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Acquisitions

Autodesk Completes Acquisition of Robobat

15 January 2008

[Autodesk, Inc.](#) announced that it has completed the acquisition of Robobat for approximately \$42.5 million in USD cash subject to a working capital adjustment. On November 15, 2007, Autodesk announced an agreement to acquire Robobat, a privately-held company based in Grenoble, France, that provides software for structural engineering analysis, design, and steel and concrete detailing. The acquisition complements Autodesk's current structural engineering software offerings and will help Autodesk provide a more complete set of well integrated solutions to the structural engineering industry.

Autodesk's acquisition of Robobat supports the company's vision for building information modeling (BIM) and will enable Autodesk to develop structural analysis and detailing solutions that leverage the information at the heart of BIM, from design to fabrication. Autodesk plans to continue support for current Robobat products while working to develop new solutions for structural engineering, detailing and analysis that incorporate both Robobat and Autodesk technology.

"We're happy to welcome Robobat customers, partners, and employees to the Autodesk community," said Jay Bhatt, Autodesk senior vice president, architecture, engineering and construction (AEC). "And we're particularly excited to integrate the Robobat technology with Revit Structure, which will further extend the power of BIM to structural engineers, designers and drafters around the world."

"Robobat is excited to join Autodesk and introduce our software to new audiences around the world," said Andre Niznik, CEO, Robobat. "We also look forward to incorporating Robobat and Autodesk technology to create innovative new solutions for our structural engineering customers."

The combined company provides software to many of the world's leading engineering firms including Arup, Buro Happold, Thornton-Tomasetti, WSP Cantor Seinuk, and Walter P. Moore. Autodesk's structural engineering software has been used on many high-profile projects including the Freedom Tower, Stade de France, Shanghai South Rail Station, Athens Olympic Stadium, Millau Viaduct, and the hangar for the Airbus A380 aircraft.

Business Outlook

This transaction is expected to decrease targeted GAAP earnings per diluted share by \$0.01 in fiscal 2008 and \$0.01 in fiscal 2009. Excluding in-process R&D expenses and the amortization of acquisition-related intangibles, this transaction is expected to have no impact on targeted non-GAAP earnings per diluted share for fiscal 2008 or fiscal 2009.

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MSC.Software Strengthens its Position in Thermal Management Markets With Acquisition of Network Analysis, Inc.

14 January 2008

[MSC.Software](#) expands its world-class thermal solution portfolio through its acquisition of Arizona-based Network Analysis, Inc. (NAI), a global innovator of thermal simulation software and the developers of the SINDA/G™ advanced thermal modeling software. The NAI acquisition by MSC.Software comes complete with all of NAI's expert technical staff, allowing continuity of NAI's

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business while concurrently complementing MSC.Software's world-class development organization.

SINDA/G is a trusted thermal design system comprised of a proven thermal solver that solves large complex nonlinear thermal models involving temperature-dependent thermal properties, radiation and orthotropic material properties. SINDA/G also comes with specialty connections to major thermal radiation codes such as THERMICA, NEVADA, TRASYS, TSS and NAI's fast new radiation solver SINDARad enabling critical orbital heating effects to be included in satellite simulations that can be chained with subsequent thermal/stress predictions. In addition, SINDA/G comes with plug-in capabilities to enable seamless integration into existing thermal modeling environments, allowing transparent access to SINDA/G's advanced thermal capabilities and automatic synchronization between the finite element and network thermal representations of a given system.

When combined with MSC.Software's flagship thermal management solutions such as P/Thermal, Marc thermal and Nastran thermal, the SINDA/G thermal solutions solidifies MSC.Software's ability to serve multi-billion dollar market segments including jet engines. Furthermore, the MSC.Software-NAI synergies opens access to broader thermal management markets such as mechatronics and electronics cooling, as well as re-emerging markets such as commercial and defense satellites which has been invigorated by office-in-the-sky airborne internet and Homeland Security needs. NAI's proven advanced thermal solutions complement MSC.Software's CFD initiative and accelerate MSC's realization of scalable, high-confidence, Multi-Disciplinary simulations for complex systems.

"MSC.Software is committed to providing our customers with consistent product development excellence," said Bill Weyand, CEO of MSC.Software. "The acquisition of Network Analysis provides our customers with innovative thermal capabilities for advanced simulations involving complex thermal environments such as jet engines and orbiting satellites. It complements MSC.Software's solutions for thermal-stress analysis in aerospace, automotive and electronics applications."

"Network Analysis customers will benefit from the breadth of the MSC.Software product suite, ensuring continued technology access and development," said Ron Behee, President of Network Analysis. "We are committed to a seamless and timely transition for NAI's customers."

About Network Analysis, Inc.

Network Analysis, Inc. (NAI) was founded in 1982 to develop, market and support thermal analysis software. Building on the foundation laid by its founder Jerry Gaski, NAI continues to extend the capabilities of SINDA/G through innovative development under the leadership of its president, Ron Behee. Working closely with such major customers as Boeing, Lockheed Martin, Northrop Grumman, Hamilton Sundstrand, Raytheon and major NASA centers, NAI markets its products worldwide in over 25 countries and is headquartered in the Stellar Airpark, 4151 W. Lindbergh Way, Chandler, AZ 85226.

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Oracle Buys Document Capture Leader Captovation

16 January 2008

Oracle announced that it has agreed to acquire Captovation, a provider of document capture solutions that streamline the process of capturing mission-critical content for access from within business applications and processes. The acquisition is expected to strengthen Oracle's leading Enterprise Content Management (ECM) software portfolio to provide an integrated and automated solution for overall transactional content management that will help reduce costs, streamline critical business processes and

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simplify regulatory compliance.

Captovation's software is expected to be a core component of Oracle Enterprise Content Management, which provides comprehensive capabilities for managing dynamic, transactional and historical content. Oracle Enterprise Content Management is a component of Oracle Fusion Middleware, the industry's fastest growing, most standards-compliant, and best-of-breed technology foundation for Service-Oriented Architecture.

"Oracle is committed to expanding its leadership in the ECM segment by creating the most complete, integrated, usable, manageable and hot pluggable content management platform through organic growth and intelligent acquisitions," said Thomas Kurian, Senior Vice President, Oracle Server Technologies. "By adding document capture to Oracle's leading content management, process automation and back office applications, Oracle will be the only vendor that can provide customers with a fully integrated solution for automating back office operations."

"Captovation and Oracle share an approach to ECM focused on capturing and integrating critical content to better support business processes -- a synergy evidenced by the hundreds of successful customer deployments we also share," said Captovation's President and CEO, Ken Peterka. "We're excited about the acquisition and look forward to ongoing product enhancements to benefit our customers and partners."

The transaction is expected to close by February 2008. Until the deal closes, each company will continue to operate independently. Financial details of the transaction were not disclosed. More information is available at <http://www.oracle.com/captovation>.

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CIMdata News

CIMdata Publishes a Program Review of Siemens' Teamcenter Express

15 January 2008

CIMdata consulting and research firm announces the availability of a new program review of Teamcenter Express, Siemens PLM Software's collaborative Product Definition management (cPDM) solution. The program review provides an overall description as well as CIMdata's assessment of the Teamcenter Express program for the Product Lifecycle Management (PLM) market.

Teamcenter Express is the core data management component of the UGS Velocity Series—a set of preconfigured and easy-to-deploy design and data management PLM-enabling solutions. It is intended to address the product design through manufacturing planning needs of small- to medium-sized companies.

Peter Bilello, CIMdata Director of Consulting Services, explained that mid-market solutions like Siemens' Teamcenter Express focus on PLM issues that affect multiple industries including mechanical machinery and equipment, electromechanical, automotive products, consumer products, and others. He explained, "The capabilities provided by these solutions best support small- to medium-sized manufacturing companies who design/engineer parts, components, and assemblies that are low to

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medium in complexity. These companies focus their requirements on data vault management, workflow automation, and applications that support specific needs in the engineering/manufacturing process such as change management, process planning, and quality assurance.”

Mr. Bilello added that, “the key to success in this mid-market PLM space is the development and delivery of out-of-the-box applications and business solutions based on best practices that support an enterprise’s product definition information management requirements. Siemens’ Teamcenter Express and the rest of the UGS Velocity series’ components are intended to deliver to this model.”

Mr. Bilello said, “CIMdata is impressed with the comprehensive approach Siemens has taken, which clearly illustrates their commitment to the mid-market.” He added, “What is particularly impressive and beneficial for small- to mid-sized companies is that the various components of the offering are quick and easy-to-install, and completely scalable to the full range of Siemens’ enterprise-level PLM solutions.”

For more information please contact CIMdata at +1(734) 668-9922. Copies of the Teamcenter Express Program Review are available at no cost through the [CIMdata](#) website.

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Company News

Centric Software Names Ray Hein Executive Vice President of Market Strategy and Business Development

15 January 2008

Centric Software announced that Ray Hein has joined the company as executive vice president of market strategy and business development. Hein will leverage his deep domain expertise in Product Lifecycle Management (PLM) and broad industry relationships to propel Centric’s corporate strategy, marketing and strategic partnerships forward. The combination of Hein’s appointment and Centric’s \$14.3 million series B financing are key building blocks for the company’s next phase of growth. (See separate press release: Centric Software Secures \$14 Million Series B Financing – 01.15.08.)

“Ray Hein is widely recognized as an industry thought leader in collaborative PLM solutions and is a great addition to our management team,” said Chris Groves, president and CEO of Centric Software. “We are confident that Ray’s expertise will help us increase the market awareness and customer adoption of our PLM offerings, which are instrumental strategies to achieve our next phase of growth.”

Hein brings 18 years of executive management experience to Centric Software. He spent the past decade at Agile Software, a leading PLM software company recently acquired by Oracle. While at Agile, Hein served as vice president of product strategy and vice president of product management. During his tenure at Agile, Hein played a key role in creating the company’s enterprise PLM strategy and market leadership by expanding into new industry verticals, developing strategic corporate partnerships and executing six merger acquisitions. Prior to Agile, Hein held various product management and product development positions at Micom, Micropolis Corporation and Storage Dimensions.

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"This is an exciting time to join Centric Software to grow new markets with Centric's unique solution set," said Hein. "In the near term, I will focus on expanding and refining our industry and product roadmaps for our current offerings. Developing key partner relationships and rounding out our go-to market strategy are also top priorities."

[Centric](#) offers unique PLM solutions for AFA and other fast-moving consumer industries. The company's powerful Product Intelligence™ platform assures that everyone involved in the line planning, product design, sourcing and supply chain processes has secure access to the most up-to-date, comprehensive view of their products and product lines, operations execution and business performance. Unmatched data aggregation functionality within Centric's solutions allow all information about the product—visual, data-based, text-based, etc.—to easily be collected in a aggregate repository that is readily accessed by any user without requiring specialized IT skills. Centric's Product Intelligence™ capabilities provide multi-level analysis and web-based dashboards to managers, allowing them to quickly spot trends and exceptions. This combination of capabilities helps product teams collect relevant information for product initiatives, form action plans, execute those plans and assess progress against business goals. Importantly, Centric's application suite can be fully deployed in weeks rather than the months or years typically required to implement traditional PLM solutions.

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CGTech Celebrates 20th Anniversary

16 January 2008

CGTech announced its twentieth year as the leading developer of NC program simulation and analysis software. Flourishing through an era when software companies came and went, CGTech has achieved two decades of innovation and steady growth.

"CGTech has a proven track record of success in advanced machine simulation technology which Remmele Engineering Inc. relies on for efficient and accurate machining results," said Mark Conley, CAM/EDI Center Manager, Remmele Engineering. "Their support of our technical needs for complex machining has been outstanding."

CGTech began when Jon Prun, the company's founder and President, recognized a need to verify NC tool path programs without wasting valuable CNC machining time on a prove-out part. As a result, Prun developed VERICUT® software: the world's first widely available, productive method to test numerical control (NC) machine tool paths, without using a machine tool. VERICUT revolutionized NC program verification with an extremely fast algorithm designed to run on desktop computers that simulates material removal using a three-dimensional solid model.

Since its initial release, VERICUT has been enhanced to optimize feed rates and simulate the kinematics of complex multi-axis and multi-spindle CNC machine tools. CGTech's continual updating and enhancement of VERICUT reflects the company's ongoing commitment to delivering innovative, powerful, and robust solutions for manufacturers. As part of this commitment, VERICUT is 100% developed in-house by CGTech software engineers who have many years of experience in the mechanical CAD/CAM industry.

"We wouldn't be in position to celebrate our 20th without the loyal support of all those who use VERICUT," said Prun. "VERICUT development has always been driven by our customers' needs, and we always welcome feedback from users."

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CGTech has seen notable growth during the past two decades, and its customer list consists of thousands of companies in virtually every manufacturing industry, including every major aerospace and automotive company. Wholly-owned subsidiary companies have been founded in the United Kingdom, France, Germany, Italy, Japan and China to directly support customers worldwide.

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Craig Livingston Named New Chief Executive Officer of Mid-Market SaaS PLM Leader Arena Solutions

16 January 2008

[Arena Solutions](#) announced it has named Craig Livingston, a former Agile PLM executive, as the company's new chief executive officer. He will succeed Michael Topolovac, company co-founder, who after eight years as CEO, decided to turn over reigns of Arena Solutions, but will continue to support the company in an active role serving on its Board of Directors. Topolovac co-founded Arena Solutions in 2000 with Eric Larkin, who continues to serve as the chief technology officer of the company.

“Michael Topolovac’s remarkable achievement of pioneering the development of two fast-growing spaces—PLM and on-demand—has turned Arena Solutions into a true industry leader. Michael had the insight to build what the market was lacking—an affordable solution that combined the power of PLM with the advantage of on-demand delivery that has been successfully adopted by more than 300 manufacturers,” said Martin Huml, chairman of Arena Solutions’ board of directors. “With Arena poised on the edge of more expansive growth, Livingston’s impressive track record as a leader who helped shape and grow a thriving PLM business serving small- to medium-sized enterprises made him our ideal choice for Arena’s CEO position. His deep understanding of our customers’ needs and the global PLM market will be a huge advantage as he leads the company in its next phase of growth and success.”

“It is an honor to assume leadership of Arena Solutions at such an opportune moment,” said Livingston. “Arena PLM is an impressive solution that is already behind great products from companies like Intuit, Tesla Motors, First Alert, Align Technology, Segway and Foundry Networks. Arena is also benefiting from a change in the competitive environment. Its closest competitor—one with which I have been quite intimate—has recently been acquired by Oracle and diverted from serving the segment of the mid-market where the two companies once competed. This development has driven once on-the-fence customers to firmly select Arena PLM and help the company further solidify its position as the leading mid-market PLM provider without a CAD or ERP agenda and the only on-demand PLM vendor. The business case for PLM—especially Arena on-demand PLM—for small- and medium-sized enterprises has never been stronger than it is right now. My commitment is to leverage the strength of Arena’s on-demand solution with the vitality, deep expertise, and customer-intimacy of our organization, to generate Arena Solutions’ success for years to come.”

Previously, Livingston served as the vice president and general manager of Agile’s SME Solutions division and was responsible for global operations for developing, marketing, distributing, and supporting PLM solutions focused on the needs of small and mid-sized manufacturers. Prior to Agile, Livingston held various executive sales and operations positions at other engineering and enterprise software leaders, including think3, PeopleSoft, CCI/Triad, and Borland.

“There is much we have accomplished since inception, but what I am most proud of is the incredible product our team has built and I am particularly honored that many of the world’s most innovative companies and thousands of users have chosen Arena PLM to help them bring their products to market.

I am also especially enthusiastic about the promise of where I see the business headed—our opportunities are tremendous," said Topolovac. "My desire to pursue other personal interests and the onset of this rapid growth phase drove my decision to find the right successor to effectively lead the company, maximize its growth, and take it to its next level. Craig is a great business leader with valuable and truly relevant experience. I am delighted we've selected him as Arena Solutions' new CEO."

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EDS 8: Manufacturing a More Agile 2008

16 January 2008

As they head into 2008, manufacturers are anxiously wondering what lies ahead. With a record number of news stories during last year focused on recalled products, raw material shortages and industry consolidation, the list of challenges grew a little longer these past 12 months. Manufacturers continue to see an impact on their entire business model as the world shrinks and flattens, and centers of manufacturing activity shift to new locations. How can manufacturers prepare for the uncertainties of the future while becoming even more agile?

"Manufacturing companies are forced to shift their strategy across the board in order to thrive in our flat world," said Ben Langlinais, EDS director of global manufacturing industry solutions. "Agility and the need for an adaptive enterprise will remain a top priority for manufacturers around the globe."

EDS, a leader in providing IT services to manufacturers, predicts that these major trends will influence companies in 2008.

1. Global Integration and Collaboration -- With accelerated globalization to tap emerging markets for new sources of revenue and benefit from low-cost regions for production capacity, manufacturers are experiencing an increased risk level in their supply chain, product development, the creation and management of new alliances, and their global workforce management.
2. Moving Beyond Lean -- In addition to the continued focus on lean, challenges such as shorter product cycles, increased customer demands, the pursuit of lower-cost locations and the race to new markets all require that manufacturers move toward an agile and adaptive enterprise while creating a new culture of flexibility.
3. Going Green -- Growing demand for natural resources including oil, steel and resin have created a new generation of environmentally conscious customers who are demanding greener products. These concerned consumers are forcing manufacturers to change their design, production processes and product mix.

