list was delivered with the system, after which we provided a further list of 20 items. The most important of these were delivered within a few months of installation, and we are constantly receiving new releases related to the additional features requested."

Fernando finished by saying; "We don't yet have full performance data on the routers, but the savings achieved within the composite manufacturing cells alone paid for the entire JETCAM investment in under a year. Coupled with FFHPN and RCP, JETCAM is alone in its field for material optimization and a high level of automation. It is a complete set of tools for a complex task."

Benefits Achieved:

- JETCAM was the most efficient from the 5 systems benchmarked for both composite cutting and sheet metal fabrication
- Single CAM system supporting routing and composite cutting
- Save 6 hours per day programming time on composite parts due to RCP automation
- 4% reduction in material on composite cutting
- Can now create both dynamic and static nests
- Can now perform Mosaic nesting, which was done outside of previous CAM system and saves an hour a day
- Received several software updates under maintenance, each with major benefits

Machines in use:

- [Trumpf BFZ 3000 Router](#)
- [Creneau CNC Router](#)
- [Lectra Vector 2500 conveyor knife cutter](#)



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Enigma Tapes Out HybriCore Backplane Interconnect Devices in Record Time Using Magma's RTL-to-GDSII Design Flow

8 January 2007

Magma® Design Automation Inc. announced that Enigma Semiconductor, an emerging semiconductor company targeting high-performance applications in the enterprise, carrier and storage market segments, has successfully taped out multiple components from its HybriCore™ family of backplane interconnect devices using Magma's Blast Create™, Blast Plan™ Pro, Blast Fusion®, Blast Noise® and Blast Rail™ implementation products, and Quartz™ Time and Quartz RC Sign-off in the Loop™ products. The HybriCore family includes the industry's densest crossbar switch and fabric manager devices; both devices currently are in beta testing at customer sites. With Magma's integrated flow, Enigma was able to implement the EN6110 switch, which delivers 1/3-terabit-per-second full-duplex, non-blocking switching capacity, in just six weeks using the equivalent of four man-months of engineering resources.

“Both the EN6110 Switch device and EN6240 Fabric Manager feature a number of complex IP blocks with demanding timing and power constraints,” said Robert Sturgill, CEO and president of Enigma. “With the advanced capabilities of the Magma software and a truly dedicated support staff, we were able to ensure that our HybriCore devices would operate inside our customers' stringent system performance and power requirements and deliver this ultra high-speed networking chipset in record time. Magma, with its built-in, non-iterative Sign-off in the Loop approach, played a critical role in the devices' on-time market introduction.”

“With each of these devices including 12M transistors, Enigma’s ability to complete this high-speed, complex design in such a short time and with a small engineering team illustrates the significant productivity advantages of an integrated approach to IC design and sign-off,” said Kam Kittrell, general manager of Magma’s Design Implementation Business Unit. “We’re very pleased to have contributed to their success with our industry-leading design implementation flow.”

Integrated Flow Addresses Complex Hierarchical Design

[Enigma](#) leveraged several Magma capabilities to efficiently integrate several challenging IP modules consisting of logic and high-speed memory, the EN6110 Switch device incorporates 36 12.5-gigabit-per-second links. The EN6240 Fabric Manager integrates four SPI 4.2 interfaces, a PCI management port and 14 12.5 gigabit-per-second-capable serial links and in excess of 10 Mbits of high-speed on-chip memory. Blast Plan Pro’s automated hierarchical design capabilities eliminated the manual work required with any other flow.

The [Magma](#) system’s open architecture allowed top-level assembly to be handled through simple Tcl scripts, enabling the back-end designers to quickly incorporate changes to the blocks. With Blast Create, the front-end designers were able to accurately predict the final timing of the link block prior to handing it off to the back-end designers. This allowed the back-end designers to focus on top-level timing only and eliminated front-to-back-end iterations. Blast Create also provided automated design-for-test (DFT) capabilities that further streamlined the flow.

Blast Noise, working concurrently with Blast Fusion throughout the implementation flow, automatically analyzed and adjusted the chip design to avoid crosstalk noise, crosstalk delay and signal electromigration problems. By automatically addressing these problems during physical design, Blast Noise eliminated the need for cumbersome post-layout analysis and repair, and also ensured working silicon. By enabling accurate analysis and management of power integrity throughout the implementation flow, Blast Rail NX ensured rapid convergence.

Magma’s built-in sign-off engines, including Quartz Time and Quartz RC, were used for extraction, timing and noise sign-off, and also helped ensure working silicon. These integrated capabilities provided a correct-by-construction design flow, eliminating the need for time-consuming back-annotation and ECO scripts that are required with external sign-off tools.

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James Engineering Uses COSMOS Analysis Software to Develop Patent-Winning Designs for Truck Brakes and Race Karts

8 January 2007

COSMOS® analysis software has helped Colorado-based James Engineering create patent-winning designs for a high performance race kart chassis and a lockup-resistant truck braking system, [SolidWorks](#) announced.

James Engineering founder and Principal Engineer Jim Richards designs automotive systems and specialized racing karts in addition to his company's primary business of producing deburring machines that smooth edges on metal parts. Richards and his staff used COSMOSWorks® design analysis and COSMOSMotion™ motion analysis software to anticipate structural problems and mechanical collisions in the kart and brake system designs before the company committed to building expensive prototypes. Without prototyping costs hanging over his head, Richards was able to innovate freely to design the best possible product before locking himself into a design.

“I've really been educated to the value of this tool. I'm a pretty good intuitive designer, but COSMOS improves my chances of getting it right the first time,” said Richards. “In the past we've built components and spent as much as two weeks assembling them only to find out they didn't work the way we expected. With COSMOSWorks and COSMOSMotion, we can see on the computer how an assembly is going to flex under stress, or whether parts will collide, and modify the design before we spend money to build a prototype.”

Richards' racing kart design is a radical departure from mainstream design of these specialized vehicles, which have motors, transmissions, and solid rear axles, but no suspension systems to shift the vehicle's weight during turns to keep it under control. Richards' chassis, scheduled for sale in early 2007, uses a new bearing and joint design to keep the kart stable on curves. COSMOSMotion analysis helped him develop a front geometry that kept the front end planted firmly on the ground.

“We got into kart design late in the game. The field is 30 years old and our competitors have a lot of accrued knowledge,” Richards said. “SolidWorks and COSMOS gave us the ability to step up and leap over their practical experience by modeling many different kinds of chassis to see how they would perform under varying conditions.”

Beyond karts to brakes

Richards develops automotive and aerospace systems in addition to kart design. He is currently refining a design for a truck braking system different from anything on the market today. Richards' braking system uses oil pressure in the wheel housing to slow the wheel, instead of the traditional rotor-and-caliper assembly. Using oil to exert pressure on the rotor decreases the chance of the breaks locking up. His staff modeled the design in SolidWorks® 3D CAD software and is using COSMOSWorks and COSMOSMotion to determine how the brakes will perform as physical objects. The company also uses COSMOS in its primary business of providing arrays of custom deburring machines to automotive and aerospace companies. COSMOS and SolidWorks help the engineering staff modify and customize equipment arrays for its customers.

“Supporting the kind of innovation James Engineering does is one of COSMOS' greatest strengths,” said Ram Ramalingham, SolidWorks manager of product management, analysis products. “SolidWorks and COSMOS gives engineering the freedom to innovate aggressively without fear of committing to a design that might not work when it's actually built. That freedom leads to better and more profitable products.”

[James Engineering](#) works with SolidWorks reseller [MCAD Technologies](#) for implementation and technical support.

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Phoenix Gold Amps Up With Autodesk Inventor

9 January 2007

Autodesk, Inc. announced that Phoenix Gold (<http://www.phoenixgold.com>), a designer and manufacturer of high-end audio components, is successfully using Autodesk Inventor software to streamline its design processes and reduce the amount of time required to create new products. This speed and efficiency provides Phoenix Gold with a significant advantage in the marketplace, allowing them to deliver award-winning audiophile products at a competitive price.

"Phoenix Gold has developed a reputation for providing excellence in sound, build, design and price," said Phil Eichmiller, a mechanical and industrial designer with Phoenix Gold. "That reputation is not accidental -- it's the result of very smart engineering on our end. Inventor provides us with the functionality we need to maintain that reputation and deliver on our brand promise."

Autodesk Inventor delivers a comprehensive and integrated set of design tools that enables companies to create better products, manage their design process and share data with the extended design team. Inventor provides the best of both worlds with 2D and 3D design tools in one package, delivering enhanced 3D productivity while preserving 2D engineering designs through native DWG compatibility.

"Inventor is the single solution for all of my design needs," said Eichmiller. "Drafting, rendering, modeling and animating are available in one place and based on one set of data. Switching between 2D and 3D is effortless -- it's a virtual toolbox of solutions for turning designs into finished products."

Phoenix Gold took full advantage of the Inventor power and flexibility when designing its latest amplifiers and speakers, which contain anywhere from dozens to hundreds of individual components. Creating a working model in 3D with Inventor allows Phoenix Gold to help ensure that all the different parts work together without interference before they create a physical prototype.

The benefits of Autodesk Inventor have extended to all parts of the Phoenix Gold organization, helping members of the engineering, manufacturing and marketing teams innovate and collaborate on products with ease, whether it's in 2D or 3D.

Phoenix Gold is also seeing benefits from the flexibility of Inventor software when it comes to sharing information with its offshore manufacturing partners. The company designs and engineers its products from its Portland, Oregon-based headquarters. With Inventor 3D models, Phoenix Gold can effectively communicate with its geographically diverse manufacturing partners details as to what each finished product is supposed to look like, thus reducing the overall product development cycle time.

"With Inventor, the Phoenix Gold product is the focus, rather than the process," said Robert "Buzz" Kross, vice president of [Autodesk](#) Manufacturing Solutions. "That allows companies such as Phoenix Gold to devote more of their time and energy to designing their industry-leading products and keeping their customers happy."

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Renesas Adopts Synopsys' VCS Solution and VMM Methodology

8 January 2007

Synopsys, Inc. announced that Renesas Technology Corp., one of the world's leading semiconductor system solutions providers for mobile, automotive and PC/AV (Audio Visual) markets, has adopted the VCS® functional verification solution for the development of complex systems-on-chip (SoC). In addition, Renesas has adopted the VMM methodology, as defined in the Verification Methodology Manual (VMM) for SystemVerilog, for the creation of advanced SoC verification environments. Renesas used the VCS solution with the VMM methodology to verify its critical SuperHyway bus on-chip interconnect infrastructure.

"We have adopted VCS, SystemVerilog and the VMM methodology for our next generation of advanced SoC verification environments," said Kazunobu Morimoto, group manager, System Level Design and Verification Technology Department at Renesas. "SystemVerilog and the VMM methodology have proven easy to adopt and deploy with the VCS solution, and will enable significant improvements in verification productivity in our Soc designs using the SuperHyway bus."

Improving Productivity with VCS and VMM Methodology

The SuperHyway bus is a VSIA/VCI compliant on-chip interconnect infrastructure designed to give developers a scalable high-bandwidth, low-latency interconnect. Renesas needed to improve the productivity and predictability of the SuperHyway bus verification environment to keep up with growing demand for new system components. Their new environment needed to reuse legacy tests, enable detailed verification-progress tracking using coverage, and allow for easy addition, modification and maintenance.

Over a period of nine months, Renesas engineers learned the SystemVerilog language and the VMM methodology and built a comprehensive verification environment for the SuperHyway bus running in the VCS solution. Key components of the environment included assertion-based protocol checkers, transaction checkers and scoreboards, transaction-level initiator and target models, coverage descriptions and a legacy test interface. All components were built using SystemVerilog and followed the VMM methodology. Renesas realized many benefits, including higher verification productivity with the transaction-level modeling and constrained-random, coverage-driven capabilities of the VMM methodology, as well as the ability to easily reuse legacy tests. In addition, the verification code base for the new environment was one-third smaller than the legacy environment and was easier to maintain and extend for new projects due to the VMM methodology's clean, layered architecture.

"Renesas has proven that SystemVerilog and the VMM methodology can greatly improve verification productivity, while being easy to adopt and deploy," said George Zafiropoulos, vice president of Marketing, Verification Group at [Synopsys, Inc.](#) "The VCS solution's superior support for SystemVerilog and the VMM methodology make it the preferred choice for companies looking to move to higher levels of verification productivity and predictability."

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Samsung India Software Operations Selects Mentor Graphics Verification Products

9 January 2007

Mentor Graphics Corporation announced that Samsung Electronics India Software Operations (SISO) has selected Mentor's 0-In® suite of verification tools for hardware development. SISO Pvt. Ltd., based in Bangalore, is a wholly owned subsidiary of Samsung Electronics Company Limited, South Korea, employing over 900 employees in research and development. SISO uses Mentor Graphics 0-In verification suite, which includes the Clock Domain Crossing (CDC) verification environment, the CheckerWare® assertion and interface protocol monitor libraries, along with the ModelSim® and 0-In Formal Verification products, to verify a broad range of hardware products for the telecom, wireless and multimedia/digital media markets.

"We want to use the best-in-class tools in our design methodology. Mentor Graphics 0-In fits the bill in this regard. Moreover, Mentor Graphics tools provide seamless interoperability with other tools in the EDA ecosystem. Together, it makes sound business logic to have a tool partnership with Mentor Graphics," states Jailendra Kumar, General Manager and Head, System LSI Division, SISO. "The proactive support from Mentor Graphics for engineering and applications are equally important to SISO."

"We are proud of our relationships with leading companies like Samsung Electronics. They value Mentor's best-in-class technologies and superior verification methodologies, which improve the efficiency of their design processes," stated Steven D. White, General Manager of Mentor Graphics 0-In functional verification business unit. "Our unique CDC verification solution delivers a comprehensive approach for identifying synchronization problems, data-dependent transfer protocol violations, and data reconvergence errors. Incorporating Mentor's 0-In CDC technology into their development process helps Samsung deliver leading edge products with the highest degree of confidence."

Mentor's Clock Domain Crossing as the De Facto Standard

Clock domain crossing errors represent a serious and growing challenge to electronic design. CDC problems are the second highest reported reason for silicon re-spins, but CDC integrity is a phenomenon that traditional verification techniques do little to address. Many industry leaders (including Samsung) have dramatically reduced the risk of having CDC errors undetected until silicon by adopting Mentor's 0-In CDC solution, which is now a worldwide standard methodology within design flows. 0-In CDC gives Samsung the benefits of both static analysis and dynamic transfer protocol checking. In addition, 0-In CDC verifies the design's tolerance for metastability in silicon with its unique CDC-FX tool that injects

the effects of metastability into simulation using existing testbenches. 0 In CDC, along with CheckerWare assertions and interface protocol monitors, has helped SISO reach verification closure more quickly and with more confidence. In addition, Mentor's on-site technical support provides smooth and fast technology adoption, which is vital to the SISO R&D organization with its broad application areas.

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Sequence Delivers DVD-Aware Timing, Advanced Power Flow for Sandbridge Technologies Next-Gen Wireless Designs

11 January 2007

Sequence Design announced that wireless IC pioneer [Sandbridge Technologies](#) has adopted Sequence's PowerTheater and CoolTime for "timing-aware" dynamic voltage drop optimization on its next-generation products.

Sandbridge has created a series of increasingly sophisticated baseband chips for wireless applications. These multi-million gate devices present unique challenges, requiring more silicon- and power-aware design technologies to achieve a successful end product.

The Sandbridge team deployed the Sequence flow on one of their power-gated designs to analyze, optimize, and verify dynamic voltage drop on their power and ground rails. PowerTheater enabled the team to minimize the number of simulation vectors required for identifying the most critical simulation cycles for dynamic voltage drop and to set up CoolTime for detailed power and ground simulation, using both power switch and package parasitics for the highest accuracy analyses. Additionally, CoolTime optimized the dynamic voltage drop by automating the insertion of decoupling capacitors in critical areas.

CoolTime's ability to limit voltage drop without impacting timing or signal integrity is particularly noteworthy, thanks to a built-in timing engine that enables concurrent analysis and optimization of electrical effects. CoolTime also computes the impact of dynamic voltage drop on timing and signal integrity while accurately accounting for the interdependence of events, currents, and voltages within a single tool. CoolTime's library characterization feature using SPICE enables the accurate calculation of voltage drop effects on cell delays and transition times.

"Good planning, along with sound methodologies and tools lay the groundwork for success at 90nm and below," said Gary Nacer, Sandbridge vice president of engineering. "[Sequence](#) has focused technology for the development of low-power designs."

"The power-aware design challenge for market and technology leaders such as Sandbridge is to produce quality silicon while consistently hitting critical time-to-market windows," said Sequence president and CEO Vic Kulkarni. "We are very pleased to know both PowerTheater and CoolTime are playing important roles in the design of these next-generation products."

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Tianjin New Harbor Shipyard Standardizes on PTC® Shipbuilding Solutions

9 January 2007

PTC and Tianjin New Harbor Shipyard jointly announced that Tianjin New Harbor Shipyard has expanded its use of PTC Shipbuilding Solution, which includes CADD5® 5i to improve its overall design capabilities. With the expanded software implementation, Tianjin New Harbor Shipyard is standardizing on PTC Shipbuilding Solution as its manufacturing design platform. Tianjin New Harbor Shipyard believes that this decision will further accelerate its transformation into a modern international shipbuilding enterprise.

The CADD5 5i solution enables users to refer to each other's evolving designs and facilitate concurrent engineering in a fully digitized ship design and 3D modeling environment. This sophisticated enterprise application for shipbuilding will shorten product design lead-time and accelerate time-to-market. With its new deployment of CADD5 5i, Tianjin New Harbor Shipyard is expected to bring additional revolutionary changes in digitization at its shipyard. CADD5 5i is now being used by over 40 engineers at Tianjin New Harbor Shipyard.

As in any industrial sector, innovation is the key to capitalizing on opportunities and realizing market growth. However, the shipbuilding sector is often marked by lengthy product development cycles, due largely to archaic manual design processes that are still in place. Tianjin New Harbor Shipyard led the industry in adopting CADD5 5i, which offers flexible 3D hybrid modeling and 2D drafting capabilities across a broad application range, easing engineers' workload, and freeing up their time to develop more innovative products. For many years, PTC has worked closely with the shipbuilding industry. As part of this effort, PTC has focused on improving 3D design tools and 2D drafting functions based on the shipbuilding industry criteria. As a result, CADD5 5i is widely used in both military and civil products.

"The standardization of CADD5 5i will significantly enhance our R&D capabilities," said Pan Yanzhong, deputy general manager of Tianjin New Harbor Shipyard. "We are extremely pleased to have PTC as a long-term strategic partner and believe this relationship will help us become a modern enterprise in the shipbuilding industry."

"Tianjin New Harbor Shipyard's use and standardization on [PTC](#) CADD5 5i is the result of a continued commitment to provide advanced products and implementation assistance in the global shipbuilding industry," says Richard Prince, director of aerospace and defense market strategy, PTC. "We are excited about our role in helping Tianjin New Harbor Shipyard become one of the most technologically sophisticated international shipbuilders. We look forward to the continuation of our successful relationship as we begin to provide a complete product development system that supports data and process management."

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Woodworking Company Pioneers Delcam Software in Middle East

9 January 2007

Pioneering use of Delcam's ArtCAM Pro routing and engraving software in the Middle East region has taken UAE company Interior Gallery Decors from modest beginnings, with a single seat of software and one router, to a significant business in joinery and furniture manufacture. The firm has recently added the companion ArtCAM JewelSmith software to start a similar move into the jewellery sector.