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4. Regulatory Pressures -- Government and industry regulations, including environment, safety, corporate governance and product performance, are being enforced around the world with different standards. Different standards have created a new criticality for data tracking, including a need to collect and report more information and an increased tracking of products.
5. Proliferation of Electronic/Digital Content -- The continued increase of electronic or digital content in products is creating a new level of security concerns and product sophistication, while simultaneously causing skill shortages and a demand for new competencies.
6. Product Commoditization -- While customers want products they feel are customized to their own unique needs, the pressure on cost and quality continues to increase. Products are becoming commoditized at a much faster pace due to growing consumerism, forcing manufacturers toward demand-driven manufacturing.
7. Service Focus -- The shift from a product to a service focus is forcing manufacturers to gain real-time market insight by working closely with customers. While client service remains a priority, manufacturers have a need to collaborate with customers in addition to their existing supply chain.
8. Convergence of Business and Technology -- While outsourcing of non-core processes continues to grow, the focus will shift toward tighter alignment of business and technology. Innovative use of information and integrated manufacturing enterprise will be key to gain a competitive advantage.

[EDS](#) has significant industry-based knowledge in the aerospace & defense, automotive, high tech and industrial manufacturing segments, with more than 30 years of experience working with manufacturers. More than 25,000 EDS employees serve over 220 manufacturing clients in 40 countries.

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ENGINEERING.com Launches Engineering Video Section

15 January 2008

ENGINEERING.com announced the launch of its latest online feature. The new Engineering Videos section offers visitors a selection of streaming video clips posted by members of the

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ENGINEERING.com community. In addition to uploading and viewing videos, members can also rate and comment on videos posted by others.

The new video section is similar to some of the more popular video sites on the Internet, but is focused on engineering content. Video categories include Engineering Projects, Principles of Science and Engineering, Software Tutorials and Demos, and Humor. As this section of the website continues to grow, more categories will be added to suit the content. To view the most recent videos please visit the [Engineering Videos](#) section of ENGINEERING.com.

"Our members have given us many suggestions on how to best serve all engineers with our Internet-based tools," said John Hayes, President of ENGINEERING.com. "This new video section is the latest feature that we've launched to engage and support these members. In the near future, ENGINEERING.com members can also expect an improved Careers section, better online collaboration tools, and even a desktop software tool for more efficient task management."

ENGINEERING.com offers free Internet-based services to engineers such as job postings, downloadable tools, games, and access to engineering knowledge at www.ENGINEERING.com.

ENGINEERING.com Incorporated is the developer-owner of the www.ENGINEERING.com Web site and Internet-based software and business. ENGINEERING.com offers hosted and deployed engineering software and services to manufacturers, design consultants and engineering academia around the world. The ENGINEERING.com Incorporated head office is located in Mississauga, Ontario, Canada and can be reached toll-free at 1-877-997-9917, by facsimile at 905-273-6691 or through the Internet at www.ENGINEERING.com.

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INCAT Congratulates Tata Motors on Nano Introduction

15 January 2008

INCAT offered the company's congratulations to Tata Motors on its January 10 introduction its "Peoples' Car" – the Nano – at the 2008 New Delhi Auto Expo.

"This vehicle will truly revolutionize transportation in emerging markets," said INCAT CEO Warren Harris, speaking on behalf of INCAT during press preview days at the North American International Auto Show in Detroit. "All of us at INCAT are proud of this historical achievement by our colleagues at Tata Motors, and pleased to have played a part in making it real."

Harris noted that he plans to bring one of the Nano production models to the INCAT North American Headquarters in Novi, Mich., and display it in the lobby later this year. "We plan to give the media and the public an up-close look at this historic vehicle; and an opportunity to share our excitement," he said.

NAIAS Note: [INCAT](#) engineers, designers and manufacturing consultants had a hand in the creation of more than 30 of the concept vehicles and production models on display at this year's North American International Auto Show in Detroit.

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INCAT Names New Chief Marketing Officer

15 January 2008

CIMdata PLM Industry Summary

INCAT announced the appointment of Indraneel Ganguli as INCAT Chief Marketing Officer (CMO). He will report directly to INCAT CEO Warren Harris and will be responsible for development and implementation of INCAT marketing and brand strategies worldwide.

"I am confident that with his background and experience, Indraneel and the global marketing team he will lead, will make significant contributions to the transformation of INCAT and real progress toward the goals of INCAT 500," said Harris. INCAT 500 is an initiative, launched by Harris in April 2007, designed to transform [INCAT](#) and position the company to dominate the world's ESO market, while more than doubling its worldwide work force by 2010.

"Marketing starts and ends with a sense of enterprise that includes original and creative ideas working for the brand and the business," Ganguli said. "The key is to delight your stakeholders always."

Prior to joining INCAT, Ganguli served as Vice President -- Global Marketing and Communications of Satyam, a global IT consulting and services provider; and as Director -- Marketing of Nipuna, a Satyam affiliate organization. Under his leadership, Satyam emerged as one of "India's Best Brands" as awarded at the Asia Brand Congress in 2007.

With more than 15 years of diverse marketing and brand-building experience, Ganguli likes to straddle different businesses, domains and portfolios. In his career, he served companies such as Bharti Broadband Networks, Bates and Lintas. He also was involved in the brand-building processes for international majors including Coca Cola, ITC, Philips and Dulux. With a Business Major in Marketing, Ganguli frequently takes time off from his schedule to speak at various professional forums and academic institutions.

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Nominations for Ninth Annual Marie R. Pistilli Women in Electronic Design Automation Achievement Award Accepted Until March 7, 2008

16 January 2008

The Design Automation Conference (DAC) announced that nominations are being accepted until March 7 for the Marie R. Pistilli Women in Electronic Design Automation (EDA) Achievement Award. Named for Marie R. Pistilli, the former organizer of the Design Automation Conference (DAC), the award recognizes individuals who have contributed significantly to the advancement of women in the EDA industry. This year's award will be presented to the 2008 recipient at the Workshop for Women in Design Automation (WWINDA) on Monday, June 9, 2008 during the 45th DAC in Anaheim, Calif. Registration for WWINDA and DAC will open March 23.

"This annual award is an important way of acknowledging the significant contributions of women to this industry," said Peggy Aycinena, this year's WWINDA Chair: "We look forward to reviewing this year's nominations and learning more about the individuals who are advancing women in EDA."

To be considered, an individual should have been responsible for the launch or management of a successful product that included contributions from women or a program that has created opportunities for women. Nominees may also be leaders within a company or organization that has helped raise the awareness of women or they may have served as a mentor or role model for successful women in EDA.

The award is open to both men and women with technical or non-technical backgrounds in industry or academia. For more information on the award, including previous recipients and nomination forms, visit the DAC Web site <http://www.dac.com/45th/mrpaward.html>.

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Physical Modeling Consortium Founded by Maplesoft Brings Together Automotive Giants at a Common Forum

15 January 2008

Maplesoft™ announced the founding of the Physical Modeling Consortium, a forum in which organizations can share ideas and advance the development of Rapid Plant Modeling methodology based on symbolic computation. As the founder and organizer, Maplesoft brings together leading companies in the automotive sector to discuss and explore shared challenges and new ideas.

The inaugural meeting of the consortium was held in California in conjunction with the International Federation of Automatic Control (IFAC) Symposium on Advances in Automotive Control. At this meeting, Toyota presented its vision for the future development in Rapid Plant Modeling methodology based on symbolic computation, and Maplesoft presented research and development in support of this vision.

Attendees at this initial consortium meeting included representatives from major players in the auto industry, including OEMs, Tier 1 suppliers, consultancies, and academic researchers. Over 25 organizations participated in the initial meeting, and several others have expressed interest in future meetings.

Subsequent meetings of the Physical Modeling Consortium will take place in February 2008 in Berlin, Germany, and in July 2008 in Seoul, Korea.

Over the past 15 years, the automotive industry has succeeded in addressing the need for fast and effective design, simulation, and development of control systems through “off-the-shelf” software tools. Companies such as Toyota have led the adoption of such tools and the concept of Model-Based Design. However, today, automotive industry leaders recognize the need for a new set of software tools and methods to address the parallel problem of physical modeling (or “plant” modeling).

“Symbolic computation techniques offer a natural paradigm for physical modeling, and provide model simplification capabilities that deliver the fastest possible execution speed and are critical for today's complex systems,” said Laurent Bernardin, Chief Scientist and Vice President of Research and Development, Maplesoft. “Using mathematical solving tools such as Maple™, engineers can arrive at concise and computationally efficient models. These tools can substantially ease the modeling process of automotive systems. We see companies increasingly using these tools to address their most challenging problems.”

Maplesoft is a recognized leader in mathematical software. Maple, its flagship product, includes a fully-integrated set of industry-standard numeric solvers. The Maplesoft product line integrates tightly with existing customer tool chains, which include tools from The MathWorks®, 3-D CAD systems, real-time hardware systems, and spreadsheets.

Maplesoft's range of engineering modeling tools offers solutions to high-fidelity modeling problems, such as those involving the implementation of vehicle dynamics in real-time simulators for hardware-in-the-loop testing.

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Primavera® Strengthens Presence in Greece

16 January 2008

[Primavera](#) Systems, Inc., announced that it has further expanded sales, support and training resources by appointing [Atlantis Research](#), Greece as a new Primavera Authorised Representative (PAR).

Atlantis Research has significant expertise in project consulting services in both the public and private sector. The company has significant experience in supporting customer bids for development funding from the European Union (EU) and Greek government as well as in providing portfolio, programme and project management expertise and training.

“Atlantis Research will now be able to complement its skilled services by offering customers access to Primavera’s industry specific software solutions, training and support,” said Dean Forbes, vice president, international sales, Primavera. “We have been most impressed with Atlantis Research - its commitment to customers, reputation and breadth of experience are exceptional.”

“Primavera is a powerful solution that helps organisations choose the right projects and deliver them successfully,” said Paul Lekkas, director, Atlantis Research. “We are delighted to be able to offer our customers access to these best-of-breed solutions.”

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WTWH Media, LLC Expands Relationship with TraceParts

15 January 2008

WTWH Media, LLC announced an expanded partnership with TraceParts, a global supplier of 3D Engineering Content. Through this partnership, Design World is named as exclusive North American reseller for assisting and supporting suppliers in the data migration process to a 3D catalog. The CAD catalogs are then available across the TraceParts media platform including www.designworldonline.com, www.tracepartsonline.net, SolidWorks® www.3dcontentcentral.com, Google Warehouse™, and a number of other popular CAD communities.

Additionally, Design World will leverage the TraceParts international audience to its portfolio of network offerings. TracePartsOnline.net is a 3D supplier catalog community with over 5.2 million monthly page views and over 300,000 registered users. Marketers have the ability to run globally geo-targeted messages to this rapidly growing audience.

"Manufacturers are updating their marketing programs so they can increase customer satisfaction and product exposure," says Bob Noftle, [TraceParts](#) president. "This partnership provides manufacturers the program flexibility they're looking for and allows for maximum exposure of 3D models to the design engineer OEM and machine builder audience."

“Marketers are seeking a higher ROI by implementing 3D CAD model online catalogs and the TraceParts solution fits perfectly with Design World Online programs,” said Mike Emich, co-founder Design World. “These catalogs also promote higher efficiencies in engineering customer support by allowing the design engineer to configure the model to their specifications. It’s a three-way win for engineering, marketing, and the design engineer. We’re pleased to provide our OEM design engineering audience valuable 3D services and content through our TraceParts partnership.”

About WTWH Media, LLC

WTWH Media, LLC is leading innovation in the b-to-b media space with Design World Magazine and the Design World Network of community websites. The Design World Online network delivers over 7 million monthly page views with 390,000 registered users making it the fastest growing and most extensive online offering serving the design engineering market. All properties are focused on serving the design engineer, machine builder and OEM in several growth markets including medical, packaging, semiconductor, and factory automation. More information at <http://www.designworldonline.com>.

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Events News

Avatech Solutions Presents Free Autodesk Inventor Workshops

8 January 2008

Avatech Solutions, Inc. invites mechanical design professionals to participate in free introductory workshops using real-world design projects. Attendees will move 2D geometry-based objects over to 3D models using the latest Autodesk Inventor software. Avatech will host sessions at their state of the art computer training labs across the country.

“These workshops are a great opportunity for mechanical designers to get hands-on experience with the latest 3D software,” said Scott Hale, Vice President, Manufacturing Solutions at Avatech. “Moving to 3D produces better designs, reduces workloads and improves downstream collaboration. In the near future, working in 3D will be a requisite skill for companies to gain and maintain a competitive advantage.

Attendees will receive a complimentary 30-day trial copy of Autodesk Inventor Professional 2008 which they can test drive in their own work environment. The trial copy includes free tutorials and a workbook, so that participants can continue learning after the introduction.

Dates, Times and Locations

January 11th

8:30 a.m. – 11:30 a.m.

Des Moines, IA; Greensboro, NC; Virginia Beach, VA

1:00 p.m. – 4:00 p.m.

Cedar Rapids, IA; Cleveland, OH; St. Paul, MN

January 18th

8:30 a.m. – 11:30 a.m.

Baltimore, MD; Denver, CO; Houston, TX; Richmond, VA; Toledo, OH

1:00 p.m. – 4:00 p.m.

Charlotte, NC

January 25th

8:30 a.m. – 11:30 a.m.

Raleigh, NC

1:00 p.m. – 4:00 p.m.

Omaha, NE

To Register Visit

<http://www.avat.com/web/3dworkshop>

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AVEVA Announces its Participation at the Gulf Maritime 2008

14 January 2008

AVEVA announces its participation at the Gulf Maritime 2008 at the stand number 48, which will be held in Expo Centre Sharjah, United Arab Emirates from April 21-23, 2008.

Louay Dahmash, Vice President of AVEVA Middle East comments:

"85% of the world's top 20 shipbuilders use AVEVA technology. AVEVA Marine delivers shipbuilders a system that supports universal information access, data security, revision management, global project execution, process definition and application, workflow permission and a workflow audit trail through the most productive and integrated hull and outfitting design applications, combined with an integrated schematic model and 3D Model for all types of ship and offshore floating vessels.

"It is obvious that the Middle East marine industry is growing rapidly, and by exhibiting at one of the region's leading maritime shows it will give local companies a further opportunity to meet with AVEVA, who are committed to supporting growth in the region."

AVEVA has launched AVEVA Marine (12 series), providing an even more efficient design and construction solution that maximizes design and shipyard efficiency, supports global project execution, and encapsulates the advantages of a single design database to deliver a robust information management system.

At the show AVEVA will introduce AVEVA Marine (12 series) to the visitors -- visit stand number 48 to see the world's most powerful and comprehensive software environment for the entire marine project lifecycle.

For more information on AVEVA Marine see <http://www.aveva.com/marine>.

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BE Conference Submission Deadlines

January 2008

Bentley invites you and your peers to be part of BE Conference 2008 in Baltimore, Md., May 28 - 30, 2008.

We are currently seeking submissions for both agenda presentations and BE Awards of Excellence. Your organization's involvement in these two programs will help Bentley illustrate the challenge and success in advancing the sustainability of infrastructure.

Deadline: **January 31, 2008.**

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We are seeking presentations that detail your experience in compelling projects where your organization has designed, built or operated infrastructure.

To learn more about the 2008 topics, please visit www.be.org/topics.

[Begin your submission.](#)

Deadline: **February 29, 2008.**

2008 BE Awards call for submissions is NOW OPEN! The 2008 program features exciting enhancements including new categories.

For more information on the 2008 BE Awards program, visit www.be.org/awards

[Begin your submission.](#)

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Call for Papers Opens for CEIViz '08 ExtremeSim Conference

7 January 2008

Computational Engineering International (CEI) announced the call for papers is now open for their ExtremeSim Conference, CEIViz '08; taking place September 23-25, 2008 at the Radisson Lord Plaza Hotel in Baltimore, Maryland. Those interested in speaking are invited to submit to the call for papers and present their work at the 2008 conference.

Clinton Stone, managing director of ESTEQ Engineering (Pty) Ltd., spoke at CEIViz '06 on his paper titled, "Visualization of Coupled FEA, CFD & Multi-body Dynamics Simulations using EnSight". Clinton had this to say about his experience at the conference in 2006, "CEIViz '06 allowed me to gain a better understanding into how the world's leading scientific, research and engineering companies are using advanced visualization to push the technology envelope. In recent years, a huge effort has gone into the development of solvers that run huge models on massive HPC resources, but only CEI has understood and tackled the challenge of visualizing these results. CEIViz '06 opened my eyes to a world of technology and value that was previously classified as 'Science Fiction'!"

"CEIViz '08 will be an opportunity for the entire visualization community to share their experiences and perspectives," said Anders Grimsrud, president of CEI. "This call for papers is an opportunity for our community to submit cutting-edge topics that will provide value to all CEIViz '08 attendees."

The CEIViz '08 call for papers closes on Monday, March 31, 2008. For more information on the call for papers, or to make a submission, visit our [website](#).

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GibbsCAM's Next Generation SolidWorks Interoperability to be Demonstrated at SolidWorks World 2008

15 January 2008

Gibbs and Associates announced that they will demonstrate the next generation of GibbsCAM and SolidWorks® interoperability at Booth #327 during the SolidWorks World 2008 Conference. The

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conference is being held from January 20th - 23rd, 2008, at San Diego Convention Center in San Diego, CA. Every year SolidWorks World brings together designers, engineers, managers, and partners to discuss ideas, trends, and the technology shaping the future of mechanical product development. This marks the tenth consecutive year that Gibbs and Associates has participated at SolidWorks World. GibbsCAM is a SolidWorks Certified CAM Product.

Using GibbsCAM's new macro capabilities, the information stored in SolidWorks' design tables can be directly accessed and utilized to automate creating CNC programs. If one or more values in the design table are modified, GibbsCAM can automatically make adjustments to the process and update the corresponding toolpath. This enhanced SolidWorks – GibbsCAM Interoperability approach is very effective for handling family of parts.