Interior Gallery Decors was founded by Mr. C.S. Anand in 1992 at a time when the UAE government had started to open its doors to foreign investors. Despite the opportunities brought by this change, the business only really started to grow after introducing ArtCAM Pro and a CNC router nine years ago. The company now has fourteen CNC routers and three seats of ArtCAM Pro. It has been particularly successful in the region's rapidly growing luxury hotel market where its clients include the Emirates Palace in Abu Dhabi, Madinat Jumeirah and Burj Al Arab in Dubai, and Al Alam in Muscat.

"These major hotel projects involve a huge amount of hard work, strategic planning, and commitment from my team," commented Mr. Anand. "They would be impossible without the strength of our software and the significant support from Delcam's Middle East office. The technical experts there treat our relationship more like a business partnership, rather than being just seller and customer."

"The carving capabilities have improved steadily over the nine years we have been using the software," added Mr. Anand. "These developments have boosted our productivity by ten fold. I have not seen any other software that offers anything near the capabilities that ArtCAM Pro now gives us. We can produce virtually any design that our clients request and show it to them on the computer. Then, with ArtCAM, we can machine the shape into all types of material."

"We've always believed in focusing on our customer's needs and in delivering a quality service. The Delcam software has helped us build a reputation as first-rate carvers for all the interior, joinery and furniture related industries."

"I'm very proud of being one of the first people in the region to have bought ArtCAM Pro software" concluded Mr. Anand. "As well as an amazing product strength and impressive software development, Delcam Middle East has a knowledgeable team that give excellent after sales support. What more I could have asked for?"

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Product News

Autodsys IntelliCAD 6.2 Available for Immediate Release

2 January 2007

CIMdata PLM Industry Summary

Autodsys (<http://www.autodsys.com/>) announced the release of Autodsys IntelliCAD® 6.2, a significant update that contains many exclusive enhancements that build on the base IntelliCAD Technology.

This release builds on the performance gains of previous releases by displaying and inserting drawings with large polyface meshes up to 8 times faster.

New color features include support for true color which includes more than 16 million colors, and color books, which provide a way to organize collections of colors.

IntelliCAD 6.2 also contains a new raster engine that allow users to work with larger image files in their drawings with better control over their display. It also supports the use of wipeout entities to overlay other objects.

Additional enhancements include the ability to export directly to PDF and 3D DWF, view thumbnail images while browsing drawing files, attach WAV files as audio notes, use new extension entity snap options, and modify commands to snap to the midpoint of specified points.

Major additions and improvements were made to the IntelliCAD COM API adding dozens of new methods and properties, making IntelliCAD an even better development platform.

About IntelliCAD

IntelliCAD 6.2 has a Suggested Retail Price of \$149 to \$349 depending on features. Upgrades from previous versions are as little as \$50. IntelliCAD was designed to be a low cost Computer Aided Design alternative by providing DWG file support as well as support for industry standard commands, menu files, script files, shape files, text fonts, hatch patterns, linetypes, LISP programs, SDS/C++ programs, and VBA programs.

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Cimmetry Releases SP3 for AutoVue 19.1

8 January 2007

Cimmetry Systems, an Agile Software company, announced the immediate availability of 2D, 3D and EDA native document visualization for AutoCAD 2007 SP1, Cadence Allegro 15.7, and Mentor Expedition 2005.

The release of Service Pack 3 for AutoVue 19.1 (Windows) reaffirms Cimmetry's market leading position and its continuing support for the latest versions of major CAD systems.

Native document viewing allows users within and beyond an organization to instantly and reliably view, markup and collaborate on documents without undergoing costly and error prone file conversions.

SP 3 for AutoVue 19.1 (Windows) is immediately available to AutoVue customers currently under maintenance.

AutoVue 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 a complete list of formats supported by AutoVue, visit: <http://www.cimmetry.com/formats.html>.

Download a fully functional demo copy or try our online demo at www.cimmetry.com.



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CoCreate Introduces Free 3D: OneSpace Modeling Personal Edition

8 January 2007

CoCreate Software, Inc. introduced the world's first free Dynamic Modeling based 3D CAD software, CoCreate OneSpace Modeling Personal Edition (PE).

OneSpace Modeling PE is a freely available download offering all the power of CoCreate's enterprise OneSpace Modeling 3D CAD system for assemblies up to 60 parts.

This version enables any engineer, designer or student to experience the power of a Dynamic Modeling based approach to 3D product development, the cornerstone of the CoCreate OneSpace Suite. And even the most casual user or hobbyist will be immediately productive through a full set of self-paced tutorials, quickstart projects, online help and user forums.

This is a time limited opportunity until March 31st to secure your free copy of OneSpace Modeling PE – so act now! To register and download your personal copy visit:

<http://www.cocreate.com/free>.

Key benefits available in this release include:

- Easily import and completely edit standard 2D and 3D file formats to experience the unparalleled interoperability of the CoCreate platform, where geometry is always king.
- Transform existing designs from nearly any source to satisfy new market requirements, while shaving weeks to months off development timelines.

CIMdata PLM Industry Summary

- Respond to unexpected or changing requirements more easily, more frequently and much later in the development process through a history-free approach.
- Discover an easier to learn and use 3D CAD system that combines 2D's ease of use with the inherent benefits and power of 3D. Moving from 2D to 3D has never been this easy.
- 100% faster product development through empowered design teams, lean product development methodologies and the CoCreate platform.

There are two approaches to 3D product development. OneSpace Modeling PE brings Dynamic Modeling to engineers and designers worldwide, giving them choice and liberation from the overhead and complexity of history-based modeling.

“Customers tell us that CoCreate gives them extreme speed, flexibility and responsiveness to change in 3D product development. These traits come from a Dynamic Modeling based approach,” said William M. Gascoigne, CoCreate CEO. “OneSpace Modeling PE ends the industry’s status quo, and lets the 3D CAD users see that there is a fork in the road for 3D product development tools.”

For companies and individuals wanting more, the CoCreate platform is easy to grow into. All 2D drawings and 3D models created within OneSpace Modeling PE can be unlocked and carried over to CoCreate’s full production environment. Subscription licensing (rent versus own) and a 15 minute, 6 button click deployment model for CoCreate’s data management are just a few of the examples of how easy it is to adopt the CoCreate platform. More importantly, CoCreate’s Dynamic Modeling based interoperability strengths means there is no switching cost in moving to the CoCreate platform.

Individuals wanting to learn more about harnessing the power of a Dynamic Modeling based approach to 3D product development are encouraged to watch the on-demand webcast, Achieving Lean Product Development — The CoCreate Dynamic Difference:

<http://www.cocreate.com/rd/dd>



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Dassault Systèmes Announces Enhancements to DELMIA V5

9 January 2007

[Dassault Systemes](#) announced that Version 5 Release 17 of its PLM software includes numerous enhancements to the DELMIA V5 Robotics program, including a new capability that defines and simulates complex flexible manufacturing devices such as multi-wrist robotic arms. This allows for more accurate simulation of the manufacturing processes and better defines resource allocation.

Additionally, new native language teach pendant capabilities allow off-line programmers to program robots with V5 3D processing planning tools using both a teach pendant and programming language familiar to the robot technician. Productivity is therefore improved as the user no longer needs to learn a new programming language.

Users of V5R17 [DELMIA](#) robotic simulation solutions also now have the ability to customize their solutions through the use of user-friendly Visual Basic (VB). New interfaces include tag/tag group creation and manipulation, controller data profiles, kinematic relations, tool mount model and task.

With the new V5R17 release, DELMIA's robot motion planning is even more accurate with new high cycle time and path planning validation and analysis. For applications requiring the highest level of accuracy, Realistic Robotic Simulation and Realistic Robotic Simulation II modules are available.

Providing a single programming solution for all major robot vendors, DELMIA's V5 Robotics, allows for the design, simulation, optimization and off-line programming of robotic workcells in a 3D digital factory environment. It can capture the underlying philosophy of and intent of the robot programmer. This enables the company to capture and reuse best practices, leverage programming knowledge, and automate the repetitive work of robot programming.

DELMIA's entire solutions portfolio is founded on a unique Product, Process and Resource data model supported by a common Manufacturing Hub, which allows manufacturers to store, manage and reuse all product, process and resource information throughout the product lifecycle. It shares the same architecture as sister companies CATIA® and ENOVIA®, seamlessly integrating information throughout the enterprise.

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Gerber Launches Taurus X Series Leather Cutter Featuring Pivex™ Technology

5 January 2007

[Gerber Technology](#) announced the launch of its Taurus X Series leather cutter featuring Pivex™ technology. Featuring the ability to change direction at high rates of speed, this innovative cutting technology is designed to increase cutting speed for intricate shapes while improving cut quality.

Powered by Gerber's new Pivex cutting technology, the Taurus cuts more leather faster. The Pivex knife eliminates over cuts and heel cuts on most parts to deliver the best quality available from an automated cutting system. The high-speed reciprocating action of the Pivex knife, in conjunction with the high friction table surface, minimizes hide movement, ensures precisely cut parts and enables users to cut custom notch shapes including many internal and external notches without sacrificing cutting speed or quality. Pivex technology can cut all perimeter geometry in a single pass of the high-speed reciprocating knife. The knife is never lifted from the leather while cutting through or around corners at faster speeds than previously possible.

As noted by Walter Kuhnert, General Manager, Karmann-Ghia de Portugal (KGP), “We tested the Taurus with Pivex technology for more than two months and were impressed by the cut speed improvement over our current system.” He continued, “This cut speed improvement was accompanied by cut part quality equal to that of die cutting and an edge quality better than die cutting. It is this type of precise cutting that we require to meet the demanding technical specifications of our customers.” Karmann-Ghia de Portugal is a fully owned subsidiary of Wilhelm Karmann GmbH, Germany that specializes in the production of seat covers in fabric and leather for the automotive and aviation industries. Audi, BMW, Daimler Chrysler, Ford, Seat and Volkswagen use KGP products received through their supply chain.

“The Taurus is the industry’s most advanced automated leather cutting and nesting system,” said Shawn Cole, product manager, single-ply cutting systems. “Our tests have proven that the new Taurus with Pivex technology cuts more leather faster and with better precision than ever before. It is especially suited for automotive leather interior applications that typically require high speed cutting of intricate parts.” Cole added, “Pivex has been designed to allow for backwards compatibility with existing Taurus XM/XD systems. In addition, a Pivex migration path is also available to Taurus TLCS users who want to take advantage of this innovative new cutting technology.”

Taurus with Pivex Highlighted Features

- High speed cutting of intricate parts
- Single lift and plunge per part perimeter reduces tool up and down cycle time
- Angled knife blade for minimal over cuts
- Single-tool perimeter cutting eliminates tool-to-tool positioning issues
- Fixed knife foot ensures material stability
- High-friction surface “grabs” the leather under vacuum to ensure accurately cut parts
- Reciprocating knife reduces forces on material during cutting
- Return on investment in less than two years

Pivex technology is also available as an upgrade for installed Taurus systems.

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ICAM Releases Control Emulator for MCD-Based Machine Tool Simulation

10 January 2007

ICAM Technologies Corporation (ICAM) announced the release of Control Emulator™ (CE), a new software product allowing NC programmers to simulate and test NC programs using Machine Code Data (MCD) within the CATIA V5 / DELMIA environment.

As compared to traditional APT-based verification systems, which simulate the programmer's planned tool path, CE provides a more meaningful simulation that represents how the machine tool will react to the MCD output generated by the post-processor.

Furthermore, deploying CATIA V5 / DELMIA / CE as an integrated package enables the user to run simulations on a per operation basis during the NC programming session, resulting in a significant reduction in NC programming time.

CE accommodates an "in-process" or "on-demand" CATIA V5 / DELMIA simulation environment vs. the existing multiple process loop currently offered by independent competitive solutions. Benefits include improvements to NC programmer productivity and manufacturing process efficiency, resulting in faster time to market.

CE reads MCD to emulate the actions of CNC machines and controllers and provides users with the following advanced functions:

- Validates the accuracy of the MCD.
- Verifies the actual tool path as described by the MCD.
- Tests the MCD for machine / tool / part collisions.
- Allows users to compare the design part against an MCD-based material removal part simulation

CE provides a powerful validation method allowing users to determine the association between MCD and specific operations within the NC program and allows for specific modifications to the tool path (CATProcess) depending on simulation results.

CE is fully integrated with CAM-POST®, ICAM's NC post-processor development software; therefore, users may easily employ advanced features inherent to CAM-POST such as Macro Tracing, Call Stack Status, Input and Output Stepping and NC Variable Watching and Modification to optimize the machining process.

Other advanced features supported by CE include linear / circular / helical interpolation, drilling cycles, tool change and tool pre-select, length / diameter / fixture compensation, spindle / coolant and feed, subprograms, tool plane, program units, absolute vs. relative positioning and program dwell.

“MCD-based machine tool simulation provides NC programmers with the most accurate representation of the machining process,” said Brian Francis, ICAM’s Director of Research and Development. “CE integrated with CATIA V5 / DELMIA provides a powerful simulation tool that allows NC programmers to avoid and correct possible programming errors that may have resulted in costly machine tool collisions and defective parts.”

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IMS Software Announces IMSce for CATIA V5

11 January 2007

[IMS Software](#) has announced the immediate availability of IMSce for V5, providing CNC controller emulation functionality within the CATIA V5 manufacturing environment. Controller emulation provides processing of machine-specific G and M-code, allowing the integrated verification and simulation within V5 to check the actual data which will drive the machine, not just the toolpath as generated by the CAM system.

Most CAM software provides NC verification with material removal, and in some cases machine simulation, but normally only checks the toolpath generated by the software. What happens between the CAM system and the machine - postprocessing to convert the toolpath to the correct format, optimization for speeds, feeds, retraction and reorientation at machine limits, or simply hand-editing by the operator - can introduce conditions that can be costly if not identified before the part is on the machine.

CATIA V5 from Dassault Systemes provides an integrated approach allowing G-code validation without leaving the V5 environment; controller emulation capability with IMSce for V5 provides the machine motion, while checking for syntax and logic errors and alerting the user when they occur.

IMSce for V5 provides controller emulation for all types of CNC controllers on the market today, including Fanuc, Siemens, Heidenhain (ISO and conversational formats), Fadal, Num, Mazak and many others. Full support for controller variables, subprograms, expressions, canned cycles, probing and more ensure the most accurate and robust simulation available in the industry.

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Infor Enhances ERP Functionality for Discrete Manufacturers

10 January 2007

Infor announced new enhancements and improved functionality for Infor ERP LN that automates new business processes and provides greater visibility into manufacturing operations. Infor ERP LN, a fully-integrated enterprise resource planning (ERP) solution, provides business-specific functionality in a scalable, multi-language, open systems platform for manufacturers in industries such as industrial equipment, high-tech and electronics and metal fabrication.

With more than 25 customer-requested features included, Infor ERP LN Feature Pack 3 offers enhancements which enable discrete manufacturers to automate essential business processes in areas such as reverse logistics, tax reconciliation and multi-currency handling. New benefits include reporting and auditing for cycle counts and inventory adjustments; optimized invoice sorting and composing options; improved consolidation of multiple purchase requisitions in one order; and new reports on linked purchase and sales orders.

“Increasingly complex supply chains and demand for an accommodating ERP solution drives manufacturers of discrete products to seek out a technology partner who understands and can help solve their unique business challenges,” said Mike Frichol, vice president of global industry and product marketing for Infor. “Infor ERP LN is a great example of how Infor enriches and evolves its solutions to address the ever-changing global marketplace. LN enables our customers to improve competitiveness, leverage their technology investment and reduce their total cost of ownership, today and well into the future.”

Highlights of LN Feature Pack 3 include:

Support for Hazardous Materials Regulations – Restriction of Hazardous Substances (RoHS) is a regulatory requirement for manufacturers to reduce the use of hazardous material in electrical components

Manufacturing Part Numbering (MPN) – in high tech and electronics manufacturing, part numbering is used to differentiate between manufacturers for the same item

Reverse Logistics – enables manufacturers to take material back, send temporary or permanent replacements, put unserviceable equipment on stock and refurbish individually or in batch, as per the demand, while keeping track of the life-cycle history and status

Customers will benefit from Infor ERP LN’s inherent integration capabilities to additional business-specific solutions from Infor, further extending the value discrete manufactures receive from their IT investment. For example, LN customers can now deploy Infor Customer Relationship Management or [Infor Warehouse Management Provia](#) systems and have them tightly integrated with their ERP solution. With this integration, customers can define a business process event that will send the change to an ERP application or trigger an integration hub to update connected systems.

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IronCAD Extends License Agreement with Tech Soft 3D’s HOOPS® Technology

9 January 2007

IronCAD and [Tech Soft 3D](#) announced a license agreement to extend Tech Soft 3D’s HOOPS® technology to IronCAD’s modeling environment.

IronCAD and Tech Soft 3D's partnership began in 2004, when IronCAD first licensed HOOPS® for their free IronCAD file viewer. IronCAD will now extend Tech Soft 3D's graphical components to IronCAD's modeling environment, further enhancing its design interaction.

“Because of its impressive graphical performance, HOOPS technology has become a staple in applications for the CAD, CAM and CAE markets. Incorporating HOOPS technology into IronCAD's modeling environment lets users take advantage of real-time model interaction that improves design efficiency and allows for better communication outside the design team,” says Cary O’Connor, Marketing Director for IronCAD.

“We’re looking forward to the release of IronCAD with the HOOPS framework embedded as their core graphics subsystem”, said Ron Fritz, Managing Partner for Tech Soft 3D, “We’re confident that IronCAD users will benefit from the enhanced performance, interactivity and functionality that HOOPS provides.”

[IronCAD](#) plans to incorporate the HOOPS Technology in its next major release in 2007.

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Kubotek Combines Advanced Face Selection with Dimension Editing Techniques to Simplify Product Design

9 January 2007

Kubotek® USA, creators of geometry-based CAD software, unveiled new direct modeling capabilities that are redefining the ability to design, edit and reuse 3D solid models. The company has extended its advanced face selection technology to support dimension editing capabilities that drive real-time changes to geometry, providing CAD professionals with intelligent new tools for design flexibility.

A New Twist on an Old Standby

The CAD industry is very familiar with editing solid models by driving dimensions. However, today Kubotek is debuting its ability to allow users to change solid model geometry by selecting and editing dimensions in real-time without pre-defined constraints. Benefiting from advanced face selection technology that powers Kubotek's direct modeling approach, users are no longer required to define relationships and specify constraints in advance in order to use dimensions when editing models.

Direct Dimension-driven Editing allows a user to quickly create and then select any dimension on a 3D solid model, insert a different value, and watch the geometry automatically update. The introduction of Direct Dimension-driven Editing capabilities from Kubotek means changing solid model geometry just got a lot faster and much more intuitive.

"Kubotek's introduction of Direct Dimension-driven Editing allows users to work with models the way they naturally want to design," said James Gordon, Deputy Vice President of Development at Kubotek

USA. "Traditional CAD tools tie dimension-driven changes to sketches, which can be complex to decipher and use depending on the original design intent. Kubotek technology isn't limited by constraints or a dependency on the sketch. In fact, even our newest direct dimension-driven capabilities can be used with any CAD model, regardless of file format - providing unprecedented technical and market leadership."

Similar to history-based programs, dimension-driven functionality is used to edit 3D solid models, but that's where the similarity ends. The difference is that Kubotek's Direct Dimension-driven Editing requires no fixed relationships be built into the dimensions or any special data or entity types. This flexibility allows users to decide at the time of an edit how the change should take place as well as what features or faces should be included in the change. Underlying face selection technology, called Face Logic™, allows users the freedom to quickly add driving dimensions to any 3D solid at any time, regardless of how the model was originally defined. Face Logic technology never requires constraints on the model, nor is the model constrained by rigid design intent or subsequent model edits. Instead, the technology enables users to make any edits they want to make whenever they want to make them.