“We look forward to showing SolidWorks users just how easy it is to manufacture their parts with [GibbsCAM](#),” states Bill Gibbs, president and founder of Gibbs and Associates. “From job shops, to rapid prototyping environments, to in-house design/manufacturing groups, GibbsCAM provides the best value, best-in-class manufacturing solution for SolidWorks users. Going from model to metal just doesn't get any easier.”

The new capability extends the existing ways GibbsCAM is currently able to work with SolidWorks. The SolidWorks-to-GibbsCAM transfer add-in allows models to be directly transferred with a single menu selection within a SolidWorks session to GibbsCAM for NC programming. GibbsCAM can also directly read native SolidWorks part or assembly files, including imported data, with the ability to select between various configurations. With these seamless capabilities, SolidWorks designs can be operated on without fear of losing valuable geometric information. And GibbsCAM's associativity accommodates design revisions, an everyday occurrence in the design/manufacturing process.

For more information about the SolidWorks World conference, go to <http://www.SolidWorks.com/pages/swworld08>.



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Industry Leaders Keynote at IEC's DesignCon 2008 in Silicon Valley Next Month

17 January 2008

The International Engineering Consortium's (IEC) DesignCon 2008 conference and exhibition will spotlight keynote addresses by Synopsys Solutions Group Vice President and General Manager Joachim Kunkel; senior vice president of research and development at Altera, Misha Burich; and TSMC North America President Rick Cassidy. The keynoters will lead more than 300 experts in the world-class educational program next month at the Santa Clara Convention Center.

With thousands of industry professionals expected to gather next month at DesignCon 2008, the keynoters will address the industry with their latest thoughts on compliance and considerations for selecting the right IP; programmable solutions and its continued evolution; and advanced solutions to current design challenges.

Monday's keynote will provide the questions to ask and the guidelines and tools necessary to navigate around the potential challenges in selecting the right IP — decisions that can significantly impact the SoC developer.

“DesignCon is an important venue for engineering professionals who wish to explore solutions to the industry's most pressing design challenges. One of these challenges is delivering complex systems-on-

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chip on time and within budget, and one way to achieve this is with proven silicon IP,” said Mr. Kunkel. “I look forward to providing DesignCon attendees with practical information they can use to select the right IP for their needs, a decision that can mean the difference between making or missing a critical market window.”

In the Tuesday Keynote, Dr. Burich will describe current and future promising technologies including the spectrum from fine-grained to coarse-grained multi-cores and rapidly customizable ASSP solutions.

“DesignCon offers a unique setting for engineers to highlight problems and discuss solutions to some of the most critical challenges impacting the design and development of semiconductors today,” said Dr. Burich. “As technology leaders in the programmable logic market, we see great value in participating in DesignCon and sharing ideas with the design engineering community. It’s an exciting time to be part of the semiconductor industry and I am honored by the opportunity to deliver a keynote presentation where I can share with the audience a vision of things to come in the electronics industry.”

The final keynote address will be given by Mr. Cassidy on Wednesday.

Mr. Kunkel, Dr. Burich and Mr. Cassidy will lead more than 300 experts in more than 120 educational sessions next month at DesignCon 2008.

In addition, a cutting-edge exhibition will complement the educational program at DesignCon 2008 with 135 industry-leading companies at the Santa Clara Convention Center in Santa Clara, CA.

Visit www.designcon.com/2008/ for full information or contact Lisa Ann Reyes at lreyes@iec.org or +1-312-559-3325.

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Robotic Car Developer Chris Urmson of Carnegie Mellon to Keynote at Magma’s MUSIC Users Conference

14 January 2008

Magma® Design Automation, Inc. announced that one of the leading figures in robot navigation will deliver the keynote address at next month’s MUSIC (Magma Users Summit on Integrated Circuits), Magma’s users conference. Chris Urmson is director of technology for Carnegie Mellon University’s Tartan Racing and will appear at MUSIC Feb. 28 to discuss “Boss,” the autonomous vehicle his team developed. Boss was demonstrated at last week’s Consumer Electronics Show in Las Vegas and won the \$2 million 2007 DARPA Challenge.

“Boss is the result of a year and a half of focused effort by a dedicated team,” Urmson said. “Speaking at MUSIC is an opportunity for me to share some insight about their work with designers who understand what it’s like to have to develop something great when you can only imagine it.” Urmson’s keynote address is expected to include details of the DARPA Urban Challenge, describe Boss’ overall system architecture and highlight the vehicle’s many component technologies. Boss is a Chevy Tahoe with more than 300,000 lines of code, capable of autonomously navigating in town and in traffic. It is equipped with more than a dozen lasers, cameras and radar systems to view the world. It was demonstrated on NBC’s “Today” show at CES last week – to view “Today” show personality Al Roker riding in Boss go online at www.msnbc.msn.com/id/21134540/vp/22537113#22537113.

“The use of semiconductors to improve safety, entertainment, navigation and driving automation in automotive applications is rapidly increasing,” said Rajeev Madhavan, chairman and CEO of Magma

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Design Automation. "I am sure Dr. Urmson's discussion of the challenges and solutions in building such an extremely complex automobile will be fascinating to the Magma user community, which is very familiar with building exciting, leading-edge applications."

Urmson will deliver his MUSIC keynote Feb. 28. To register or submit a paper for the conference visit Magma online at <http://www.magma-da.com/MUSIC.html>.

DARPA (the Defense Advanced Research Projects Agency) designed the Urban Challenge to develop autonomous driving skills for city streets, eventually leading to cars that drive themselves. The race required automated vehicles to travel 60 miles of streets in a mock urban setting. To succeed, vehicles must drive completely on their own – without drivers or remote control. Cars must stay in their lanes, negotiate intersections, drive in traffic and follow rules of the road – with only computers at the wheel.

"Boss is a great example of how pushing technology can improve our lives," Urmson said. "Human payoffs from this technology include improved safety and an enhanced driving experience."

Urmson was previously a robotics research scientist with SAIC and an adjunct faculty member of the Robotics Institute at Carnegie Mellon. He developed several robotic navigation architectures and software systems currently in use by Carnegie Mellon University, NASA JPL and NASA Ames. He has made significant contributions to robot development with an emphasis on software development and system integration. He earned a Ph.D. from Carnegie Mellon and a B.Sc. in Computer Engineering from the University of Manitoba. Urmson has earned a variety of corporate and academic awards, including being named a Siebel Scholar, and receiving technology innovation awards from Boeing Phantom Works and SAIC.

About MUSIC

MUSIC – Magma Users Summit on Integrated Circuits – provides a forum for Magma users to exchange ideas, discuss common problems and explore solutions related to the design and manufacturing of integrated circuits, as well as offering users an opportunity to meet with Magma staff and product experts. The MUSIC program covers the key elements of semiconductor design, from system-level design to tapeout. For more information on MUSIC visit Magma online at <http://www.magma-da.com/MUSIC.html>.

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SolidCAM to Exhibit its Latest Version at SolidWorks World 2008

18 January 2008

SolidCAM announced it will exhibit at SolidWorks World 2008, one of the world's largest annual 3D CAD events. This international user conference and exposition takes place in the San Diego, CA, Convention Center January 20 – 23, 2008.

SolidCAM will demonstrate the new version SolidCAM2008 R12, which is Gold-certified for SolidWorks®2008 at Booth # 632. The single-window user interface and the full associativity between the CAD model and NC tool path guarantee a short learning curve and an efficient data flow from the 3D design model to the machined part. The new version provides a complete manufacturing solution with enhanced user friendliness, more automation features and additional CAM functions.

SolidCAM2008 R12 supplies improvements for all Milling applications, including interactive and automated 2.5D Milling, High-Speed Machining, Indexial and Simultaneous 5-axis Machining. Also, users will benefit from new features for the Mill-Turn, which includes support up to 5-axes (XYZCB)

and back spindle operations.

SolidCAM is also presenting at the Certified Partner Theater on Tuesday, Jan 22nd at 4 p.m. Mr. Bede Kortegast, SolidCAM's VP of sales for North America, will demonstrate the latest innovations in SolidCAM2008 R12.

Today, SolidWorks and [SolidCAM](#) look back to a successful 5-year partnership, which started in the year 2003 with the Gold certification and the Bundle agreement. Emil Somekh, founder and Managing Director of SolidCAM, states: "As a Gold-certified partner of SolidWorks, we have always been committed to single-window integration and full associativity with SolidWorks - in our view the best solution to streamline the entire manufacturing process which results in reduced costs and shorter lead times." He continues: "In the past 5 years, we succeeded together with SolidWorks to win several thousand new customers, which benefited from the combined solution SolidWorks+SolidCAM. In the next years, we will continue to strengthen our leadership in Integrated CAM."

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Financial News

ANSYS to Release Fourth Quarter and Year-to-Date 2007 Earnings February 21, 2008

17 January 2008

ANSYS, Inc. announced that it expects to release its fourth quarter and year-to-date 2007 earnings on Thursday, February 21, 2008. The Company will hold a conference call conducted by James E. Cashman III, President and Chief Executive Officer, and Maria T. Shields, Chief Financial Officer, at 10:30 a.m. Eastern Time to discuss fourth quarter results and future outlook.

CONFERENCE CALL INFORMATION:

What: ANSYS Fourth Quarter and Year-to-Date 2007 Earnings Conference Call

When: 2/21/08 at 10:30 a.m. Eastern Time

Where: <http://www.ansys.com/corporate/investors.asp>

The conference call dial in number is 888-264-8904 (U.S. & CAN) or 913-312-0697 (INT'L)

Passcode: ANSYS (26797)

The call will be recorded with replay at 888-203-1112 (U.S. & CAN) or 719-457-0820 (INT'L)

Passcode: ANSYS (26797)

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Aspen Technology Announces Selected Preliminary Financial Results for Second Quarter Fiscal 2008

17 January 2008

Aspen Technology, Inc. announced selected preliminary financial results for the second quarter of fiscal 2008.

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The Company reported license bookings of approximately \$66 million during the second quarter of fiscal 2008, with license bookings defined as the total net present value of all license contracts signed in the quarter. This represents an increase of approximately 10% compared to license bookings of approximately \$60 million in the second quarter of fiscal 2007.

For the first six months of fiscal 2008, ending December 31, 2007, the Company generated license bookings of approximately \$102 million, representing an increase of over 20% compared to the same time period in fiscal 2007.

The Company ended December 31, 2007 with \$131 million in cash and cash equivalents, which is an increase from the end of the prior quarter primarily due to strong license bookings and continued focus on managing costs and expenses, offset by a previously disclosed \$4 million payment the company elected to make in December to satisfy the remaining balances of a loan agreement. The Company continues to have full access to its installments receivable financing facilities. However, the Company elected to reduce the level of cash proceeds from sales of installments receivable by approximately 30%, or \$20 million, compared to the first six months of fiscal 2007 during a period that license bookings increased by over 20%.

Mark Fusco, Chief Executive Officer of the Company, said, "While the company's finance organization is working diligently to bring the company's financial statements up-to-date, the focus and execution of our customer facing operations remains at a high level. Combined with continued strength in market demand and interest for our aspenONE suite, this has enabled the Company to generate over 20% growth in license bookings on a fiscal year-to-date basis. We continue to be optimistic about the long-term fundamental outlook for the Company based on our industry leading domain expertise, unique suite of aspenONE solutions and solid demand we continue to see in our core markets."

The Company also announced that Deloitte & Touche LLP ("Deloitte"), the Company's independent registered public accounting firm, is declining to stand for re-appointment for the fiscal 2008 audit. There is no disagreement between the Company and Deloitte on any matter of accounting principles or practices, financial statement disclosure, or auditing scope or procedure. AspenTech's Audit Committee has begun the process of selecting a successor independent registered public accounting firm, and it will make an announcement when this process concludes. A Form 8-K relating to this matter has today been filed with the Securities and Exchange Commission.

Deloitte's decision does not impact their engagement to complete the audit of AspenTech's financial statements as of June 30, 2006 and 2007 and for each of the three years in the period ending June 30, 2007. In addition, Deloitte has agreed to be engaged for the review of the Company's interim consolidated financial statements included in its Quarterly Report on Form 10-Q for the quarter ended September 30, 2007. While substantial progress has been made in these efforts, the Company has requested from the Nasdaq Listings Qualification Panel an additional extension to February 8 to file the above financial statements and related reports with the SEC and comply with Nasdaq listing requirements. There can be no assurance that the Nasdaq Listing Qualifications panel will grant the Company's request, and failure to grant the request would likely result in the Company's securities being delisted from the Nasdaq Global Market.

Brad Miller, Chief Financial Officer of the Company, said "We believe we are in the final stages of completing our work on the accounting positions related to income taxes. Once completed, this would bring to close the previously disclosed detailed review of our financial accounting and put the company in a position to become current in its filings."

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Conference Call and Webcast

AspenTech will host a conference call and webcast tomorrow, January 17, 2008, at 8:15 am (Eastern Time) to discuss the company's selected preliminary second quarter fiscal 2008 financial performance and related corporate and financial matters. Interested parties may also listen to a live webcast of the call by logging on to the Investor Relations section of AspenTech's website, <http://www.aspentech.com/corporate/investor.cfm>, and clicking on the "webcast" link. A replay of the call will be archived on AspenTech's website and will also be available via telephone at 800-642-1687 or 706-645-9291, conference ID code 31663186 through January 24, 2008.

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AVEVA Group Interim Management Statement

18 January 2008

AVEVA Group plc, announced the following Interim Management Statement, which has been released ahead of schedule.

AVEVA has continued to make excellent progress since 30 September, with a particularly strong end to the third quarter. The major industries in which we operate continue to see high levels of demand. The Board now believes that results for the year ending 31 March 2008 will be significantly ahead of its expectations.

We have seen strong trading across all regions and each of our major markets of Oil and Gas, Marine and Power performed well. The continued growth in these markets, driven by end user demand as well as high energy prices, looks set to remain and provides a strong platform for our continued success.

We have been particularly pleased with our performance in the Asian region where we saw high levels of demand for all of our products. The establishment of the power centre of excellence in China as well as the release of new products has helped us to benefit from the current heightened levels of activity in the region. We have also been pleased with our performance in the Central Eastern and Southern European (CES) region and the establishment of our Russian office last year is now helping us to benefit from numerous Oil and Gas and Power opportunities within this sub-region.

The regions of The Americas and Western EMEA are also seeing some excellent growth due to the expansion of existing customers and new customer wins across all our main markets.

This strong trading has further strengthened our financial position and has allowed us to continue to invest in expanding our software offering, in addition to developing our sales and infrastructure to support the company's future growth.

Richard Longdon, Chief Executive of AVEVA commented: "AVEVA has continued to provide first class products and services to many of the industries' major providers of large capital projects. With demand for these large capital projects both increasing in number and complexity, we believe that AVEVA is ideally positioned to capitalise on the growth both in existing and new market opportunities."

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Centric Software Secures \$14 Million Series B Financing

15 January 2008

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Centric Software announced that it has closed \$14.3 million in series B venture capital financing. The funding round was led by Oak Investment Partners and included Centric's current investors: Masthead Venture Partners and BancBoston Ventures (a Bank of America company). Centric will use the additional financing to expand product development, sales and marketing efforts, and address the growing market opportunity for Product Lifecycle Management (PLM) technology solutions within Apparel, Footwear and Accessories (AFA), and private label sourced products for the wholesale and retail markets.

"We see a significant, untapped market for PLM within apparel and other fast-moving consumer industries," said Bandel Carano, managing partner at Oak Investment Partners. "Centric's innovative Product Intelligence technology is elevating PLM for apparel and other consumer industries to the next level. This unique technology combined with the executive team's domain expertise in PLM will enable the company to meet the specific requirements of these markets and become the de facto PLM standard. Our investment in Centric underscores our confidence in the company's market opportunity and ability to execute."

"Apparel and other fast-moving consumer goods companies are under intense pressure today to bring more products to market faster to meet short market window opportunities, while simultaneously improving margins and improving collaboration with suppliers," said Chris Groves, president and CEO of Centric Software. "Our PLM solutions, powered by our ground-breaking Product Intelligence technology address these industry requirements, while also delivering the added benefits of rapid implementation and end-user adoption, flexibility, and easy integration with legacy systems. This funding highlights our distinct position and will enable us to address the market opportunity in our targeted industries."

[Centric](#) offers unique PLM solutions for AFA and other fast-moving consumer industries. The company's powerful Product Intelligence™ platform assures that everyone involved in the line planning, product design, sourcing and supply chain processes has secure access to the most up-to-date, comprehensive view of their products and product lines, operations execution and business performance. Unmatched data aggregation functionality within Centric's solutions allow all information about the product—visual, data-based, text-based, etc.—to easily be collected in a aggregate repository that is readily accessed by any user without requiring specialized IT skills. Centric's Product Intelligence™ capabilities provide multi-level analysis and web-based dashboards to managers, allowing them to quickly spot trends and exceptions. This combination of capabilities helps product teams collect relevant information for product initiatives, form action plans, execute those plans and assess progress against business goals. Importantly, Centric's application suite can be fully deployed in weeks rather than the months or years typically required to implement traditional PLM solutions.

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Geometric Q3 USD Revenues up 2.4% QoQ, 31.3% YoY

14 January 2008

Geometric Ltd. announced its Q3 results for FY 2007-08.

Financial Highlights

- Revenue from operations for the quarter was Rs 1240 million, a growth of 16.1% over the corresponding quarter of the previous year.

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- Operating profit was Rs. 75.52 million, as compared to Rs. 62.59 for the previous quarter, an increase of 20.7%.
- Other income was lower at Rs 25.98 million as compared to Rs 52.95 million for the previous quarter.
- Profit after tax was Rs 68.07 million as against Rs 90.68 million for the previous quarter.
- Earnings per share (EPS) for the quarter was Rs 1.09.