Face Logic™ -- the Foundation for Design Freedom

Kubotek's Face Logic technology is comprised of powerful face selection techniques that discover features and patterns in real time. More specifically, the underlying technology assesses a face identified as the cursor passes over while simultaneously analyzing adjacent faces for certain geometry and topology conditions. Based on the conditions identified, the faces may be part of a "feature" or multiple features. Since there can be more than one option, users are able to cycle through the solutions or mask on particular features. Kubotek's Face Logic technology is unique in its ability to allow users to manipulate very high level "super" features -- i.e. a "cavity" in a molded design, the "side" of a sheet metal part or a pattern of complex holes.

"Kubotek's advanced Face Logic technology produces a dynamic design environment that allows users to create without concern for future changes or modifications," said John McCullough, Product Manager at Kubotek USA. "Our introduction today represents only a fraction of the potential this technology offers. Users are already getting addicted to this approach to design."

"The future of CAD is becoming clearer every day," continues Gordon. "Direct modeling advancements are making their way into a broad range of CAD systems -- even those using parametric design methodologies -- because users are demanding more productive design tools. Kubotek continues to pioneer ground-breaking technology that is shaping the direction of CAD."

Availability

Face Logic, Kubotek's advanced face selection technology, powers many of the next-generation tools available in [Kubotek](#) products today. The technology has been extended to support the use of geometry-based dimensional editing. The first implementation of Kubotek's Direct Dimension-driven Editing capabilities will be available in the company's KeyCreator® and REALyze™ products on January 29, 2006.

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Lattice and Aldec Sign Mixed-Language Simulator Agreement

8 January 2007

Lattice Semiconductor and Aldec, Inc. announced that Lattice will offer its customers a special edition of Aldec's Active-HDL Designer Edition tools for FPGA design. The Active-HDL Lattice Designer Edition Lite supports mixed VHDL and Verilog simulation for Lattice's leading FPGA devices, including the 90nm Extreme Performance™ LatticeSC™ family as well as the 90nm LatticeECP2M™ family, which is the industry's only low-cost FPGA family with unequaled on-chip memory capacity and 3.125 Gbps SERDES I/O.

"We are very pleased to offer Aldec's verification solutions directly to our customers," said Tim Schnettler, director of design tools marketing. "Through Active-HDL and its other products, Aldec has been providing productivity enhancing tools to support FPGA and system design for many years. This partnership will enable [Aldec](#) and Lattice to offer our mutual customers 'More of the Best' FPGA design solutions."

"Lattice has become 'The Third Force' in the FPGA industry. Now that Lattice has its own edition of Aldec's mixed-language simulator in its EDA product portfolio, we look forward to strengthening our position with Lattice's new FPGA families," said David Rinehart, vice president of marketing at Aldec. "Combining the power of Aldec's mixed-language simulator with Lattice's ispLEVER® software design tools will allow users of leading edge Lattice FPGA silicon to achieve their system design goals faster. By marketing Active-HDL Lattice Designer Edition Lite, Lattice will assume an even more prominent role within the FPGA design community."

About Active-HDL Lattice Designer Edition Lite

In addition to mixed VHDL and Verilog RTL and Timing Simulation, Active-HDL Lattice Designer Edition Lite also will include Aldec's HDL Text Editor, Language Assistant, State Machine Editor, Block Diagram Editor and other point tools in a single design workspace. Key debug capabilities such as Code Execution Tracing and Advanced Breakpoint Management also are included in the Lattice edition. For a complete list of capabilities, please visit the Lattice website at <http://www.latticesemi.com/>.

Price and Availability

Active-HDL Lattice Designer Edition Lite is available from Lattice now. The list price of \$1249 for an annual node-locked license makes the Active-HDL Lattice Designer Edition Lite the industry's superior mixed-language simulator value.

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Mastercam X2 Introduces CAD File Change Recognition

January 2007

Every shop faces engineering changes. Often, it can be difficult to track which file is the latest, what modifications have been made, and what programming changes are needed. [Mastercam](#) X2 includes two powerful new tools – File Tracking and Change Recognition – that give you an easy way to identify these issues and streamline programming an updated file.

- Create a checklist of files to watch including Mastercam, SolidWorks, Autocad, or other CAD files. Mastercam alerts you when a newer version of any file on the list is available.
- Mastercam’s Change Recognition identifies modifications to any type of CAD geometry with no file type limitations – any combination of wireframe, solids, or surfaces.
- Mastercam marks any toolpaths affected by the updated CAD file. You can quickly select the new geometry and update the toolpaths.
- Once you update an affected toolpath, automatically update any additional toolpaths that use that geometry.

“The real power of these tools becomes clear when receiving engineering changes to a large file with multiple operations,” says CNC Software Vice President Brian Summers. “Something as simple as a few additional drill holes could be frustrating to identify. Now, with a few mouse clicks, you can immediately locate and program these changes, saving valuable time,” he adds.

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Moldflow Communicator 1.1 Expands Injection Molding Analysis Capabilities; Enhancements Benefit Content Creators and Viewers Alike

5 January 2007

Moldflow Corporation announced the release of Moldflow Communicator™1.1, a free software product that allows distributed product design and development teams to visualize, quantify and compare analysis results obtained from Moldflow software products. Since its introduction in March 2006, Moldflow Communicator has been downloaded & registered by over 3,000 users, making it the most widely adopted plastics CAE results viewer.

Moldflow Communicator 1.1 allow users to view more Moldflow analysis model and results information, which can be used to make critical decisions when optimizing part and mold designs before manufacturing. New features and enhancements include:

- Ability to import up to four times as many Moldflow Plastics Insight® (MPI®) results files
- A new results query tool for displaying specific result values on any region of a part and an improved animation tool for viewing result plots dynamically
- A new mesh statistics display for getting insight to the quality of analysis models and the accuracy of the analyses performed
- Ability to view optical birefringence, design of experiments and molding window results

Moldflow Communicator 1.1 also supports files exported from MPI 6.1, which offers faster solution times, interfaces more easily with leading structural CAE products, and provides new analysis capabilities for optical lens applications.

Murali Annareddy, Director of Design Analysis Solutions Product Marketing at Moldflow, says: “The release of Moldflow Communicator 1.1 demonstrates our commitment to developing new product features and enhancements in direct response to customer requests. Without exception, all new functionality in this release has been requested by users of MPI, Moldflow Communicator or both products.”

Pricing and Availability

Moldflow Communicator 1.1 is free and available for download now to both Moldflow customers and non-customers. It runs on 32- and 64-bit hardware running Microsoft® Windows®. For more information, please call Moldflow at +508-358-5848, or go to <http://www.moldflow.com>.

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MSC Software Announces General Availability of SimOffice and Participation in Windows Vista Launch Events

9 January 2007

[MSC Software Corp.](#) announced the general availability of SimOffice, a cost-effective, desktop-based simulation solution that is designed for a wide range of manufacturers from small and mid-sized organizations to larger enterprises. SimOffice is compatible with the soon to be launched Windows Vista, and enables manufacturers to benefit from existing IT investments and simulation environments through the entire suite of Microsoft productivity and collaboration solutions. With SimOffice, engineers can improve productivity through fast, reliable simulation in an easy-to-use next generation Windows Vista desktop environment.

The company also announced that it will be displaying SimOffice in a series of Microsoft Across America launch [events](#) designed to showcase how the companies are simplifying how people work

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together, help protect and manage content, find and utilize information and improve business insight. The series of ten events that MSC.Software will be participating in are as follows:

January 16	New York City
January 24	Boston
January 26	Los Angeles
January 30	San Francisco
February 7	Chicago
February 13	Houston, Detroit
February 15	Philadelphia
February 21	Dallas
February 26	Seattle

SimOffice is available through resellers who are a part of MSC Impact, a global channel program that allows MSC resellers to bring simulation to a wider array of organizations who either may not yet be taking advantage of simulation or for whom it is a smaller part of their business. MSC Impact brings resellers a competitive edge with channel-specific products, such as SimOffice, training and support. For more information on MSC Impact, please visit:

<http://www.mscsoftware.com/partners/resellers.cfm?Q=434>.

"MSC.Software's SimOffice is very appealing to companies like us," said Ajay Kumar, vice president of engineering for Pro-Dex. "We look for simulation technology that enables rapid adoption by our engineers and is tightly aligned with our design process. SimOffice looks very impressive and will provide a range of options with intuitive integration technologies that drastically improve engineering productivity."

"SimOffice enables people within manufacturing enterprises to accelerate innovation by bringing products to market faster, using computer-based simulation to share processes across systems and suppliers, verify designs and reduce physical prototyping," said Bill Weyand, chief executive officer, MSC.Software. "We are pleased to showcase SimOffice at Microsoft's U.S. launch events and demonstrate how the product embraces Microsoft's 'People-Ready Business' vision with familiar software that is easy to use and integrate and amplifies the impact of a company's greatest asset -- its people."

About SimOffice

SimOffice is specifically designed for engineers who design, analyze and test complex mechanical parts used in end product designs. By enabling engineers to create and test models in an intuitive Windows-based platform, manufacturers can get better, more accurate design data earlier in the product development process. With the rich collaboration capabilities of Windows Vista, engineers can also generate reports and exchange critical product performance information to make better and more informed design decisions. Moreover, SimOffice is powered by MD Nastran, which provides engineers in complex supply chains with the ability to leverage existing data and processes across OEM and supplier organizations.

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New Innovations, Features for Google SketchUp and Google Earth

9 January 2007

Today Google released Google SketchUp 6 at the 2007 Macworld Conference & Expo in San Francisco, CA. Google SketchUp is a powerful, easy-to-use 3D software modeling tool that enables design professionals and armchair enthusiasts alike to model the world for professional use and sharing in Google Earth. Google SketchUp 6 enables simpler, more realistic modeling with the addition of new features and innovations. These include:

Photo Match – Users can now quickly and easily trace a photo to create a 3D model of the photographed object or match an existing model with a background photo for near-instant modeling.

Styles – New collections of display settings including Watermarks (2D images behind or in front of models) and Sketchy Effects (rendered as though drawn by hand) enable users to create 3D models to fit their professional or personal needs.

3D Text – Users can now convert text to 2D outlines, filled surfaces, or extruded 3D objects.

LayOut Beta (Pro version only) – An innovative presentation/publishing application enables users to create professional design presentations and high-resolution documents with little additional work. By embedding SketchUp models in a LayOut document, professionals can create compelling presentations that enable models to remain interactive and modifiable.

Additional product improvements include an enhanced API which enables third parties to create custom applications to supplement the functionality of Google SketchUp, two-point perspective viewing, and improved screen and print quality.

Google SketchUp 6 is available at <http://sketchup.google.com> for both the Mac and PC. This release further integrates Google SketchUp with Google Earth and the 3D Warehouse, streamlining the sharing of 3D models with users around the globe. Google Earth now features a default "Best of 3D Warehouse" layer that showcases the most realistic, detailed models from Google SketchUp users. Additionally users

can now create and contribute to user-designed 3D Collections in the 3D Warehouse such as "Stadiums of the World."

These developments further Google's efforts to create a fully-detailed 3D Google Earth with user-generated modeling. Google Earth combines satellite imagery, maps and the power of Google Search to make the world's geographic information easily accessible and useful. There have been over 200 million unique downloads of Google Earth since the product's launch in June, 2005.

For more information please see today's Google Blog post at:
<http://googleblog.blogspot.com/2007/01/super-models-wanted.html>.

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Newest Version of Maplesoft's Flagship Product Dramatically Improves User Experience

8 January 2007

Maplesoft™ announced a major release of Maple™, the company's flagship product. Maple 11 features enhancements to its smart document interface, strong computation engine, and connectivity capabilities. The result is a product that provides users the necessary technology to reduce error and dramatically increase analytical productivity.

With Maple 11, the company is advancing the revolutionary technical document interface technology it introduced two years ago. The new release combines the world's most powerful mathematical computation engine with an intuitive user-interface that eliminates the learning curve so common with other mathematical software. Its smart document environment automatically captures all technical knowledge in an electronic form that seamlessly integrates calculations, explanatory text and math, graphics, images and sound, and more. These concise live documents can be reused or shared across the organization.

"We initiated a radical change in the industry when we launched Maple 10 with its superior technical document and knowledge sharing capabilities", said Maplesoft CEO Jim Cooper. "It changed the way people worked and Maple 11 represents another important leap forward in this direction. It is the leading tool for engineers and scientists to streamline and increase the quality of their analytical work. It also represents Maplesoft's commitment to transforming the way our customers use technology."

Maple 11 is supported by an extensive range of products for various industrial applications including automotive, aerospace, electronics, energy and finance. Companion products include automatic model generation, optimal design tools, intelligent control design, reference e-books, and more.

Key New Features and Benefits of Maple 11

Maple 11 has a vastly improved computation engine that includes new mathematics, user-level multithreaded computations and the world's best certified polynomial real root finder. The smart

document environment minimizes the learning curve, providing instant productivity. Whether it is to do quick calculations, develop design sheets, or produce sophisticated high fidelity simulation models, Maple 11 raises the bar for industry-leading mathematical power and provides a whole new level of analytical productivity.

Smart Documents

- Self-documenting context menus perform calculations and give a description of the steps.
- Enhanced plotting capabilities: ability to use natural math notation in titles, legends, labels and tick marks; support for international characters; extensive plot annotation capabilities such as sketching, adding text and math, and drawing lines, shapes and arrows using new drawing canvas tools.
- New point-and-click task assistants: Backsolver, Special Functions and Scientific Constants assistants.
- Ability to turn documents into an instant slide-show.
- Annotation capabilities to provide supplementary information such as references to text and math.
- The handwriting recognition feature lets you try out a preview version of developing technology for understanding handwritten mathematics.
- Inter-document equation references that allow users to work on calculations with equations from other documents.

Strong Mathematical Computation Engine

- New specialty packages for Graph Theory, Physics and Differential Geometry.
- Improvements to Differential Equation and Differential Algebraic Equation solvers, including new methods and enhanced support for large systems.
- The world's best certified polynomial real root finder, incorporating the RS library, guaranteed to find real roots of polynomial systems. This solver is the fastest in the world for finding all real roots, due to the incorporation of the renowned FGb library, the world's most efficient Groebner bases engine.
- Numerous improvements and additions, including multi-core processor support, numeric integration and summation, vector calculus, and more.

Connectivity

- Excel import and export capabilities integrated with interactive tools as well as available programmatically.
- Improved MATLAB connectivity.
- Image Tools package offers improved performance and newly-added manipulation and viewing commands.

Pricing and Availability:

Maple 11 will begin shipping in March 2007. For professional licenses, Maple 11 is available for \$1895 USD. In addition to Maple 11, customers will also receive the Maple Toolbox for MATLAB, MapleNet, and a one year subscription to the Maplesoft Elite Maintenance Program which offers product updates and other benefits. Customers purchasing/upgrading between January and March, will immediately receive the same package based on Maple 10, which will be automatically upgraded to Maple 11 in March. Academic, upgrade, and volume discounts are available. For more information, please contact Maplesoft Sales at 1-800-267-6583, email info@maplesoft.com or visit <http://www.maplesoft.com>. Outside of the United States and Canada, contact a Maplesoft reseller partner.

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Punch! Software to Support Google SketchUp Formats in ViaCAD; Affordable 2D/3D software opens up world of Google Earth and 3D Warehouse Models

9 January 2007

Punch! Software LLC, developers of home and landscape design software, announced that its upcoming ViaCAD™ release will support the Google® SketchUp® 6 import file formats.

ViaCAD™ is a high functionality, low-cost 2D/3D design product that revolutionizes the way everybody creates designs in 2D and 3D. To be released in March of 2007, the new product supports Mac OS X and Windows platforms, and retails for \$99.

"The addition of the new SketchUp format is very powerful for our users," said Paul Bay, CEO, Punch! Software LLC. "With this capability, we enable ViaCAD users to benefit from the availability of predrawn models on Google's 3D Warehouse, while using an affordable, simple and yet powerful design product."

The 3D Warehouse is an online feature of Google's SketchUp application that lets users search, share, and re-use 3D models. The models in the 3D Warehouse include commonly used 3D elements, everything from buildings, houses, bridges, and statues to couches, cars, people, and pets.

A demonstration of the Google 3D Warehouse is available at:

http://download.sketchup.com/downloads/training/tutorials50/The_Story/The_Story.html.

ViaCAD delivers a new way of designing, using 2D and 3D elements in a concurrent adaptive user interface that enables surprisingly rapid, easy and precise designs to be created. It also creates 2D details, plans and elevations automatically from 3D models - a tool that can also be used with models imported from SketchUp.

ViaCAD supports 2D, 3D, surface, and solid modeling tools with a wide array of features to allow precision illustrations while keeping the process incredibly simple. Accuracy is ensured by ViaCAD's ACIS®-based kernel. The new release can export section views and detail views, Bill of Materials lists, and includes complete 3D editing tools, annotation, and dimensions, among other practical features for the home designer.

Export functionality of SketchUp formats is planned soon, and will be available as a download to existing users when complete.

Availability

ViaCAD will be released in March 2007, and will be available at major retail stores as well as direct from Punch! Software's web site at: <http://www.punchviacad.com/>.

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Radial Turbomachinery Flow Path Design and Multidisciplinary Optimization With New Release of AxSTREAM™ v.2.0

5 December 2006

[SoftInWay Inc.](#), a leading provider of the turbomachinery design software, announced the release of AxSTREAM™ v.2.0 –Turbomachinery Flow Path Conceptual Design Suite - professional tool for rapid turbomachinery design and multidisciplinary optimization. AxSTREAM™ v.2.0 extends the scope of available turbomachinery types with the addition of Turbomachinery Flow Path Design for Radial Turbines & Centrifugal Compressors.

For some time our customers have been waiting for the possibility to design and optimize radial turbomachinery. In AxSTREAM v.2.0 this capability has become available. This allows users to work with radial machines: radial turbines and centrifugal compressors as well as with axial ones.

New features include:

- Mixed/Radial/Axial flow path design “from scratch” and multidisciplinary optimization using a handful of basic parameters and a set of geometric constraints

- Mixed/Radial/Axial flow path Meanline analysis and optimization with support of “as-designed” and off-design operational conditions
- Throughflow analysis
- Camberline/Thickness interactive profiling and airfoil design
- Push-Button FEA
- Integrated optimizer based on design-of-experiment (DoE) methodology
- Performance maps generation
- Capability to export 3D airfoil geometry in formats acceptable for Numeca, ANSYS CFX, etc. and in IGES format for NX, SolidWorks, Pro-E, ANSYS and etc

AxSTREAM™ v.2.0 brings to the industry new advantages and possibilities to streamline the process of turbomachinery design and analysis, substantially decrease time required for project development and facilitate end-user operation thereby making design and optimization processes more robust, sophisticated, and convenient.

Movie-presentations of the new modules are available to download immediately:

- Centrifugal Compressor Overview [Download](#)
- Radial Turbine Overview [Download](#)

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Right Hemisphere and Tata Consultancy Services Team Up to Deliver End-to-End Technical Documentation Solutions

9 January 2007

[Right Hemisphere](#)® announced a strategic partnership with [Tata Consultancy Services Ltd.](#) (TCS), a leading global IT services and consulting organization, to deliver and support state-of-the-art technical documentation solutions worldwide. TCS will now provide services in technical publications encompassing document production, software implementation and software customization using Right Hemisphere's products.