Business Highlights

Key Wins

- Added 17 new customers and closed new business worth 9 Million USD.
- Made a breakthrough with a contract in the oil and gas upstream segment, viewed to be a major growth area for PLM.
- Won a PLM customization project for a marine equipment manufacturer.
- Signed an agreement to develop a Manufacturing Business Intelligence solution for an MES products company.
- Won and started the execution of a turnkey project for a leading structural engineering software OEM.
- Entered into supply chain engineering services for a forging company to provide consulting in plant design and optimization.

Solutions and Services

- Launched the 'e-Kanban' solution for manufacturing operations.
- Started the go-to-market process for the iPQM offering integrating PLM, MES and ERP systems, with a web seminar launching the solution for the medical devices industry, in collaboration with leading technology companies.
- Expanded offerings for:
 - Visualization for the medical imaging industry
 - Quality Inspection for the metrology industry
 - Design rule management for the shipbuilding industry
 - Accelerated PLM adoption for the fashion industry.

Products

Q3 saw a significant interest by various industrial prospects in the newly launched Design for Manufacturability (DFM) automation product, DFMPPro, which helps reduce iterations between design and manufacturing by almost 60% and cuts down manufacturing costs by almost 15%.

- NestLib®, our fully automatic, true shape nesting technology, and GeomCaliper® an integrated, automated and easy to use thickness checker for models, recorded marked expansion of their customer base.

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- A newer version of CAMWorks®, “CAMWorks 2008”, was released in October. CAMWorks, a SolidWorks Certified Gold CAM product, is an automated intuitive CAM solution designed to maximize machining productivity.
- Other product version releases and upgrades in this period include releases of eDrawings for CATIA V5, GeomCaliper® for CATIA V5 and Pro/ENGINEER, and DFMPPro for SolidWorks.

Partnerships

Signed the Microsoft partner program. This partnership will help us leverage Microsoft’s technology excellence to create a competitive advantage for us, and for our customers, in fulfilling their quality and time-to-market goals using Microsoft Technologies.

Key Appointments

- Rajaramana Macha was appointed Chief Operating Officer of Geometric Ltd.
- Suchendra Kulkarni joined Geometric as Chief Information Officer.

For further details about Geometric, please visit <http://www.geometricglobal.com/>

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IBM Issues Preliminary 2007 Fourth-Quarter and Full-Year Results

14 January 2008

IBM announced fourth-quarter 2007 diluted earnings of \$2.80 per share from continuing operations, an increase of 24 percent, compared with diluted earnings of \$2.26 per share in the fourth quarter of 2006. The company also reported fourth-quarter revenue of \$28.9 billion, an increase of 10 percent as reported, including 6 points of currency benefit, compared with the fourth quarter of 2006.

IBM reported full-year 2007 diluted earnings of \$7.18 per share, including 5 cents per share relating to the sale of the Printing Systems Division in the second quarter, an increase of 18 percent, compared with diluted earnings of \$6.06 per share in 2006. The company also reported full-year revenue of \$98.8 billion, an increase of 8 percent, including 4 points of currency benefit.

IBM’s cash balance at the end of 2007 was more than \$16 billion, with strong free cash flow performance.

“The broad scope of IBM’s global business --- led by strong operational performance in Asia, Europe and emerging countries --- drove these outstanding results,” said Samuel J. Palmisano, IBM chairman, president and chief executive officer.

“IBM is well-positioned as we begin 2008 as a result of our global business reach, solid recurring revenue stream and strong financial position. We are on track to achieve our long-term earnings-per-share roadmap objective in 2010.”

IBM will provide more detailed information about its fourth-quarter and full-year 2007 results during its regularly-scheduled earnings Webcast on January 17.

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CIMdata PLM Industry Summary

IBM Reports 2007 Fourth-Quarter and Full-Year Results

17 January 2008

- Diluted earnings of \$2.80 per share, up 24 percent as reported;
- Total revenues of \$28.9 billion, up 10 percent;
- Global Technology Services revenues up 16 percent; pre-tax income up 26 percent;
- Global Business Services revenues up 17 percent; pre-tax income up 9 percent;
- Services signings of \$15.4 billion; short-term signings up 8 percent;
- Software revenues up 12 percent; pre-tax income up 21 percent;
- 65 percent of revenues from outside the U.S.; E/ME/A revenues up 16 percent; Asia Pacific up 15 percent.

IBM announced fourth-quarter 2007 diluted earnings of \$2.80 per share from continuing operations compared with diluted earnings of \$2.26 per share in the fourth quarter of 2006, an increase of 24 percent as reported. Fourth-quarter income from continuing operations was \$4.0 billion compared with \$3.5 billion in the fourth quarter of 2006, an increase of 14 percent. Total revenues for the fourth quarter of 2007 of \$28.9 billion increased 10 percent (4 percent, adjusting for currency) from the fourth quarter of 2006.

"IBM had a terrific fourth quarter and full year with record revenue, profit and cash. The broad scope of our global business --- led by strong operational performance in Asia, Europe and emerging countries --- as well as continued growth in services and software drove these outstanding results," said Samuel J. Palmisano, IBM chairman, president and chief executive officer. "As we begin 2008, IBM is well-positioned as a result of our global business reach, solid recurring revenue and profit streams, and strong financial position. We are on track to achieve our long-term earnings-per-share roadmap objective in 2010."

From a geographic perspective, the Americas' fourth-quarter revenues were \$11.7 billion, an increase of 5 percent as reported (2 percent, adjusting for currency) from the 2006 period. Revenues from Europe/Middle East/Africa were \$10.8 billion, up 16 percent (6 percent, adjusting for currency). Asia-Pacific revenues increased 15 percent (9 percent, adjusting for currency) to \$5.5 billion. OEM revenues were \$894 million, down 13 percent compared with the 2006 fourth quarter.

Total Global Services revenues grew 17 percent (10 percent, adjusting for currency) and pre-tax income increased 19 percent. Global Technology Services segment revenues increased 16 percent (10 percent, adjusting for currency) to \$10.0 billion, with strong performance in all geographic regions and business sectors. Global Business Services segment revenues, marked by significant growth in core consulting and application management services, increased 17 percent (10 percent, adjusting for currency) to \$4.9 billion. IBM signed services contracts totaling \$15.4 billion, down 13 percent year over year versus a strong fourth-quarter 2006; short-term signings increased 8 percent. The full-year estimated services backlog, including Strategic Outsourcing, Business Transformation Outsourcing, Integrated Technology Services, Global Business Services and Maintenance, was \$118 billion, an increase of \$2 billion from the prior-year period.

Revenues from the Systems and Technology segment totaled \$6.8 billion for the quarter, down 4 percent (8 percent, adjusting for currency). Revenues were flat excluding the year-to-year impact of the Printing Systems Division divestiture in June 2007. Pre-tax income increased 18 percent. Systems and

CIMdata PLM Industry Summary

Technology revenues from the System p UNIX server products increased 9 percent compared with the 2006 period and revenues from System x servers increased 6 percent. Revenues from System z server products decreased 15 percent versus the year-ago period. Total delivery of System z computing power, which is measured in MIPS (millions of instructions per second), decreased 4 percent. Revenues from System i servers increased 2 percent. Revenues from System Storage increased 11 percent and revenues from Microelectronics decreased 15 percent.

Revenues from the Software segment were \$6.3 billion, an increase of 12 percent (6 percent, adjusting for currency) compared with the fourth quarter of 2006; pre-tax income increased 21 percent. Revenues from IBM's middleware products, which primarily include WebSphere, Information Management, Tivoli, Lotus and Rational products, were \$5.0 billion, up 13 percent versus the fourth quarter of 2006. Operating systems revenues of \$664 million increased 3 percent compared with the prior-year quarter.

For the WebSphere family of software products, which facilitate customers' ability to manage a wide variety of business processes using open standards to interconnect applications, data and operating systems, revenues increased 23 percent. Revenues from Information Management software, which enables clients to leverage information on demand, increased 11 percent. Revenues from Tivoli software, infrastructure software that enables clients to centrally manage networks including security and storage capability, increased 19 percent, and revenues from Lotus software, which allows collaborating and messaging by clients in real-time communication and knowledge management, increased 7 percent year over year. Revenues from Rational software, integrated tools to improve the processes of software development, increased 22 percent compared with the year-ago quarter.

Global Financing segment revenues increased 8 percent (2 percent, adjusting for currency) in the fourth quarter to \$668 million.

The company's total gross profit margin was 44.9 percent in the 2007 fourth quarter compared with 44.6 percent in the 2006 period.

Total expense and other income increased 9 percent to \$7.5 billion compared to \$6.9 billion in the prior-year period. Total SG&A expense increased 7 percent to \$6.0 billion. RD&E expense was \$1.6 billion, flat compared with the year-ago period. Intellectual property and custom development income decreased to \$236 million compared with \$241 million a year ago. Other (income) and expense contributed income of \$98 million in the fourth quarter of 2007 versus income of \$150 million in the fourth quarter of 2006. Interest expense increased to \$214 million compared with \$71 million in the prior-year period, primarily due to the increase in debt to finance the company's accelerated share repurchase agreements executed in the second quarter.

IBM's effective tax rate in the fourth-quarter 2007 was 28.0 percent, flat compared with the fourth quarter of 2006.

The weighted-average number of diluted common shares outstanding in the fourth-quarter 2007 was 1.41 billion compared with 1.53 billion shares in the same period of 2006.

Full-Year 2007 Results

- Diluted earnings of \$7.18 per share, up 18 percent as reported;
- Total revenues of \$98.8 billion, up 8 percent;
- Global Technology Services revenues up 12 percent; pre-tax income up 8 percent;
- Global Business Services revenues up 13 percent; pre-tax income up 21 percent;

CIMdata PLM Industry Summary

- Software revenues up 10 percent; pre-tax income up 9 percent.

Income from continuing operations for the year ended December 31, 2007 was \$10.4 billion compared with \$9.4 billion in the year-ago period, an increase of 11 percent. Diluted earnings per share from continuing operations were \$7.18, including a gain from the sale of the Printing Systems Division in the second quarter, an increase of 18 percent, compared with \$6.06 per diluted share in 2006. Revenues from continuing operations for 2007 totaled \$98.8 billion, an increase of 8 percent (4 percent, adjusting for currency), compared with \$91.4 billion in 2006.

From a geographic perspective, the Americas' full-year revenues were \$41.1 billion, an increase of 4 percent as reported (3 percent, adjusting for currency) from the 2006 period. Revenues from Europe/Middle East/Africa were \$34.7 billion, an increase of 14 percent (5 percent, adjusting for currency). Asia-Pacific revenues increased 11 percent (8 percent, adjusting for currency) to \$19.5 billion. OEM revenues were \$3.5 billion, down 10 percent compared with 2006.

Revenues from the Global Technology Services segment totaled \$36.1 billion, an increase of 12 percent (7 percent, adjusting for currency) compared with 2006. Revenues from the Global Business Services segment were \$18.0 billion, up 13 percent (9 percent, adjusting for currency). Systems and Technology segment revenues were \$21.3 billion, a decrease of 3 percent (6 percent, adjusting for currency). Software segment revenues in 2007 totaled \$20.0 billion, an increase of 10 percent (6 percent, adjusting for currency). Global Financing segment revenues totaled \$2.5 billion, an increase of 6 percent (2 percent, adjusting for currency).

For total operations, net income for 2007 was \$10.4 billion, or \$7.18 per diluted share, compared with the 2006 net income of \$9.5 billion, or \$6.11 per diluted share, which included a gain from discontinued operations related to country tax settlements of \$76 million.

IBM ended 2007 with \$16.1 billion of cash on hand and free cash flow of \$12.4 billion, up 1.9 billion year over year. The balance sheet remains strong, and the company is well positioned to take advantage of opportunities.

Share repurchases totaled approximately \$18.8 billion in 2007, including \$12.5 billion executed through accelerated share repurchase agreements in May. The repurchases are part of the \$15 billion authorization for the company's stock repurchase program approved by the IBM board of directors on April 24.

The weighted-average number of diluted common shares outstanding in 2007 was 1.45 billion compared with 1.55 billion shares in 2006. As of December 31, 2007, there were 1.39 billion basic common shares outstanding.

Debt, including Global Financing, totaled \$35.3 billion, compared with \$22.7 billion at year-end 2006. From a management segment view, Global Financing debt increased \$2.2 billion from year-end 2006 to a total of \$24.5 billion, resulting in a debt-to-equity ratio of 7.1 to 1. The non-global financing debt-to-capitalization ratio was 30.0 percent at the end of 2007, which reflects increased financial leverage associated with the accelerated share repurchase agreements.

Presentation of Information in this Press Release

In an effort to provide investors with additional information regarding the company's results as determined by generally accepted accounting principles (GAAP), the company has also disclosed in this press release the following non-GAAP information which management believes provides useful information to investors:

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IBM Results -

- adjusting for revenues relating to the sale of the Printing System Division;
- adjusting for free cash flow;
- adjusting for currency (i.e., at constant currency).

The rationale for management's use of non-GAAP measures is included as part of the supplementary materials presented within the fourth-quarter earnings materials. These materials are available on the IBM investor relations Web site at www.ibm.com/investor and are being included in Attachment II ("Non-GAAP Supplementary Materials") to the Form 8-K that includes this press release and is being submitted today to the SEC.

Conference Call and Webcast

IBM's regular quarterly earnings conference call is scheduled to begin at 4:30 p.m. EST, today. Investors may participate by viewing the Webcast at <http://www.ibm.com/investor/4q07.%20> Presentation charts will be available on the Web site prior to the Webcast.

Financial Results Below (certain amounts may not add due to use of rounded numbers; percentages presented are calculated from the underlying whole-dollar amounts).

INTERNATIONAL BUSINESS MACHINES CORPORATION

COMPARATIVE FINANCIAL RESULTS

(Dollars in millions except per share amounts)

	Three Months Ended December 31,			Twelve Months Ended December 31,		
	2007	2006	Percent Change	2007	2006	Percent Change
REVENUE						
Global Technology						
Services	\$9,997	\$8,590	16.4%	\$36,103	\$32,322	11.7%
Gross margin	30.1%	29.9%		29.9%	29.8%	
Global Business						
Services	4,933	4,223	16.8%	18,041	15,969	13.0%
Gross margin	23.1%	24.7%		23.5%	23.1%	
Systems and Technology						
	6,796	7,070	-3.9%	21,317	21,970	-3.0%
Gross margin	45.7%	41.8%		39.7%	37.7%	
Software						
	6,259	5,607	11.6%	19,982	18,161	10.0%
Gross margin	87.1%	86.5%		85.2%	85.2%	

CIMdata PLM Industry Summary

Global Financing	668	620	7.7%	2,502	2,365	5.8%
Gross margin	45.5%	48.6%		46.7%	50.3%	
Other	212	147	44.8%	842	637	32.1%
Gross margin	-15.8%	-6.9%		4.4%	5.7%	
TOTAL REVENUE	28,866	26,257	9.9%	98,786	91,424	8.1%
GROSS PROFIT	12,970	11,701	10.8%	41,729	38,295	9.0%
Gross margin	44.9%	44.6%		42.2%	41.9%	
EXPENSE AND OTHER INCOME						
S,G&A	6,016	5,620	7.0%	22,060	20,259	8.9%
% of revenue	20.8%	21.4%		22.3%	22.2%	
R,D&E	1,586	1,587	-0.1%	6,153	6,107	0.8%
% of revenue	5.5%	6.0%		6.2%	6.7%	
Intellectual property and custom development income	(236)	(241)	-1.7%	(958)	(900)	6.4%
Other (income) and expense	(98)	(150)	34.5%	(626)	(766)	18.3%
Interest expense	214	71	203.6%	611	278	119.6%
TOTAL EXPENSE AND OTHER INCOME	7,481	6,887	8.6%	27,240	24,978	9.1%
% of revenue	25.9%	26.2%		27.6%	27.3%	
INCOME FROM CONTINUING OPERATIONS BEFORE INCOME TAXES	5,489	4,814	14.0%	14,489	13,317	8.8%
Pre-tax margin	19.0%	18.3%		14.7%	14.6%	

CIMdata PLM Industry Summary

Provision for income taxes	1,537	1,350	13.9%	4,071	3,901	4.4%
Effective tax rate	28.0%	28.0%		28.1%	29.3%	
INCOME FROM CONTINUING OPERATIONS						
	3,951	3,464	14.1%	10,418	9,416	10.6%
Net margin	13.7%	13.2%		10.5%	10.3%	
DISCONTINUED OPERATIONS						
Income/(loss) from discontinued operations	1	76		(0)	76	
NET INCOME	\$3,952	\$3,541	11.6%	\$10,418	\$9,492	9.7%
EARNINGS/(LOSS)PER SHARE OF COMMON STOCK:						
ASSUMING DILUTION						
CONTINUING OPERATIONS						
	\$2.80	\$2.26	23.9%	\$7.18	\$6.06	18.5%
DISCONTINUED OPERATIONS						
	0.00	0.05		(0.00)	0.05	
TOTAL	\$2.80	\$2.31	21.2%	\$7.18	\$6.11	17.5%
BASIC						
CONTINUING OPERATIONS						
	\$2.85	\$2.30	23.9%	\$7.32	\$6.15	19.0%
DISCONTINUED OPERATIONS						
	0.00	0.05		(0.00)	0.05	
TOTAL	\$2.86	\$2.35	21.7%	\$7.32	\$6.20	18.1%
WEIGHTED-AVERAGE NUMBER COMMON SHARES OUTSTANDING (M's)						
ASSUMING DILUTION	1,412.9	1,532.5		1,450.	1,553.	