The collaboration provides customers with a one-stop solution for outsourcing work in Product Lifecycle Management (PLM) publishing. The Right Hemisphere software suite allows companies to create technical publications concurrent with the engineering process. The software automatically transforms engineering computer-aided design (CAD) models into high impact 2D and 3D graphics and publishes

them in widely used formats such as Adobe® PDF and Microsoft® Word® or PowerPoint. These features help manufacturers eliminate costly manual processes.

"Graphically rich, high quality technical publications increase both revenue and customer satisfaction while lowering warranty and support costs. By combining Right Hemisphere's software with TCS' expertise in technical publishing and engineering services, our customers now have a complete solution that helps them accelerate the delivery of their products to market," said Right Hemisphere Vice President of Business Development Anton Commissaris.

TCS Global Head of Engineering and Industrial Services Regu Ayyaswamy said, "Our collaboration with Right Hemisphere will provide our clients with high quality technical documentation for their products. This enhances our ability to provide end-to-end product design solutions. Additionally, Right Hemisphere's ability to automate publishing of technical documentation to a secure, standard, and cross-platform PDF will ease the final publishing and distribution process for our customers."

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Roland's New Reverse Engineering Solution Saves Designers Hours Cleaning up Scanned Data

5 January 2007

Roland ASD's new LPX-60 reverse engineering solution improves the 3D-Scan-to-CAD process, boosting quality and productivity.

With the touch of a button, the LPX-60 reverse engineering solution generates detailed models with a 0.008-inch resolution. The LPX-60 automatically scans, aligns, merges planes, fills holes, and decimates 3D models. It then exports complex organic shapes in point cloud, STL, PIX and 3DM data formats.

The LPX-60 joins the upgraded Roland LPX-600 3D laser scanner, which can now also export complex organic shapes in point cloud, STL, PIX and 3DM data formats. The LPX-600 scans objects up to 16 inches tall and 10 inches in diameter, while the LPX-60 scans objects up to 12 inches tall and eight inches in diameter. Both are ideal for consumer products, packaging, jewelry, and a host of biomedical applications.

"Roland LPX-60 and LPX-600 create excellent reference geometry for [SolidWorks](#) users," said Efrat Ravid, solution partner program manager of SolidWorks® Corporation. "Their highly automated scanning solution combined with the new SolidWorks Office 2007 Premium ability to import and work with scan data significantly boosts productivity for our customers."

"Roland's automated workflow can save SolidWorks® users two to five hours per scanned object," said Pedro Gonzalez, Roland ASD 3D applications engineer. "SolidWorks users will be able to spend more time designing and significantly less time cleaning up scanned data."

The LPX-60 has a list price of \$7,995. The LPX-600 has a list price of \$11,995. Leasing options are available for all Roland products.

SolidWorks® 2007 Office Premium

SolidWorks® 2007 Office Premium software offers design teams opportunities to work faster and smarter in the quest for better products. It offers more than 200 new features, including a Mesh Prep Wizard and Surface Wizard that enables designers to quickly work with their scan data within SolidWorks. SolidWorks Premium also comes with ScanTo3D – an indispensable tool for any designer who needs to capture physical concept models, existing OEM parts, or anatomical objects and use these scanned renditions to build SolidWorks models.

Roland Advanced Solutions Division

Roland ASD develops advanced solutions for the sign making, engraving, jewelry design and CAD/CAM industries. Major products include GX series vinyl cutters, EGX series engravers, MDX series milling machines, LPX series 3D laser scanners, and the MPX-70 photo impact printer. The strategic business unit is a division of Roland DGA Corporation – an industry leader in wide-format printing and integrated print/cut technology. Roland ASD serves customers throughout North and South America with cutting-edge technologies and skilled dealers. For more information, call (888) 273-8895 or visit the Web site at <http://www.rolandasd.com>.

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SoftInWay Announces Release of AxSTREAM™ Educational Version for Radial Turbomachinery

2 January 2007

SoftInWay Inc, an innovator in advanced turbomachinery design software and the creator of AxSTREAM™ Design and Optimization suite of programs, unveiled a new version of its Radial Turbomachinery Flow Path Design and Optimization Program for use in colleges and universities. This new educational version provides students and faculty access to leading edge turbomachinery design and multidisciplinary optimization software at minimum expense.

This program constitutes a "learn as you go" course that aids students in understanding the overall design and performance principles of radial turbines and centrifugal compressors through the same fully interactive AxSTREAM™ design programs used by engineering professionals throughout the world. The educational version is configured to be easily integrated into the teaching process and course curricula.

"After the successful release of the educational version of AxSTREAM™ for axial turbines and compressors, we received many requests from university faculty to develop a similar module for radial turbomachinery," stated Dr. Leonid Moroz, President of [SoftInWay](#). "This module will add an important and advanced learning tool to academia."

"I believe SoftInWay has a very attractive product that contains a multitude of useful features, many of which are available only in much more expensive packages," stated Dr. Ian Halliwell, Research Scientist at Ohio State University. "AxSTREAM™ makes realistic turbomachinery design capabilities affordable. It bridges the gap between preliminary engine design and CFD. Engineering design is the process that turns thermodynamic concepts into hardware and to date, in the university design environment, it has been difficult to go beyond velocity diagrams in a realistic fashion, even on a senior level." With AxSTREAM™, this can be done quite readily, enabling student interest to be heightened by their being able to see a final product very quickly using tools that are similar to those used in the major engine companies."

Gaining marketable skills in turbomachinery design and multidisciplinary optimization, the student (individually or in study teams) will be able to:

- Design a flow path based on given overall application requirements;
- Mixed/Radial/Axial flow path Meanline analysis and optimization with support of “as-designed” and off-design operational conditions
- Appreciate the interactions between aerodynamic performance and mechanical integrity;
- Generate cascade profiles that easily relate to aerodynamic theory;
- Perform fully 3 dimensional blade design;

AxSTREAM™ v.2.0 brings to the industry new advantages and possibilities to streamline the process of turbomachinery design and analysis, substantially decrease time required for project development and facilitate end-user operation thereby making design and optimization processes more robust, sophisticated, and convenient.

The educational version of AxSTREAM™ for Radial Turbomachinery Design and Optimization is available for a short time at a special introductory price. Additional product information and ordering details can be viewed on SoftInWay's website, <http://www.softinway.com>.

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SWORD Releases Cimage Fusion 3.0

12 December 2006

SWORD Group announced the release of Cimage Fusion 3.0, a new and innovative web services framework built on the established and highly scalable Cimage Enterprise Content Management platform designed for regulated industries.

Cimage Fusion significantly reduces the cost and risk associated with managing technical content in heavily regulated industries.

Cimage Fusion 3.0 enables existing Cimage customers to greatly leverage their investment by quickly expanding into other business areas from HR to Accounts. These business areas are especially well served by proven Fusion 3.0 integrations with SAP, Microsoft Office, Outlook and SharePoint..

Fusion 3.0 leverages the latest Microsoft .NET web platform allowing remote users to securely access critical information on demand, from any location, without installing client software.

Fusion 3.0 architecture and performance has been greatly enhanced over previous versions, and has resulted in the most feature rich and powerful application set in the product history.

Whilst Cimage Fusion is known for being the leading industry application for managing complex, technically oriented content for engineering and capital projects, Fusion 3.0 has now cemented Cimage's position as a truly competitive world leading information management solution for both enterprises and for large engineering projects"

Karl Noakes, Director of Partner Development and Marketing at Microsoft UK said "As a Microsoft Gold Certified Partner, SWORD is among the elite of the Microsoft partner community. Our Gold partners are highly equipped to deliver business-driven technology solutions to their customers and are highly valued by Microsoft."

For more information about Cimage please click the Contact button: [Contact](#).

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Synplicity Revolutionizes ASIC Verification Methodology with new TotalRecall Technology

8 January 2007

Synplicity, Inc. released details on its TotalRecall™ Full Visibility Technology. Synplicity believes that this new technology will dramatically improve the utility of FPGA prototypes as ASIC verification vehicles by giving designers the ability to rapidly find bugs and verify that the correct fix has been made. The TotalRecall technology allows access to debug visibility that meets or exceeds that of an emulator, while running at speeds of 10× to 100× faster. In addition, this new innovative technology enables the capture of full signal information leading up to an event, as well as after the event occurs.

The TotalRecall technology allows the capture of all of the signals within a design (either a module or the full chip), including memory states, a user-defined number of cycles prior to the point at which an error occurs. The complete design state, along with an automatically generated test bench, can then be exported to an HDL simulator where the sequence can be replayed as many times as necessary until the problem is understood and a fix verified. The patented TotalRecall technology is unique in that it allows

fixes to be tested within the simulation environment using exactly the same signal values that led to the bug occurring in the first place.

The TotalRecall technology also supports powerful hardware verification techniques enabled by the use of assertions synthesized into hardware. Many IC designers use assertions in the design flow but do not fully utilize them for verification due to their slow simulation speeds. Synthesizing assertions into FPGA hardware allows aggressive use of assertions for verification, due to the high speed at which the assertion can be tested. For example, using a software simulator alone to run through a cell phone boot up sequence would take in excess of 30 days. In an FPGA prototype running at 20 MHz, however, that same boot up sequence can be accomplished in 3 seconds, allowing full use of assertions to detect bugs quickly and make fixes that can be rapidly validated [1]. Combining FPGA-based prototyping, assertion synthesis and the TotalRecall technology will enable bugs to be detected quickly when compared to other methods that would either miss or not be able to cover during verification.

“TotalRecall technology is an exciting step forward in debug visibility and productivity,” stated Gary Meyers, president and CEO at Synplicity. “Combined with the already high performance and low cost of FPGA prototypes, the new capabilities of the TotalRecall technology will position prototypes as the leading method for ASIC verification.”

Unlike other solutions, the TotalRecall technology works for non-deterministic bugs found in live running hardware. For this class of bugs, and other rarely occurring bugs, it is almost impossible to verify that changes made to the RTL code have truly fixed a bug. For these cases, combining the TotalRecall technology with FPGA-prototype speeds will uniquely capture full design visibility before and after the bug is triggered, providing the user with the full environment required to verify the fix.