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			6	5
BASIC	1,384.1	1,507.3	1,423.	1,530.
			0	8

INTERNATIONAL BUSINESS MACHINES CORPORATION

CONSOLIDATED STATEMENT OF FINANCIAL POSITION

	At	At	
(Dollars in millions)	December 31,	December 31,	Percent
	2007	2006	Change

ASSETS

Cash, cash equivalents, and marketable securities	\$16,146	\$10,657	51.5%
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Receivables - net, inventories, prepaid expenses	37,031	34,003	8.9%
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Plant, rental machines, and other property - net	15,081	14,440	4.4%
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Investments and other assets	52,172	44,134	18.2%
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TOTAL ASSETS	\$120,431	\$103,234	16.7%
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LIABILITIES AND STOCKHOLDERS'

EQUITY

Short-term debt	\$15,735	\$8,902	76.8%
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Long-term debt	19,539	13,780	41.8%
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Total debt	35,274	22,682	55.5%
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CIMdata PLM Industry Summary

Accounts payable, taxes, and accruals	32,076	31,189	2.8%
Other liabilities	24,612	20,857	18.0%
TOTAL LIABILITIES	91,962	74,728	23.1%

STOCKHOLDERS' EQUITY	28,470	28,506	-0.1%
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TOTAL LIABILITIES AND

STOCKHOLDERS' EQUITY	\$120,431	\$103,234	16.7%
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INTERNATIONAL BUSINESS MACHINES CORPORATION
SEGMENT DATA

FOURTH QUARTER 2007

(Dollars in millions)	----- External	Revenue Internal	----- Total	Pre-tax Income (Loss) From Continuing Operations	Pre-tax Margin
SEGMENTS					
Global Technology Services	\$9,997	\$393	\$10,390	\$1,061	10.2%
Y-T-Y Change	16.4%	-9.6%	15.1%	25.8%	
Global Business Services	4,933	287	5,220	588	11.3%
Y-T-Y Change	16.8%	-17.8%	14.2%	9.2%	
Systems and Technology	6,796	240	7,036	1,364	19.4%
Y-T-Y Change	-3.9%	-33.6%	-5.3%	17.8%	
Software	6,259	712	6,971	2,433	34.9%
Y-T-Y Change	11.6%	12.7%	11.7%	20.8%	
Global Financing	668	445	1,113	341	30.7%
Y-T-Y Change	7.7%	-8.8%	0.4%	-11.8%	
TOTAL REPORTABLE SEGMENTS	28,654	2,077	30,731	5,787	18.8%
Y-T-Y Change	9.7%	-8.3%	8.3%	17.1%	
Eliminations / Other	212	(2,077)	(1,865)	(298)	
TOTAL IBM CONSOLIDATED	\$28,866	\$0	\$28,866	\$5,489	19.0%

CIMdata PLM Industry Summary

Software	19,982	2,416	22,398	6,002	26.8%
Y-T-Y Change	10.0%	7.5%	9.7%	9.3%	
Global Financing	2,502	1,482	3,984	1,386	34.8%
Y-T-Y Change	5.8%	-3.0%	2.4%	-4.7%	
TOTAL REPORTABLE SEGMENTS	97,944	7,726	105,670	15,163	14.3%
Y-T-Y Change	7.9%	-4.4%	6.9%	10.8%	
Eliminations / Other	842	(7,726)	(6,884)	(674)	
TOTAL IBM CONSOLIDATED	\$98,786	\$0	\$98,786	\$14,489	14.7%
Y-T-Y Change	8.1%		8.1%	8.8%	

TWELVE MONTHS 2006

(Dollars in millions)	Pre-tax Income (Loss) From				Pre-tax Margin
	External	Revenue Internal	Total	Continuing Operations	
SEGMENTS					
Global Technology Services	\$32,322	\$1,763	\$34,086	\$3,288	9.6%
Global Business Services	15,969	1,373	17,341	1,706	9.8%
Systems and Technology	21,970	1,168	23,138	1,739	7.5%
Software	18,161	2,249	20,409	5,493	26.9%
Global Financing	2,365	1,527	3,892	1,455	37.4%
TOTAL REPORTABLE SEGMENTS	90,787	8,080	98,867	13,682	13.8%
Eliminations / Other	637	(8,080)	(7,443)	(365)	
TOTAL IBM CONSOLIDATED	\$91,424	\$0	\$91,424	\$13,317	14.6%

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SAP Announces 2007 Preliminary Results

14 January 2008

SAP AG announced that after a preliminary review of its 2007 fourth quarter results, it expects fourth quarter software and software related service revenues(1) to be approximately 2.48 billion euro (2006: 2.20 billion euro), representing an increase of around 13% (around 17% at constant currencies(2)) compared to the fourth quarter of 2006. Full-year 2007 software and software related service

CIMdata PLM Industry Summary

revenues(1) are expected to be approximately 7.44 billion euro (2006: 6.61 billion euro), representing an increase of around 13% (around 17% at constant currencies(2)) compared to the full-year 2006. The Company's full-year software and software related service revenue growth at constant currencies exceeded its previously published outlook.

SAP turned in another year of very strong share gains. Based on 2007 preliminary software and software related service revenues on a rolling four quarter basis, SAP's worldwide share of Core Enterprise Applications vendors(3), which account for approximately \$36.7 billion in software and software related service revenues as defined by the Company based on industry analyst research, is expected to be around 28.5% for the four quarter period ended December 31, 2007 compared to 27.0% for the four quarter period ended September 30, 2007, and 24.5% for the four quarter period ended December 31, 2006, representing a year-over-year share gain of 4.0 percentage points.

The strong performance in the fourth quarter represents the 16th consecutive quarter of double digit growth in software and software related service revenues at constant currencies(2). It resulted from a well-balanced contribution from all regions and solid performances from SAP's traditional as well as its focus industries.

Fourth quarter 2007 software revenues(1) are expected to be approximately 1.41 billion euro (2006: 1.24 billion euro), representing an increase of around 14% (around 18% at constant currencies(2)) compared to the fourth quarter of 2006. Full-year 2007 software revenues(1) are expected to be approximately 3.40 billion euro (2006: 3.00 billion euro), representing an increase of around 13% (around 18% at constant currencies(2)) compared to the full-year 2006. This represents the strongest constant currency increase in software revenue since 2000.

Total revenues(1) for the fourth quarter of 2007 are expected to be approximately 3.25 billion euro (2006: 2.95 billion euro), which is an increase of around 10% (around 14% at constant currencies(2)) compared to the fourth quarter of 2006. Total revenues(1) for the full-year 2007 are expected to be approximately 10.26 billion euro (2006: 9.40 billion euro), which is an increase of around 9% (around 13% at constant currencies(2)) compared to the full-year 2006.

Despite negative currency effects of approximately 30 basis points, SAP expects its full-year 2007 operating margin to be around 26.5% (2006: 27.3%) which is in the middle of the previously published outlook range. The 2007 operating margin was mainly impacted by accelerated investments to build a business around the new SAP Business ByDesign solution to address new untapped segments in the midmarket as announced by the Company at the beginning of the year. Excluding these investments, SAP's operating margin for 2007 would have been approximately 120 basis points higher. This result demonstrates the underlying margin strength of SAP's established business.

SAP will provide further details of its 2007 preliminary results and outlook for the full-year 2008 on January 30th.

Regional Performance

In the Americas region, software and software related service revenues(1) for the fourth quarter of 2007 are expected to be approximately 0.78 billion euro, which represents an increase of around 7% (around 16% at constant currencies(2)). For the full-year of 2007, software and software related service revenues(1) in the Americas region are expected to be approximately 2.50 billion euro, which is an increase of around 9% (around 18% at constant currencies(2)).

In the EMEA region, software and software related service revenues(1) for the fourth quarter of 2007

CIMdata PLM Industry Summary

are expected to be approximately 1.40 billion euro, which represents an increase of around 13% (around 14% at constant currencies(2)). For the full-year of 2007, software and software related service revenues(1) in the EMEA region are expected to be approximately 3.98 billion euro, which is an increase of around 13% (around 14% at constant currencies(2)).

In the Asia Pacific Japan region, software and software related service revenues(1) for the fourth quarter of 2007 are expected to be approximately 0.30 billion euro, which represents an increase of around 27% (around 32% at constant currencies(2)). For the full-year of 2007, software and software related service revenues(1) in the Asia Pacific Japan region are expected to be approximately 0.96 billion euro, which is an increase of around 19% (around 24% at constant currencies(2)).

Footnotes

1) Under US GAAP SAP is required to present its results of discontinued operations (TomorrowNow) separately from its results from continuing operations. The preliminary figures contained in this release include results of both continuing and discontinued operations as a single line item. Separate presentation will be included in SAP's release on January 30. Software and software related service as well as total revenues (for the fourth quarter and the full year 2007) in the aggregate and per region are not expected to decrease (by more than €15 million) after excluding discontinued operations. SAP's operating margin for 2007 is expected to be higher by 0.3 percentage points (2006: lower by 0.1 percentage points) than reported in this press release after separation of discontinued operations.

2) Non-GAAP Measures

This press release may disclose certain financial measures, such as constant currency period-over-period changes, in revenue and operating income (as well as those described in footnote 1 above), that are not prepared in accordance with U.S. GAAP and are therefore considered non-GAAP measures. Our non-GAAP measures may not correspond to non-GAAP measures that other companies report. The non-GAAP measures that we report should be considered as additional to, and not as substitutes for or superior to, revenue, operating income, cash flows, or other measures of financial performance prepared in accordance with U.S. GAAP. Our non-GAAP measures are reconciled to the nearest U.S. GAAP measure in this press release.

CONSTANT CURRENCY PERIOD-OVER-PERIOD CHANGES

We believe it is important for investors to have information that provides insight into our sales growth. Revenue measures determined under U.S. GAAP provide information that is useful in this regard. However, both growth in sales volume and currency effects impact period-over-period changes in sales revenue. We do not sell standardized units of products and services, so we cannot provide relevant information on sales volume growth by providing data on the growth in product and service units sold. To provide additional information that may be useful to investors in breaking down and evaluating sales volume growth, we present information about our revenue growth and various values and components relating to operating income that are adjusted for foreign currency effects. We calculate constant currency year-over-year changes in revenue and operating income by translating foreign currencies using the average exchange rates from the previous (comparator) year instead of the report year.

Constant currency period-over-period changes should be considered in addition to, and not as a substitute for or superior to, changes in revenues, expenses, income, or other measures of financial performance prepared in accordance with U.S. GAAP. We believe that data on constant currency period-over-period changes have limitations, particularly as the currency effects that are eliminated constitute a significant element of our revenues and expenses and may severely impact our performance.

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We therefore limit our use of constant currency period-over-period changes to the analysis of changes in volume as one element of the full change in a financial measure. We do not evaluate our growth and performance without considering both constant currency period-over-period changes on the one hand and changes in revenues, expenses, income, or other measures of financial performance prepared in accordance with U.S. GAAP on the other. We caution the readers of this press release to follow a similar approach by considering data on constant currency period-over-period changes only in addition to, and not as a substitute for or superior to, changes in revenues, expenses, income, or other measures of financial performance prepared in accordance with U.S. GAAP.

3) Core Enterprise Applications Vendor Share

Beginning in the first quarter of 2007, the Company began using software and software related service revenues for defining Core Enterprise Application Vendor Share because the Company believes that this is the most important indicator for vendor share oriented analysis with the realignment of its income statement structure. Prior to the first quarter of 2007, the Company had been using software revenues for defining Core Enterprise Application Vendor Share.

The Company provides share data based on the vendors of Core Enterprise Applications solutions, which account for approximately \$36.7 billion in software and software related service revenues as defined by the Company based on industry analyst research. For 2007, industry analysts project approximately 7% year-on-year growth for core Enterprise Applications vendors. For its quarterly share calculation, SAP assumes that this approximate 7% growth will not be linear throughout the year. Instead, quarterly adjustments are made based on the financial performance of a sub set (approximately 25) of Core Enterprise Application vendors.

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Valor Files Registration Statement with the SEC for Proposed Public Offering of its Ordinary Shares in the United States

13 January 2008

Valor Computerized Systems Ltd. announced that it has filed a registration statement with the United States Securities and Exchange Commission related to a proposed public offering of its ordinary shares in the United States. Valor expects to offer \$50 million of its ordinary shares and selling shareholders will be offered the opportunity to include up to an additional \$20 million of their ordinary shares in the offering. Valor and/or the selling shareholders will also grant the underwriters an option to acquire an additional \$10.5 million of shares to cover over-allotments, if any. The exact number of shares to be offered and the price range for the offering have not yet been determined. The offering is expected to close during March 2008; however, the timing and terms of the offering are dependent on market conditions, the submission of regulatory filings and approval of Valor's shareholders. Valor's ordinary shares are currently traded on the Prime Standard Segment of the Frankfurt Stock Exchange under the symbol "VCR.

"Thomas Weisel Partners LLC will act as sole book-running manager, Oppenheimer & Co. Inc. will act as co-lead manager, and William Blair & Company, L.L.C. and Collins Stewart LLC will act as co-managers of the offering. The offering will only be made by means of a prospectus. When available, copies of the preliminary prospectus related to the offering may be obtained from Thomas Weisel Partners LLC, Attn: Prospectus Department, One Montgomery Street, Suite 3700, San Francisco, CA 94104, telephone (415) 364-2720.

A registration statement relating to these securities has been filed with the United States Securities and Exchange Commission but has not yet become effective. These securities may not be sold nor may offers to buy be accepted prior to the time the registration statement becomes effective. This press release shall not constitute an offer to sell or a solicitation of an offer to buy ordinary shares of Valor, nor shall there be any sale of these securities in any state or jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state.

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Implementation Investments

Cadence and BMW Motorsport Sign Long-Term Partnership

11 January 2008

Cadence Design Systems, Inc., BMW Motorsport and BMW Sauber AG, announced a comprehensive partnership which includes sponsorship and technology collaboration. Cadence will become an Official Supplier to the BMW Sauber F1 Team and Official Partner of the Formula BMW. BMW Motorsport and the BMW Sauber F1 Team will deploy technology from Cadence® to develop the next generation of leading-edge F1 racing cars.

"We are proud to become an Official Supplier to the BMW Sauber F1 Team and we are very excited about this long-term partnership, where we will work closely with both the teams of BMW Sauber F1 and the Formula BMW of BMW Motorsport," said Craig Johnson, corporate vice president of marketing and strategy for Cadence Design Systems.

"Formula 1," added BMW Motorsport Director Prof. Dr. Mario Theissen, "is a high-tech discipline. It demands the control and coordination of hundreds of parameters simultaneously and the precise execution of every step. Cutting-edge technology is a crucial success factor, and BMW has accepted the challenge. We are delighted that a strong partner such as Cadence will collaborate and partner with us."

[Cadence](#) and BMW Motorsport will also join forces and leverage their extensive experience for the development of new advanced design flows and reference methodologies for automotive system development.

"These jointly developed reference methodologies will provide engineers significant benefits as they design the next generation of motorsport technology, which requires the highest performance and superior power management," said Jim Miller, executive vice president of R&D at Cadence. "Using reference methodologies, engineering teams can reduce verification time to gain valuable development time, and improve the overall reliability and predictability of performance of the car."

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CATIA Used to Design Nearly 75 Percent of Vehicles Introduced at 2008 North American International Auto Show

14 January 2008

Dassault Systèmes (DS) announced that CATIA, the company's design authoring solution, was used in the development of nearly 75 percent of the 27 introductory and concept vehicles* launched at the 2008

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North American International Auto Show (NAIAS) taking place in Detroit, January 19 – 27.

In just ten years, the number of new vehicle models has increased by 33 percent. CATIA's new design technologies have grown at a similar pace, allowing designers to focus on innovation, and encouraging creative and exciting designs. This ability to innovate and iterate quickly is critical in making gains in the overall product development process, helping to drive down cost, and improving quality.

Today, all of the world's major automakers use Dassault Systèmes' PLM solutions, comprised of CATIA, DELMIA, ENOVIA and SIMULIA. These solutions enable manufacturers to develop and optimize vehicle design and manufacturing processes in the virtual world to deliver higher quality products in a shorter time, at a reduced cost.

Dassault Systèmes' Vice President for Design Experience Anne Asensio, said, "Our mission is to provide the solutions that enable innovation from design initiation through the entire lifecycle of the product. The fact that so many of the incredible vehicles being introduced at the Auto Show were designed in CATIA validates the integrity of that mission."

The latest release of CATIA empowers powertrain and chassis designers with the debut of breakthrough auto-draft capabilities, as well as introducing end-to-end industry process coverage for composite design to manufacturing, electrical harness creation and documentation and printed circuit-board design. It also consolidates functional modeling support for the design of complex machined parts, extending this unique approach to more manufacturing processes.

* Based upon NAIAS vehicle introductions announced in January 7, 2008 Automotive News.

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Delcam CAD/CAM Gives Oscor Prototype to Production in Days

14 January 2008

Delcam's CAD/CAM software is the key for Oscor Inc.'s rapid introduction of its minute medical components. "We do a lot of R&D and constantly come up with new products," said Ed Smith, chief of manufacturing engineering. "We often must be able to go from prototype to production in a matter of days. One of the ways we are able to do this is to produce all our tooling in-house. This gives us control over the development and helps us achieve very fast turnaround on every tool."

Oscor Inc. designs, develops, manufactures and markets a range of highly-specialised lead systems for pacemakers and a variety of other medical applications. Most are high-volume, high-accuracy components. According to Mr. Smith, "On our higher-volume parts, we produce in the range of 100,000 parts per month. Typical tolerances are .0002 inches."

Oscor operates a state-of-the-art machine shop, which includes high-speed CNC vertical mills and a Roku Roku turning centre served by a robotic loading system. "We have a total of four high-speed milling machines, two Mori Seiki machines for metalcutting and two others for graphite electrodes," Mr. Smith reported. "All can run at 20,000 rpm. The CNC mills use very small cutters, down to a 0.005" diameter ball milling cutter for the electrodes." The company also runs six Star Swiss-turn machines.

Mr. Smith introduced Delcam CAD/CAM software into Oscor. "We now use PowerSHAPE and PowerMILL for our mills and PartMaker for our Swiss-turn machines. Our Mitsubishi wire EDMs are run by Partmaker Wire. I've always liked Delcam because it is not a limited product, it has a lot of flexibility for the user built into it," he said.

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With PowerSHAPE, Oscor can analyse its mould models for duplicated or missing surfaces, interactively inspect draft angles, and see hard-to-mould areas for the tiny leads. "Ninety per cent of the parts we have to make can be created with solid modelling but, for the other ten per cent, we found that the surface modelling flexibility of PowerSHAPE has been very helpful," Mr. Smith commented.

"PowerMILL even lets us write our own software code to automate our work," Mr. Smith added. "We first create a Visual Basic program and link it back into PowerMILL. For example, this ability has allowed us to automate the robotic handling of electrodes and tell the machine how many, and what kind of, electrodes we want it to produce. Little things like that add up to a lot of time saved."

Another strong point is PowerMILL's range of high-speed machining techniques that help to assure rapid delivery of high-quality mould tools and components for Oscor. According to Mr. Smith, that ability is a big reason customers come to his company. "We can do these micro-moulds faster than most shops could ever hope to," he claimed. "Our specialty is the quick prototype-to-production work in the 30,000 parts per month range and that is where the Delcam software really helps us to be responsive to our customers."

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EMC Documentum Enforces Citizen Safety

14 January 2008

EMC has been chosen as the supplier of the Norwegian legal sector's new information management platform. The delivery also includes search tools from FAST, and the contract partner for the total delivery is TietoEnator.

The delivery, EMC Documentum for up to 12,000 users, is intended to improve the handling of the Norwegian legal sector's enormous amount of sensitive information, and in addition enforce the collaboration between the police department and the judiciary. The police department and the legal department will, with this new solution, be able to focus on their primary tasks, which are to reduce crime, maintain law and order, and secure openness and democracy.

This contract represents a paradigm shift for how we look at solution architecture. In this case, our starting point is project based orientation, with high maintenance costs and information silos spread around the whole organization. Our goal with this project is to standardize on one platform. EMC Documentum can improve our work processes across the function areas, something that can result in far more effective investigations. The EMC and FAST solution will give us a more unified information architecture, where we are in control of the whole value chain, says Lars H. Bøhler, CEO of the Norwegian Police data and materiel service.

EMC Documentum is the leading platform for management of unstructured information (Enterprise Content Management). EMC Documentum is already being used by both police and legal authorities in several other countries, the US Department of Homeland Security, for example, manages fingerprints and photo through EMC Documentum. The Norwegian legal sector will eventually, with this agreement be the largest Documentum user in Norway, and one of the biggest in Europe.

This new information management platform will make the police and legal system better suited for collaboration between the departments and the judiciary. By using this platform, they will have better opportunities to unveil illegal patterns and repeated criminal actions across geographical and organizational borders, says Thomas Heiskel, Manager in TietoEnator.

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With several hundred millions of documents and journals spread over more than 500 servers, in addition to a yearly multimedia production of approximately 1.5 to 2 terabyte sound, 4 to 5 terabyte video and 150 to 200 gigabyte photo, is both management and relocation of information essential to the legal sector.

We are very pleased that the legal sector, with its focus on security, has chosen EMC Documentum. This confirms that our message has been correctly received by the market. Good information management is something that all organizations should take serious. The Norwegian legal sector will increase the level of information sharing with EMC Documentum, and also reduce the information silo between the police districts and the courts, says Erling Kvalheim, Sales Manager Content Management & Archiving in EMC Norway.

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Grand River Group Expedites Catalog Updates and Production with PTC® Arbortext® Dynamic Publishing Software

14 January 2008

PTC and Grand River Group announced that Grand River Group has significantly reduced the publishing time for its parts catalog using PTC's Arbortext Dynamic Publishing Solution. Additionally, using Arbortext, Grand River Group is now able to distribute its parts catalog online. Arbortext allows companies to create reusable components of content, both text and illustrations, and configure and publish the content for specific audiences to a variety of media types in multiple languages. Grand River Group uses Arbortext in conjunction with Windchill as part of the PTC Product Development System (PDS).

Grand River Group has established itself as an industry leader among motorcycle manufacturers in China using PTC's product development system to support its dedication to innovation and high quality standards. As a result of its rapid business expansion, the company anticipated that its parts supply business would become its fastest growing segment. However, it soon became clear that the traditional manual process of editing and publishing parts catalogs couldn't keep up with the updates of products available on the market. The discrepancy between catalog and actual product offerings caused errors in orders, impacting the quality of customer service and slowing the company's ability to take revenue on orders. Consequently, Grand River Group decided to implement a solution that would provide distributors and retailers with the most up-to-date, accurate parts information in the shortest timeframe possible.

Ultimately, [Grand River Group](#) selected Arbortext to significantly reduce the time for creating new content for the catalog while at the same time lowering the cost of publication and distribution. Since Arbortext is part of the PTC Product Development System, Grand River was also able to manage the catalog information with Windchill®. Using the service bill of materials data in Windchill, the Arbortext solution enables the automated publication of the catalog, which can be delivered in both PDF and web-based formats. Additionally, the Parts Supply Department is now able to create three separate parts catalogs for three different vehicle models weekly.

"The PTC PDS is the answer to improving our business by helping us maintain the highest customer service standards," said Deng Xiao Li, Parts Supply Department manager, Grand River Group. With the implementation of Arbortext, customers are able to purchase the parts they ordered with greater efficiency than previously available and can be confident that they will get the components they need.

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Additionally, the [PTC](#) PDS is capable of creating the parts catalog automatically, and publishing catalogs on a regular basis. As a result, the publishing cycle of parts catalogs has been reduced to 10 work days from the original 22 days.

“This is a great example of PTC’s Product Development System providing end-to-end process support from product data to after-market catalogs,” said Martin Walters, director Automotive Market Strategy, PTC. “Our solution’s unique integral approach enables our customers to work faster and more efficiently than with any other solution.”

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Karmann Chooses Dassault Systèmes’ DELMIA for Production Line Planning and Simulation

15 January 2008

Dassault Systèmes ([DS](#)) announced that after a successful pilot, Wilhelm Karmann, an international supplier to the automotive industry, has selected DELMIA Process Engineer and DELMIA Body-in-White to virtually plan, simulate and test its production lines.

“Following comprehensive tests, we selected DELMIA solutions,” states Werner Hennig, Karmann head of engineering processes IT. “We expect this software to reduce costs, shorten ramp-up time, and improve process quality. Additionally, the integration of suppliers will be easier and modifications of production conditions can be implemented more quickly.” Product designers can use the software to develop the best manufacturing alternatives, helping to identify the best practice solutions. The simultaneous engineering capability between planning and manufacturing teams will keep planning errors to a minimum.

DELMIA Process Engineer provides a comprehensive treatment of the relationships between product, process and manufacturing resource data, including plant layout. It allows planners to play out various scenarios to determine, for example, the optimum model mix or number of employees required to accomplish a certain task. This helps to avoid planning mistakes and obtains a precise overview of the required investment costs, production space and manpower.

The scalable DELMIA Body-in-White solution allows for the creation, modification and validation of automotive body-in-white lines and stations prior to production, including the setup of tools, fixtures, stations, and lines, with the associated processes. The user defines the overall process; identifies the fastening points and fixtures; and validates the throughput and capacity to identify potential bottlenecks and modify the line as needed. All processes are verified in a 3D environment.

“We are glad to have such a well-respected company as Karmann join the group of Tier 1 automotive suppliers relying upon our automotive solutions,” says Jorg Scheibel, managing director of DELMIA GMBH and vice president of sales for EMEA North, DELMIA, Dassault Systèmes. “This further demonstrate the value provided to customers by the award-winning DELMIA Body-in-White solution, which was named one of top 20 technologies recognized at the SAE Congress 2007.”

About Karmann

Originated in 1901, Karmann currently employees 7,000 co-workers at six global locations. In the financial year 2006, the company gained a conversion of approximately 1.9 billion EUR. Karmann is a full service vehicle supplier to the automotive manufacturers as well as a developer and producer of niche vehicles such as Cabriolets and of vehicle modules, like bodies and roof systems.

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Motorola iDEN Mobile Devices Expands Its PTC® PDS Implementation to Support Global Product Development

16 January 2008

PTC announced that the iDEN Mobile Devices Division of Motorola, a global communications leader, has expanded the implementation of the PTC Product Development System (PDS) to support its global product development initiatives. The PTC PDS helps increase the productivity of Motorola employees through more efficient project management, collaboration and control of design data across its worldwide sites. A PTC customer since 1991, Motorola has implemented PTC Pro/ENGINEER® for CAD/CAM/CAE design and in 2005 implemented PTC Windchill® for collaborative global product development in the iDEN Mobile Devices Business unit.

[Motorola](#) iDEN Mobile Devices chose the PTC PDS because it provides their worldwide R&D sites and suppliers with access to real time product information in order to easily reuse existing product data in new development projects. Additionally, the PDS allows for design changes to be communicated immediately across designers, suppliers and OEMs and reduces mistakes caused by users working from old data. The PDS has enabled Motorola to improve its product development efficiencies, accelerate new product introductions, and reduce costly tooling redesign cycles times from two weeks to two days.

“Continual product innovation is critical in this dynamic market,” said Julio Castañeda, director of engineering, of Motorola iDEN Mobile Devices. “The integral architecture of the PTC Product Development System enables Motorola to focus on technology and product innovation, which gives us the flexibility to quickly respond to market demands. We look forward to continuing our work with PTC.”

“Driving innovation and meeting intense time to market demands are of the utmost importance to Motorola’s product development strategy,” said Chad Hawkinson, vice president product strategy, electronics, [PTC](#). “The comprehensive capabilities of the PDS enable Motorola to manage their design creation and to share design data across the world creating efficiencies that have become a source of competitive differentiation.”

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MTS Systems Uses SolidWorks to Accelerate Custom Configuration of Testing Equipment

14 January 2008

MTS Systems Corp. is using SolidWorks® 3D CAD software to more efficiently design, configure, and assemble the testing products it develops for customers across a broad range of industries. MTS products include road simulators for automobiles, earthquake simulators for buildings, frame testers for aircraft, wear testers for biomedical devices, and a variety of sensors.

Since adopting SolidWorks software, the \$421 million Eden Prairie, Minn., company has accelerated delivery of highly customized load frames so that customers can execute their testing programs earlier and move their products quickly to market. MTS is using SolidWorks in conjunction with its SAP enterprise resource planning system to create new assembly designs from interchangeable parts, originally designed in SolidWorks, with variable dimensions. “Over time, this system should save our customers many hours in their project schedules,” said Rod Ingalls, engineering services manager at

MTS.

MTS used SolidWorks to develop a high-performance road simulator, the Heavy Truck 329 system, that can apply virtually any force to any combination of wheels on a heavy truck. The simulator tests yaw, camber, and response to braking, jouncing, vertical acceleration, and lateral acceleration. “The goals of this initiative were affordability and accuracy,” Ingalls said. “SolidWorks and its integrated analysis software, COSMOSWorks®, helped us get there, enabling us to efficiently iterate and analyze range of motion, resulting in a superior design.”

MTS has also begun using the SolidWorks eDrawings® e-mail enabled communications tool to give manufacturing personnel information in three dimensions to more quickly and easily assemble custom load frames.

The company began purchasing SolidWorks software in 2005 and has steadily grown its team of SolidWorks users, now at 40 with plans to expand to 55. “After an extensive evaluation two years ago, we chose SolidWorks over alternatives because of its ease of use, streamlined user interface, extensive VAR-based support and training, abundance of experienced users in our area, and general cost-effectiveness of design and analysis tools,” Ingalls said. “Our employees are enthusiastic about the move to SolidWorks and looking forward to taking further advantage of its increased efficiency.”

“MTS Systems is a stellar example of a company using 3D CAD software in innovative ways for competitive advantage,” said Rainer Gawlick, vice president of worldwide marketing for SolidWorks Corporation. “The company’s success in the global marketplace speaks for itself.”

[MTS](#) Systems relies on authorized [SolidWorks](#) reseller [Alignex](#) for ongoing software training, implementation, and support.

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Sequence Design’s Columbus-AMS to Be Deployed by NEC Corporation in Ultra-High-Speed Digital Designs

17 January 2008

Sequence Design’s Columbus-AMS is a mainstay in the analog engineering community, but is also proving to be productive for the high-speed digital designers at [NEC](#) Corporation in Japan.

According to Koji Saga, Department Manager, CAD Engineering Department, Computers Division, NEC Corporation, his group has been using Columbus for inductance extraction in ultra-high-speed digital designs to accurately analyze clock delays.

NEC has taped out several multi-million gate designs using Columbus extraction technology, one of which is their 65nm SX-9 supercomputer processor, capable of reaching an astounding 102.4GFLOPS per single core. The NEC SX-9 is the world’s fastest vector supercomputer.

According to Saga, this device has a clock frequency of more than 1GHz that is delivered to a very large area with minimum clock skew. “When analyzing the clock signal for resistance and capacitance alone, we did not achieve satisfactory silicon correlation,” Saga said. “Working with Sequence, we developed a new clock analysis methodology taking inductance into account as well, significantly improving our results and overall quality of the design.”

“For aggressive, high-speed digital designs like NEC’s, portions of digital designs may also require inductance analysis,” said Rob Mathews, Sequence vice president of extraction products. “This lets the

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designer tighten the clock specs by analyzing the clock tree and including the effects of inductance.”

The Columbus extraction product family is part of Sequence’s Design-for-Power (DFP) solutions lineup which also includes PowerTheater, CoolPower, CoolCheck, and CoolTime. The Sequence DFP flow provides RTL power management feeding physical implementation tuned to accelerate low power design closure. Columbus provides both a foundation for the company’s DFP solutions for SoCs and the industry’s leading RLC parasitic extraction tool for high-performance digital and analog/mixed-signal designs. It also includes power-rail extraction and analysis tools for full-custom and SoC designs.

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Small and Medium Businesses Choose PTC® Pro/ENGINEER® to Increase Global Competitiveness

16 January 2008

PTC announced that Pro/ENGINEER continues to gain momentum as the parametric CAD/CAM/CAE solution of choice for small and medium businesses (SMBs). SMBs continue to adopt Pro/ENGINEER for its ease-of-use and the powerful capabilities that are required to compete in an ever-changing business environment. As a result, the PTC reseller channel continues to experience upward momentum. PTC reported \$195 million in total channel revenue in fiscal 2007, growing 14% from the previous year and representing 21% of total PTC revenue.

“SMBs face the same complex product development challenges as their larger global counterparts. To be successful in this environment, SMBs must make well informed decisions about their technology investments,” said Matthew McGovern, director, vertical market strategy, marketing, PTC. “SMBs must choose solutions that will not only match their current corporate strategy and product development needs but will also grow with them and help them to achieve future strategy and business initiatives. PTC offers flexible pricing and packaging for Pro/ENGINEER to help SMBs focus on their business and product development objectives and not be disrupted by having to change CAD solutions as they grow their businesses.”

Big Dog Motorcycles, based in Wichita, Kansas, is the leading manufacturer of custom, American V-twin motorcycles. Dissatisfied with its previous CAD solution, the company wanted a single, comprehensive, 3D CAD solution that could handle the complexity of its product and support its development of more innovative products in increasingly shorter timeframes. To meet Big Dog Motorcycles’ requirements for complex surfacing capability and the handling of large assemblies, Sequoia Etc, a PTC Platinum reseller, deployed Pro/ENGINEER Interactive Surface Design (ISDX) and Pro/ENGINEER Advanced Assembly (AAX). Using PTC Solutions has enabled Big Dog Motorcycles to decrease design time for the first fuel tank by 70% using Pro/ENGINEER ISDX and promote accurate vehicle-down design working from master models of the entire bike. “With Pro/ENGINEER ISDX, we are able to go through multiple iterations quickly. Pro/ENGINEER AAX automates our CAD model assembly process, reducing errors by allowing all designers to work from the same master model,” said Marvin Bachman, new product development manager, Big Dog. “Pro/ENGINEER is a powerful tool that gives us scalability and enables a top-down design process all in one solution.”

Headquartered in Busan, Korea, Woo Shin Precision Co., Ltd, is a leader in mold design and manufacturing technology for vehicle engines. Woo Shin Precision needed to quickly implement a more efficient and integrated 3D product development solution to speed its mold assembly design process, reduce material costs and increase time to market. The company enlisted the help of Digitek, an authorized PTC reseller, to resolve these challenges. After careful consideration, Woo Shin Precision

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deployed Pro/ENGINEER and Pro/ENGINEER AAX. As a result, Woo Shin Precision has achieved significant benefits including a 78% reduction in design time, a 33% reduction in processing of engineering change orders, and 65% reduction in part development time. The development team has also increased its ability to quickly respond to changes in the design process resulting from increased demand and quantity of engines being developed. "The seamless adoption of Pro/ENGINEER for 3D CAD enabled the product development team to quickly and easily propagate changes and reduce the time to complete engineering change orders (ECOs)," said Song Seung Kun, Senior Manager, Woo Shin Precision Co., Ltd. "As a result, we've streamlined our development process enabling us to bring our innovative designs to market faster which has increased our competitiveness."