Synplicity sees an opportunity for its TotalRecall technology to be well integrated with capabilities from outside partners, particularly members of its Partners in Prototyping program. Synplicity will be developing reference design flows and integration with all major simulation environments. Further details on products containing the TotalRecall technology will be available in mid 2007.

About Synplicity’s Partners in Prototyping Program

Many of the world’s leading FPGA-based prototyping board vendors have joined Synplicity’s Partners in Prototyping (PIP) program to develop flows for their boards using Synplicity’s tools. The PIP program is used to identify and qualify design methodologies between Synplicity’s prototyping applications and complementary RTL functional prototyping hardware, software and design services.

Members of the program include Altera, AMO GmbH, ARM, The Dini Group, EVE, Flexody, GiDEL, HARDI Electronics, Nallatech, ProDesign and SK-Electronics Co. For more information on Synplicity’s Partners in Prototyping go to <http://www.synplicity.com/partners/pip/index.html>.

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3Dconnexion Extends Support for SpaceNavigator Device to Macintosh Computers

10 January 2007

3Dconnexion, a Logitech company, announced immediate availability of its beta software for use of its SpaceNavigator™ device with Mac® OS X. The SpaceNavigator, a three-dimensional navigation device, offers 3D designers and enthusiasts intuitive and powerful 3D navigational control. 3Dconnexion plans to offer the final version of the software by the end of March 2007. The software will ship with the SpaceNavigator device, enabling it to work with select 3D applications on the Mac, including Google SketchUp™.

“We are excited about putting our popular SpaceNavigator device in the hands of the Mac community,” said Rory Dooley, president of 3Dconnexion. “Combined with the renowned graphics power of the Macintosh, the SpaceNavigator device provides a breakthrough experience for 3D users.”

“The legendary power and stability of Mac OS X, combined with innovative features like OpenGL support, make Mac OS X an outstanding 3D graphics platform,” said Ron Okamoto, Apple’s vice president of Worldwide Developer Relations. “We’re thrilled to see 3Dconnexion’s SpaceNavigator device harness the features of Mac OS X and the power of our Intel-based Macs to help design professionals create new 3D worlds.”

A companion to the mouse, and held in the alternate hand, the SpaceNavigator device significantly reduces the number of times people need to switch tools to manipulate 3D imagery, increasing productivity. In addition, people can use the device to simultaneously pan, zoom and rotate 3D objects, which is not possible with a mouse and keyboard alone. People who use multiple 3D applications can appreciate how the SpaceNavigator device unifies the unique navigation systems of each application into a single easy-to-use device.

3D designers, students, educators and enthusiasts who have a SpaceNavigator device can participate in the public beta program by downloading the Universal Binary-Compliant driver for Macintosh, 3DxMacWare, at www.3Dconnexion.com. Participants must be running Mac OS X 10.4.6 or later and must have an available 10 MB of disk space and USB 1.1 or 2.0.

Initially, the 3DxMacWare™ public beta will support Google SketchUp 6.0, Autodesk® Maya® 7 and above (with MelScripts available from 3Dconnexion) and auto•des•sys form.Z© 6.1 (must have 3DxMacWare plus the downloadable plug-in from the form.Z Web site). Additional Mac-based 3D applications will be added as the beta program progresses. By the end of March 2007, 3Dconnexion’s SpaceNavigator device will ship with the 3DxMacWare.

3Dconnexion’s SpaceNavigator device will be demonstrated in 3Dconnexion’s booth (#4014) at the Macworld Conference & Expo in San Francisco, January 8-12; and at the 2007 International Consumer Electronics Show in Las Vegas, January 8–11, in Logitech’s booth, #35512 in the South Hall.

Pricing and Availability

The SpaceNavigator PE (personal edition) has a suggested retail price of \$59. The personal edition license supports non-commercial use of the device and offers online technical support only. The SpaceNavigator SE (standard edition) has a suggested retail price of \$99. The standard edition license comes with an unrestricted user's license and 2-years of full support (Web, e-mail and phone). Upgrades from SpaceNavigator PE to SpaceNavigator SE licenses are \$40 and are available online at <http://www.3Dconnexion.com>.

SpaceNavigator is available through major online resellers, including Amazon and CDW; a network of value added resellers; and directly from 3Dconnexion at www.3Dconnexion.com.

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UGS Publishes JT Data Format, Paving the Way for a Common 3D Language for the Global Manufacturing Industry

8 January 2007

[UGS Corp.](#) announced it has published a reference to the latest version of the JT™ data format, thereby completing the next logical step in establishing a common language that allows the global manufacturing industry to seamlessly share and retain 3D product data.

Established more than 10 years ago, JT has evolved from a lightweight alternative data format for viewing large CAD files, to a flexible specification that can be used for a wide variety of purposes including product visualization, collaboration and even manufacturing. Today, JT is the PLM industry's most widely used 3D data format for product visualization and collaboration and, through the publishing of its specification, its appeal for use as a long-term data retention format is significantly enhanced.

“The publication of the JT data format reinforces its openness and viability as an enduring data standard,” said Alfred Katzenbach, DaimlerChrysler's director of Information Technology Group Research and Mercedes Car Group development. “Today's announcement paves the way for DaimlerChrysler to use JT as the 3D master format to digitally represent our products in PLM workflows, including visual product reviews, global supplier collaboration and long-term data archival.”

Enhancing innovation through collaboration

Manufacturers around the world work in heterogeneous PLM environments consisting of a variety of product lifecycle software applications. JT serves as a common language to share 3D product data and increase productivity in this environment. Publishing JT further enhances user confidence in the format and will serve to accelerate the development of 'JT-enabled' software applications that promote product innovation through enhanced collaboration.

Comprehensive reference

Officially published in December 2006, UGS' Version 8.1 – JT File Format Reference, is a comprehensive 250-page document that details the JT file format, from a complete description of its file structure and data segments, to a thorough discussion of JT data compression, encoding and best practices.

“We have evaluated this document and attest to it being an extremely well organized and exhaustive reference that can be used by anyone needing to read and/or create the JT file format,” said Reiner Anderl, Technische Universität Darmstadt professor. “By fulfilling its pledge to publish JT, UGS continues to demonstrate an open business model for its customers.”

JT Open Program members demonstrate leadership; maintain benefits

The ongoing development, proliferation and promotion of JT is supported by the JT Open Program, a global organization consisting of leading manufacturers, ISVs and academic institutions interested in establishing a pervasive and open standard throughout the world for digitally representing 3D product data. In November 2005, the JT Open Management Review Board (MRB) unanimously agreed that, due to JT's technical maturity and high level of industry adoption, the time was right to begin the process of publishing the format. JT Open members continue to enjoy exclusive membership benefits that allow them to have influence on the evolution of the JT format and access to the UGS built technology for reading and writing JT.

“When UGS helped form the JT Open Program in November 2003, we made a commitment to our customers and to the JT Open members to publish JT at an appropriate time in the future that would provide optimal benefit to JT Open members and to the larger PLM industry,” said Chuck Grindstaff, executive vice president of Products, UGS. “We are proud to fulfill that commitment today and we are grateful for the strong leadership that has been demonstrated by the JT Open Program members in helping manufacturers throughout the world transform their process of innovation through a common language for PLM.”

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US Patent and Trademark Office Approves AcceliCAD Trademark

5 January 2007

Autodsys (<http://www.autodsys.com/>) announced that it has successfully registered the AcceliCAD trademark.

“This allows Autodsys to proceed with the impending release of AcceliCAD 2007” said Ronald Prepchuk, President of Autodsys, Inc. “AcceliCAD contains exciting new features that will give users a more pleasurable CAD drawing experience, and we can now look forward to making it available to them.”

About AcceliCAD

AcceliCAD is based on IntelliCAD software and contains all of its standard features including DWG file support as well as support for industry standard commands, menu files, script files, shape files, text fonts, hatch patterns, linetypes, LISP programs, SDS/C++ programs, and VBA programs. It also contains many advanced features that make it easier to create and edit DWG files. AcceliCAD is expected to be released in January with a suggested retail price of \$375.

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Visiprise Manufacturing Now an SAP-Endorsed Business Solution

11 January 2007

Visiprise, Inc. announced that its Visiprise Manufacturing solution is now an SAP-Endorsed Business Solution. Visiprise previously executed a software development cooperation agreement that was a catalyst for SAP to endorse Visiprise Manufacturing, after joint development was completed.

The endorsement builds on Visiprise's already successful business relationship with SAP. As part of the agreement both Visiprise and SAP will provide development resources, exchange and share technology and product roadmaps, promote and sell the jointly-developed manufacturing operation solution in concert, and ensure that customers are able to continue to utilize the solutions when either company releases updated versions of their software.

The Visiprise Manufacturing solution offers complex discrete manufacturers tight integration of the manufacturing shop floor to the entire enterprise. This gives customers global visibility into manufacturing operations to collect and communicate real-time manufacturing information to the entire enterprise for a continuous loop in the product lifecycle. This results in manufacturing high-quality products with complete control of the manufacturing process.

"SAP's endorsement of Visiprise will allow both companies to leverage each other's strong industry knowledge to effectively support, develop, and commercialize integration content and technologies," said Carter Johnson, senior vice president of corporate development for Visiprise. "This will result in customer solutions that fully utilize the powerful capabilities of both organizations."

One output of the agreement is a package that streamlines integration between [Visiprise](#) and SAP applications, employs both companies' long-term plans and technological visions, and creates industry-specific integration content in collaboration with a joint customer base. The solution is based upon SAP xAPP Manufacturing Integration and Intelligence, or xMII. The first release is planned in early 2007.

"This endorsement from SAP continues to build on the successes SAP and Visiprise have enjoyed over the last years," said Frank Schuler, vice president of solution management manufacturing at SAP. "Using the power of both applications in a tightly integrated fashion ensures our customers are able to benefit from deep manufacturing operations visibility across the entire enterprise."

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