Germany-based Deuta offers innovative individual and complete solutions in speed, distance and position measurement and display technologies and is widely recognized for its recording and train safety solutions. To support its continuous growth objectives, Deuta needed to streamline its product development process and improve cross-functional data sharing and communication. Deuta worked with PTC Platinum Partner INNEO and selected Pro/ENGINEER in conjunction with Windchill®, key components of PTC's integral product development system to accomplish these objectives. Windchill PDMLink® allows the simple capture of device variants and the inheritance of attributes, even in conjunction with external service-providers. "Together, Pro/ENGINEER and Windchill provide a complete solution that gives our staff a central source of information which works reliably and cleanly, even with external data. With this solution, we save time and money by being able to produce variants of rail vehicle devices quickly and productively," explains Ralph Jüngels, R&D project manager, Driver's Desk Solutions Group, Deuta. "This solution gives our designers more scope for development, as our staff in production, purchasing, and sales have access to all the Pro/ENGINEER models and drawings. This means we can generate more products in a shorter space of time."

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STARC Adopts Synopsys PrimeTime VX as the Variation-Aware Timing Tool for Its STARCAD-CEL Methodology

14 January 2008

[Synopsys, Inc.](#) announced that the Semiconductor Technology Academic Research Center ([STARC](#)) has incorporated Synopsys' PrimeTime® VX variation-aware, statistical timing signoff solution as part of its 65-nanometer (nm), Synopsys-based STARCAD-CEL methodology. Because the PrimeTime VX solution is built on Synopsys' PrimeTime static timing analysis (STA) tool, STARC was able to validate multiple evolutionary approaches to introducing statistical STA (SSTA) into existing design flows. As a result, mutual STARC and Synopsys customers can now improve their design margins by selecting the PrimeTime-based SSTA signoff method most appropriate for their return-on-investment parameters.

"STARC member companies have a wide range of accuracy, flow and ease-of-adoption requirements when it comes to variation-aware design analysis and signoff," said Nobuyuki Nishiguchi, vice president of the Development Department-1 at STARC. "After an extensive evaluation we selected Synopsys' PrimeTime VX solution for its flexibility, comprehensiveness and evolutionary approach to addressing process variation at geometries of 65 nanometers and below."

Traditional STA enables design analysis at a particular process, voltage and temperature (PVT) corner. To protect against die-to-die and intra-die process variation, design engineers analyze their circuits at a number of extreme PVT corners and add on-chip-variation (OCV) guard-band margins respectively.

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SSTA is a new technology that has the potential to minimize guard-band margins and corner analyses by employing statistical methods. Unlike other SSTA solutions, PrimeTime VX allows users to leverage their existing investment in the trusted PrimeTime STA tool infrastructure, flow and knowledge.

The rich feature set in the PrimeTime and PrimeTime VX solutions enabled STARC to assess three practical techniques for introducing SSTA into existing production design flows using multiple 65-nm-based integrated circuit (IC) designs. The first approach used the PrimeTime tool's location-based margining capability to improve OCV analysis with PVT corners. The second approach used a combination of corner-based STA and SSTA. The third method relied completely on SSTA to analyze all process variations.

By using the PrimeTime VX solution, STARC was able to prove that all three approaches delivered a unique cost-benefit trade-off to the user -- trading off additional library characterization and new flow infrastructure cost for additional accuracy. This flexibility allows companies, regardless of their design style, foundry process and cost requirements, to utilize an optimal SSTA approach to improve design quality and reduce turnaround time. STARC will present its findings in a paper at the Synopsys Booth during the 2008 Electronic Design and Solution Fair on January 24-25, 2008 at the Pacifico Yokohama convention center in Kanagawa, Japan.

"There is a clear need for a practical approach to address process variation at 65 nanometers and below," said Bijan Kiani, vice president of Product Marketing at Synopsys. "As our work with STARC has shown, PrimeTime VX is the only tool that is built on a trusted STA foundation and delivers the key benefits of variation-aware signoff in a flexible, easy to adopt package."



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Thermal Simulation Dramatically Reduces Time to Design Complex Burn-in Test System

January 2008

Antares Advanced Test Technologies used Flomerics' Flotherm thermal simulation software to develop a new burn-in test system for electronic components in one-third the amount of time that would have been required using conventional design methods. The design of the test system was challenging because of the need to maintain low thermal resistance between the heating and cooling systems and the device under test while compensating for variations in device height. "By using thermal simulation to evaluate a considerable number of design alternatives without building prototypes we were able to develop a design that met all of the customer's requirements in only two and a half weeks," said Trevor Moody, Thermal and Mechanical Engineer for Antares, based in Phoenix, Arizona.

An Antares customer that produces semiconductors for military and space applications recently asked Antares to provide a burn-in test system that could simultaneously handle a wide range of products. In order to handle these products, each socket would need to be capable of sensing the temperature of the device, and either heating or cooling the device to keep it at the proper burn-in temperature which may be either above or below ambient temperature. The devices have small variations in their packaging that can cause them to vary up to 0.015 inch in height and also may cause them to tilt at different angles. The mechanical socket assembly must accommodate this range of movement while maintaining mechanical integrity and providing a highly efficient thermal path between the heating and cooling systems and the device.

"We selected Flomerics' Flotherm thermal simulation software because it is easy to use and can simulate nearly any type of test system," Moody said. "Another advantage of Flotherm is that most of

our customers use it for thermal simulation, so they have confidence in our simulation results and we can share models with them.”

Thermal simulation enabled Moody to accurately predict the thermal resistance of each design iteration without having to build and test the prototype. The ability to quickly simulate thermal performance made it possible to evaluate a large number of very different design concepts. Thermal simulation also provides much more comprehensive results than physical testing because it predicts temperature at every point in the design. “I could easily identify thermal blockages by looking for changes in temperature across a relatively small area,” Moody said. “So I was able to concentrate on reducing thermal resistance in these areas.”

Moody was able to complete the most critical portion of the design, creating a mechanism that meets the mechanical and thermal requirements, in only about one-third of the time that would have been required using conventional built-and test design methods. The new test system has already met all performance objectives by enabling the customer to test several types of devices simultaneously at a wide range of temperatures both above and below ambient.

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U.K. Design Consultancy Gets 'Creative' with SolidWorks Software

17 January 2008

U.K. consultancy Creative Design is using SolidWorks® 3D CAD software to accelerate development of everything from solar lanterns to phone kiosks and commuter rail cars. Recently, a device designed in SolidWorks by Creative for Thermo Fisher Scientific has set a standard for compact spectrometers that identify trace elements in liquids for a variety of industries.

Based in Cambridge, Creative is a design consultancy with eight engineers and eight designers who develop products for the consumer, medical, telecommunications, industrial, and transportation industries. It standardized on SolidWorks software to speed design cycles, reduce prototyping time and costs, and better communicate design information with clients.

“Presenting customers with options is critical to success for design consultancies,” said Hans Petersen, a Creative partner. “SolidWorks allows us to work quickly enough so that we can create a broad range of concepts to present to our clients, increasing the chance they’ll see a solution that meets their needs. The software was crucial to the Thermo Fisher Scientific iCAP 6000 spectrometer design.”

One of the many challenges Creative faced was to make the radically smaller spectrometer easy to operate in confined laboratory environments. SolidWorks enabled Petersen and his team to visualize how all of the device’s components would shrink down and fit into a smaller unit, while ensuring against part interference. Reducing design errors on the computer helped the company minimize expensive prototyping and accelerated production.

Creative created the design for the iCAP 6000 in less than six months. “We wouldn’t have even attempted this form in 2D,” said Andrew Russell, senior designer with Creative. “It would have been a square box without any of the ergonomics that make it easy to operate, even in a compact shape.”

The spectrometer won the Instrument Business Outlook 2006 Gold Award based on innovation, functionality, and style. Boeing recently purchased the 500th iCAP 6000 to monitor the contents of chemical tanks used in the production of aluminum wings and other structural components. Other industry accolades for Creative projects include the Minerva Award, IF Design Award, the DBA

Design Effectiveness Award, and the British Design Award.

SolidWorks' flexibility enables Creative to work on client design files sent in other CAD formats to ensure everyone is on the same page. The company also uses SolidWorks eDrawings® e-mail-enabled design communication tool to share 3D models of concepts with clients, which accelerates the approval process.

"Breaking new ground in product design requires the freedom to innovate, even within tight deadlines," said Simon Booker, SolidWorks marketing manager, Europe. "Creative has won a series of industry accolades because it has been able to try different approaches in search of the best solution for its clients."

[Creative](#) relies on authorized SolidWorks reseller [Cadtek](#) for ongoing software training, implementation, and support.

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Industry-Wide News

EDA Consortium Reports 7.2 Percent Industry Revenue Growth in Third Quarter 2007

14 January 2008

The EDA Consortium Market Statistics Service ([MSS](#)) announced that the electronic design automation (EDA) industry revenue for Q3 2007 grew 7.2 percent to \$1,412.1 million, versus \$1,317.2 million in Q3 2006. The four-quarter average growth rate, which compares the most recent four quarters to the same four quarters in the prior year, was 12.3 percent.

"Compared to the same quarter last year, the worldwide EDA and IP industry showed continued growth in Q3 2007, with particular strength in Western Europe, Japan and the Rest-of-World," said Robert Gardner, executive director, EDA Consortium. "Overall revenue increased, as did employment in EDA."

Companies that were tracked employed 27,254 professionals in Q3 2007, up 8.1 percent from the 25,214 employed in Q3 2006.

"The industry shows solid growth again this quarter, especially in Computer Aided Engineering. Although positively impacted by broader participation in terms of reporting companies, the four-quarter moving average reveals double-digit growth in the top product segments," said Aart de Geus, chairman of the EDA Consortium and chairman and CEO of Synopsys, Inc.

Revenue by Product Category

EDA's largest category, Computer Aided Engineering (CAE), generated revenue of \$564.6 million in Q3 2007, representing a 13.4 percent increase over the same period in 2006. The four quarter moving average CAE growth rate was 12.3 percent.

For IC Physical Design & Verification, the next largest category, revenue increased to \$372.8 million in Q3 2007, a 5.4 percent increase compared to Q3 2006. The four quarter moving average growth rate was 11.4 percent for IC Physical Design & Verification.

Semiconductor Intellectual Property (SIP) revenue totaled \$263.2 million in Q3 2007, a 3.5 percent increase over Q3 2006. The four quarter moving average growth rate for SIP was 13.2 percent.

Services revenue was \$83.8 million in Q3 2007, up 11.9 percent from Q3 2006. The four quarter moving

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average growth rate was 11.6 percent for services.

Printed Circuit Board and Multi-Chip Module (PCB & MCM) revenue decreased 6.4 percent over Q3 2006 to \$127.7 million. However, the four quarter moving average growth rate for PCB & MCM was 13.3 percent.

Revenue by Consuming Region

North America, EDA's largest region, purchased \$624.2 million of EDA products and services in Q3 2007. Although this represents a 1.9 percent decrease compared to Q3 2006, the four quarter moving average growth rate was 14.2 percent for North America.

Western Europe revenue was up 13 percent in Q3 2007 compared to Q3 2006, with revenues of \$284.5 million. The four quarter moving average growth for Western Europe was 8.5 percent.

2007 Q3 revenue from Japan increased 14.2 percent compared to Q3 2006 to \$300.9 million. The four quarter moving average increase was 0.6 percent for Japan.

Rest-of-World (ROW) continued to extend previous years of revenue growth by increasing to \$202.4 million, a 22.2 percent increase compared to the same quarter in 2006. The four quarter moving average growth was also strong at 30.6 percent.

About the MSS Report

The EDA Consortium Market Statistics Service reports EDA industry revenue data quarterly and is available by annual subscription. Both public and private companies contribute data to the report. Each quarterly report is published approximately three months after quarter close. MSS report data is segmented as follows: revenue type (product licenses and maintenance, services, and SIP), application (CAE, PCB/MCM Layout, and IC Physical Design and Verification), operating system (UNIX vs. Windows) and region (North America, Western Europe, Japan, and Rest of World), with many subcategories of detail provided. The report also tracks total employment of the reporting companies.

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Product News

Actify Increases Services Partner Network for Digital Design Communication Solutions

16 January 2008

[Actify Inc.](#), with over 500 discrete manufacturing companies as customers and more than 10,000 licenses on active maintenance, announced that the company has expanded its services partner network by entering into an agreement with TCAE GmbH in Germany to support the services demands for Actify's digital design communication product DesignShare. With this partnership, Actify will be able to continue to support its partners and their customers' project implementation needs; allowing customers to share information through their organization, customer, and supply chain easily and securely. Already successful in their respective business segments, the partnership between TCAE GmbH and Actify holds promising results for all involved.

"As more and more companies become global operations, the need for a solution to exchange all types of data becomes integral," said David Opsahl, CEO of Actify Inc. "With many of our worldwide customers standardizing on the Actify solution, we make it a priority to have support and training easily accessible throughout the globe. Our partnership with TCAE GmbH aids us in our initiative to provide

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proven software solutions worldwide.”

Under the terms of the agreement, TCAE GmbH will provide services for Actify’s DesignShare products in Germany. The agreement supports Actify’s objectives to provide best in-class services and software solutions throughout the globe and making them available to all technical and non-technical users around the world, who need access to all data including 3D and 2D CAD data.

“With the manufacturing industry continuing to grow in Germany, the need for efficient and accurate data communication and collaboration is in high demand,” said Mr. Juergen Siefert , Managing Director of TCAE GmbH. “As one of the leading solutions consultancy companies in our region, our goal is to offer the latest and best in-class in digital design communication tools, and by joining Actify’s European partnership, we will be able to satisfy their customers’ and prospects’ needs.”

Based in Scheden, Germany, TCAE GmbH offer over 20 years of expertise as a solutions consultancy company, ranging from PLM implementation, Process and Organizational Analysis, and System integration. Being a Microsoft Partner, TCAE can offer its clients a full range of services for the implementation of the software they purchase including training users. Customers include automotive manufacturer and suppliers, aerospace industry and manufacturing mid-range companies.

Further information on TCAE GmbH can be found at <http://www.tcae.de>

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Ansoft Releases SIwave v3.5.2 for Windows and Red Hat Enterprise Linux

16 January 2008

WHO: Ansoft Corporation
WHAT: SIwave™ v3.5.2 for Microsoft Windows® and Red Hat Enterprise Linux®
WHEN: Immediately
WHERE: Existing customers can download both builds from <http://download.ansoft.com>.

SIwave v3.5.2 is now available for the following platforms:

Microsoft Windows XP Professional, Server 2003 Standard Edition, XP Professional x64 Edition, and Server 2003 Standard x64 Edition

Red Hat Enterprise Linux v3 and v4 32- and 64-bit operating systems

For details, please see the documentation included in the installation for each product. To learn more about Ansoft products for high-performance electronic design, please visit <http://www.ansoft.com>.

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Bentley Releases RAM Structural System Version 11.3

14 January 2008

Bentley’s RAM International Solutions Center has released Version 11.3 of the RAM Structural System – Bentley’s modeling, analysis, and design software for structural engineers involved in the design of building structures of all types. The software provides powerful automated and integrated tools that enhance structural engineers’ productivity, allowing them to be more profitable and to more quickly

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produce economical designs.

RAM Structural System V11.3 includes several new design and usability features, including the following:

The latest steel design specifications – AISC 360-05 as published in the AISC “Steel Construction Manual” 13th Edition – have been implemented. The provisions for both ASD and LRFD have been implemented for the member and joint code checks. The provisions for slender members have also now been implemented. Design of composite and noncomposite beams, columns, baseplates, braces, and beam web openings has been updated.

The requirements of the Direct Analysis Method of AISC 360-05 have been implemented. Options for 2nd-order analysis include a P-delta analysis based on the Geometric Stiffness method, B1 factors, and B2 factors. Story loads for Notional Loads are automatically calculated, and Notional Loads can be generated. Options to use Reduced Stiffness are available. IBC 2006 Load Combinations can be automatically generated.

An RSS Feed on the main screen provides up-to-date announcements of program releases, downloads, seminars, and training events.

Slab edges can now be modeled as free-form slab edges, allowing for the modeling of more complex edges, including the ability to vary the slab edge distance along the length of the beam.

The steel design tables for the U.S. have been updated to reflect the properties of the currently available steel sections as outlined in the “Steel Construction Manual.” The HSS column tables have been refined to give better, more consistent column designs.

The steel design tables for the U.K. have been updated to include the Corus Advance sections. The deck tables have been enhanced to include the Tegral ComFlor decks, with the capability of designing those decks with FibreFlor steel fiber reinforcing. The new Corus and Tegral ComFlor 60 deck has been added.

The baseplate design capabilities of the Steel Column Design module have been enhanced to allow the engineer to specify square baseplates, even though smaller, rectangular baseplates may be adequate; this conforms to common design practice. Also, baseplates of columns supported on concrete columns and walls are now designed, not just those that are supported directly on the footings.

RAM Frame has been enhanced with new usability features, including a Find Member and Find Joint command and a Hide/Show Gravity Members command.

Licensees of Bentley’s RAM International product line who are subscribers to Bentley’s SELECT Program can download the RAM Structural System Version 11.3 free of charge. All other users can contact their Bentley account manager or regional engineer for upgrade information at +1 800 726 7789, or from outside the USA at +1 760 431 3610.

For more information on RAM Structural System, contact Bentley’s RAM International Solutions Center at 2744 Loker Avenue West, Carlsbad, California, 92010 USA; phone: +1 800 726 7789, press 2 for sales (or +1 760 431 3610); fax: +1 760 431 5214; email: structural@bentley.com.

To learn more about Bentley’s comprehensive structural solutions, visit <http://www.BentleysWinningTeam.com>.



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CAD Schroer Announces Latest Release of MEDUSA4® Personal, the FREE 2D/3D Design Automation Suite

16 January 2008

CAD Schroer Group (CSG), the global engineering solutions provider, announced the latest release of its free personal use version of the powerful MEDUSA4 design automation suite, available for Windows® and six different Linux® distributions. The industry-proven 2D/3D CAD solution now also includes a Sheet Metal Design module, and many additional enhancements.

CAD Schroer, long serious about offering engineering solutions that support flexible systems strategies, released the commercial version of MEDUSA4 3.0.1 in Autumn 2007. Now MEDUSA4 Personal users can benefit from additional functionality, and support for the current versions of the following Linux distributions: CentOS, Fedora, Mandriva, RedHat, SuSE and Ubuntu .

“MEDUSA4 Personal offers almost all of the functionality available in our most advanced MEDUSA4 package, including basic 3D (sheet-based modeling), parametrics, and all of MEDUSA4’s drafting power tools, like SMART Edit (“parametrics on demand”), and hidden line removal,” explains MEDUSA4 Product Line Manager Mark Simpson. “Now users can also try our simple and powerful integrated Sheet Metal Design module.”

Enhancements on the drafting side include full TrueType/operating system font and Unicode (multi-language) support, easier top-down and bottom-up design, a new parts balloon tool and parts list table, and even more intelligence in the SMART Edit tool.

MEDUSA4 Personal is expressly restricted to non-commercial use. Small technical differences from the commercial version include a different sheet format, watermarked print output, and the ability to import from, but not export to, DXF/DWG format. The commercial version is highly customisable, while MEDUSA4 Personal is not.

“Since the day of its first release, MEDUSA4 Personal has been met with great enthusiasm. Home users seem to have a keen interest in deploying professional CAD software, and the latest version, with all the additional functionality of the professional 3.0 release, makes it an even more attractive system. As a result we are extremely confident that MEDUSA4 will keep climbing the ranks in terms of significance and value as perceived by designers in the private as well as professional spheres.” says Michael Schroer, Founding Director of CSG, whose success has been built on long-term customer relationships, and a firm “by engineers for engineers” approach to software development.

Download [MEDUSA4 Personal](#),



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Catalog Data Solutions Launches First CAD Model Search Engine for PTC® Pro/ENGINEER® Design Software - "A Model at Every Click"

16 January 2008

Catalog [Data Solutions](#) Inc. (CDS), a provider of online product [selection tools](#) for industrial suppliers, announced the launch of the 3DModelSpace for Pro/ENGINEER. 3DModelSpace is the first CAD Model Search Engine for Pro/ENGINEER linking directly to manufacturers and distributors web pages that offer 3D CAD models.

3DModelSpace is built into Pro/ENGINEER, providing direct access to hundreds of thousands of 3D

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CAD models.

3DModelSpace provides vertical search specific to manufactured parts and deep links directly to appropriate parts on manufacturers and distributors web sites. The 3DModelSpace search engine includes direct links to six Pro/LIBRARYACCESS™ Catalogs complete with CAD downloads for Pro/ENGINEER and Pro/ENGINEER Student Edition. 3DModelSpace for Pro/ENGINEER will continue to grow with new content.

"Engineers search online for manufactured part content more than ever before," said Michael Campbell, senior vice president, Product Management, PTC. "With 3DModelSpace embedded within Pro/ENGINEER, designers can search across manufacturers and go directly to specific parts of interest that have downloadable CAD models. The result is that they can focus on designing and innovating new products instead of spending time and effort modeling parts they don't manufacture."

'Within our long term partnership with PTC we are delighted to make www.3DModelSpace.com available from within Pro/ENGINEER-, said John Major, CEO of Catalog Data Solutions. 'With more than 90% of engineering designers now searching for parts online, the 3DModelSpace site is the perfect place to search and be assured of finding a 3D CAD model.

Founded in 2005 with headquarters in San Jose, CA, Catalog Data Solutions enables industrial suppliers' products to get found, selected and downloaded online. CDS hosted solutions include CDS ModelServer™, CDS Catalog™, CDS Spare Parts Catalog™, CDS Configurator™ and CDS Services to build CAD models and customize the [software](#) to suit your customers' needs. For more information, visit <http://www.catalogdatasolutions.com>.

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CENIT Named Value Added Reseller by Dassault Systèmes

17 January 2008

As of January 2008, CENIT AG is a Value Added Reseller (VAR) for the French software manufacturer Dassault Systèmes. The partner status extends to the Dassault Systèmes products CATIA, ENOVIA, DELMIA, 3DVia Composer, 3D Live and Business Process Accelerators. The expanded partnership encompasses, inter alia, the sale of solutions in the US, Austria, Switzerland, and Germany. From now on CENIT, with its numerous branch offices, as well as the German subsidiary cad scheffler acquired by the Group in late 2007, can fulfill Dassault's requirements across the board at all strategic locations. CENIT Group has also proven itself for years as a successful and top-selling business partner of the French software manufacturer, and continues to sell the PLM solutions CATIA, ENOVIA and DELMIA with great success.

"The new partner status enables CENIT to manage the entire process as a completely independent reseller. This has clear advantages for the end customer. From now on, customers can obtain the entire package, consisting of hardware, the Dassault solutions, additional CENIT software, as well as all support services, directly from one counterpart", says CENIT Board Member Kurt Bengel. As a special service, the VAR customers thus not only get an attractive support package from the PLM specialist, but also cost-free access to an efficient and transparent online license management system. Through this, customers can calculate their investment budgets and current costs in the best possible way.

"With CENIT, we were able to win as a Dassault reseller the most successful PLM business partner of the past 10 years in the German-speaking part of Europe", explains Achim Löhr, Dassault Systèmes

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Director PLM Value Channel Germany, Austria, Switzerland the decision. He adds: “We expect that the expanded partnership and the resulting strengthening of the Dassault Channel will enable us to grow strongly, particularly in the small and medium business sector. With its excellent industry knowledge, the CENIT Group can already list a number of interesting new customers and a stable customer base in this segment. This is of course a decisive advantage when considering the fact that, currently, about 45% of the CATIA customer base consists of businesses with fewer than 10 PLM workspaces. In our experience, this sort of sector competence plays a significant role for customers in choosing their solution partner – along with flexibility and financial vitality, two additional strengths that CENIT has demonstrated over the past years”.

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Dassault Systèmes Announces the Release of SIMULIA SLM for Simulation Lifecycle Management

16 January 2008

Dassault Systèmes ([DS](#)) announced the early availability of SIMULIA SLM, a new product suite from its SIMULIA brand that will have a positive impact on the way that organizations perform and manage their simulation processes.

The use of simulation has become an increasingly vital process in developing innovative products quickly. SIMULIA SLM accelerates the product development lifecycle by providing timely access to the right information through secure storage, search, and retrieval functionality that is specific to simulation processes and data. SIMULIA SLM maximizes the value of company-generated intellectual property (IP) through the capture, re-use, and deployment of simulation best practices. It also provides tools for control and sharing of simulation data for collaborative product development.

“The release of SIMULIA SLM marks a major milestone for SIMULIA as we expand our product portfolio beyond the Abaqus product line,” said Mark Goldstein, CEO, SIMULIA. “By leveraging PLM technology from ENOVIA and simulation expertise from SIMULIA, we have been able to rapidly develop what we believe is an industry-leading solution. SIMULIA SLM will enable our customers to secure their simulation intellectual property and transform it into a valuable and controlled corporate asset.”

Shorter product lifecycles, higher costs, stricter regulations, and the desire to benefit from a greater number of simulations make it clear that companies need an economical and effective solution to manage, share, and secure their simulation assets. To ensure affordable and efficient deployment, SIMULIA SLM provides significant capabilities directly “out of the box” so that users can gain tangible benefits immediately.

The new release delivers capabilities to manage all data associated with simulations, integrate and control the execution of simulation applications, carry out operations such as query and version control, administer access privileges, and perform and review simulations in a distributed, collaborative environment.

SIMULIA SLM also works with simulation authoring applications developed by SIMULIA, Dassault Systèmes, third parties, and customers via a Connectors Framework. This enables a diverse set of simulation solutions to be deployed and executed from within the SIMULIA SLM environment. Connectors are currently available for Abaqus Unified FEA, CATIA, and a variety of third-party applications such as Nastran, HyperMesh, AcuSolve, and STAR-CD. Customers can also easily configure Connectors to their specific applications.

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This early availability release of SIMULIA SLM is being deployed at select customer sites during the early part of 2008 and will be followed by a generally available release in mid-2008. A Simulation Lifecycle Management White Paper and Webinar are available on the SIMULIA [website](#).

For more information, visit: <http://www.simulia.com/products/slm.html>.

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Dassault Systèmes' PLM Marketplace Helps End-Customers Benefit from Extended PLM Solutions Portfolio

15 January 2008

Dassault Systèmes ([DS](#)) announced the global availability of PLM Marketplace. Dassault Systèmes' PLM Marketplace is an online community that connects software vendors and reselling partners today, and will be extended to include other solution partners in the future. Through PLM Marketplace, resellers can easily search and find complementary solutions provided by Dassault Systèmes' partner community, on-demand, in order to efficiently present customers with holistic PLM solutions. For registered members, benefits include shorter sales cycles and increased sales. End-customers gain easy access to extended PLM solutions and can start reaping business benefits sooner.

“We joined PLM Marketplace when it opened and have found it generates business synergy and efficiently facilitates value channel network selling,” says Philippe Blache, executive vice president of Vision numeric. “Type3, our specialized PLM solution, has gotten wider exposure and sales have increased.” Since piloting in Europe in the fall of 2006, PLM Marketplace has gained momentum and is now available for partners in Asia and the Americas. As of December 2007, PLM Marketplace included 113 customized solutions from 22 referenced Software Partners, and 43 reseller companies involving 251 sales people spanning 29 countries. As the subscription rate continues to build momentum, members and end-customers benefit from an even wider scope of extended PLM solutions.

“Helbling is pleased to be a participating Value Added Reseller on PLM Marketplace. The combination of sales and technical support facilitated by PLM Marketplace for specialized solutions plus Dassault Systèmes' channel sales and technical support enables us to help customers take full advantage of PLM solutions and the competitive edge they lend,” says Janos Barko, CEO of Helbling IT Solutions. “In short, we're able to deliver higher value to our existing and future client base.”

“Dassault Systèmes' software partners have developed hundreds of specialized industry-specific software solutions seamlessly working with CATIA, DELMIA, ENOVIA and SIMULIA. In just a few clicks, BPs and VARs can search the PLM Marketplace portfolio for the best client-product matches and deliver on-demand, end-to-end offerings. Dassault Systèmes takes care of the legal framework, allowing partners to start selling immediately,” explains Etienne Droit, Dassault Systèmes' executive vice president of sales and distribution. “This positively impacts the end-customers, allowing them to start implementing PLM solutions quicker and gaining more immediate ROI.” Dassault Systèmes' Software Partners each have their specialty and PLM Marketplace opens this knowledge to even more customers and partners, allowing everyone to step ahead. Customers also benefit from seamless integration, because the add-ons are built directly on top of Dassault Systèmes' PLM platform. For more information on how to connect with partners and benefit from the PLM Marketplace, please visit <http://www.plmmarketplace.com>.

CIMdata PLM Industry Summary

Dassault Systèmes Launches ENOVIA SmarTeam Engineering Express

15 January 2008

Dassault Systèmes ([DS](#)) announced the availability of ENOVIA SmarTeam Engineering Express, an out-of-the-box, scalable and multi-CAD PLM engineering solution, specifically geared for mid-sized companies. ENOVIA SmarTeam Engineering Express deploys best practices for working with Engineering Bill of Materials (E-BOMs) from concept to manufacturing phases of the product lifecycle, enabling mid-sized businesses to significantly accelerate new product launches.

“ENOVIA SmarTeam has provided a system for managing, communicating, and integrating technical and business change. We have processed about 300% more changes with reduced effort, and reduced processing time on Make-to-Order products by 70%,” said Jim Stewart, Engineering Systems Manager of Swagelok, a fluid system component manufacturer based in the United States.

Customers can benefit from accelerated product launches and reduce the duration and volume of engineering changes, resulting in higher productivity and lower costs. With its item/BOM-centric approach and tailorable workflow processes, supporting both mechanical and electronic CAD systems, ENOVIA SmarTeam Engineering Express improves product definition by controlling the product changes and adopting best practices. The offering also enables improved accuracy, data consistency and configuration control resulting in effective and fast reuse of existing data.

ENOVIA SmarTeam Engineering Express is a prepackaged, easy to implement solution, based on ENOVIA SmarTeam's Collaborative Engineering offering. The solution offers mid-sized companies a rapid user ramp-up and low total cost of ownership. Preconfigured yet tailorable, ENOVIA SmarTeam Engineering Express provides customers out-of-the-box PLM functionality that can be extended to the Collaborative Engineering solution according to the customer's growing PLM needs.

“With the addition of SmarTeam Engineering Express to our solution portfolio, we are providing a tremendous advantage for mid-market manufacturers who can achieve a substantially low total cost of ownership,” said, Alex Zeltcer, general manager, ENOVIA SmarTeam, Dassault Systèmes. “This is possible, in part, as our products work in harmony with Microsoft technologies, including .NET so that customers do not need to invest in additional and costly hardware and software.”

Together with the SmarTeam Design Express package, introduced in 2006 and adopted by hundreds of mid-sized companies, ENOVIA SmarTeam now offers, on the same platform, an end-to-end engineering solution — from concept to manufacturing phases — for mid-sized companies, reinforcing Dassault Systèmes' mission to bring the benefits of PLM to companies of any size in any industry worldwide.

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EFD.Pro Engineering Fluid Dynamics Supports PTC® Pro/ENGINEER® Wildfire® 4.0

January 2008

Flomerics Ltd. has announced that EFD.Pro, its fully embedded Computational Fluid Dynamics (CFD) solution for Pro/ENGINEER, will support Pro/ENGINEER Wildfire 4.0. EFD.Pro belongs to a breed of CFD tools which offer comprehensive fluid flow and heat transfer analysis capabilities to non-specialized users. Unlike other CFD programs, EFD.Pro works directly with native Pro/ENGINEER geometry — with no translation or copies - in order to keep pace with on-going design changes.

“EFD.Pro is a very popular mission-critical application among the Pro/ENGINEER user community,” said Roland Feldhinkel, director of product development at Flomerics. “Therefore, we maintain a strong

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working relationship with the development group at PTC to ensure uninterrupted support for our combined users.”

With a common look and feel to that of Pro/ENGINEER, EFD.Pro users are not forced to learn a new environment simply to run the software. This enables engineers to focus on solving their engineering problems instead of ramping up their skills in new software. EFD.Pro sets itself apart from traditional CFD software with seven key technologies making it easier to use, more robust, and more accurate. Another unique capability in EFD.Pro is the ability to examine a solid model in Pro/ENGINEER and automatically detect fluid regions – a time consuming process in traditional CFD software. Lastly, EFD.Pro also offers an integrated interface to Pro/ENGINEER MECHANICA® that enables users to pass pressure and thermal loads for quick, pain free multi-physics analyses. EFD.Pro is used by best-in-class manufacturers to optimize products within the aerospace, automotive, consumer goods, electronics cooling, HVAC, medical device and valve industries.

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hyperMILL® receives 'Certified Gold Product' award from SolidWorks

15 January 2008

The new hyperMILL® V9.7 from OPEN MIND offers CAD integration with SolidWorks®. SolidWorks Corporation, developer of the popular Solidworks CAD product has certified the integration of OPEN MIND's complete solution and has designated hyperMILL® as a 'Certified Gold Product'. This is SolidWorks' highest award based on outstanding integration, quality and interoperability.

To receive the 'Certified Gold Product' award, the partner product must go through a multilevel certification process. The requirements include full integration of the software user interface within SolidWorks® and associative database linking of the geometric data of SolidWorks®. In addition, SolidWorks® reference customers must be able to use the software product effectively. In-house product tests are also conducted at SolidWorks to determine whether its high requirements are fulfilled. OPEN MIND Technologies released hyperMILL® V9.7, including the SolidWorks® integration in October 2007. And now hyperMILL® has successfully completed and passed the certification process.

Integrated process chains for CAD users

"Our CAD-integrated CAM solution hyperMILL® has the advantage of allowing SolidWorks® users to implement integrated process chains on their existing user interface," explains Frank Eckstein, responsible for hyperMILL® in SolidWorks® in the Application Technology division at OPEN MIND. "In our software solution, the CAD and CAM systems both access the same database. A uniform data model is used for the entire process. This helps ensure transparency and accuracy in the production process and prevents errors."

Additional information is available upon request or from our website at <http://www.openmind-tech.com>.

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IBM Innovations to Help Companies Overcome the Challenges of Globalization

14 January 2008

IBM unveiled new software and research innovations aimed at improving the way employees across an organization collaborate in a globally integrated enterprise.

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The challenges of globalization are forcing companies to become more nimble, using an increasingly geographically-dispersed and virtual workforce to remain competitive. In the world of software development, this means 24x7 collaboration with specialized teams around the globe to pick up where another left off. IBM is also examining how virtual worlds can help software development teams break down the barriers caused by globalization.

IBM is announcing it is opening up its development platform based on Web 2.0 technologies for developers to collaborate and contribute to software under development at <http://www.Jazz.net>. Jazz.net is an open, commercial community designed to help companies globally and transparently collaborate on the development of Jazz-based technology.

Previously only available to IBM customers, academics and partners, Jazz.net is now open to the greater software development community. IBM's vision for community-driven development expands the boundaries of how the open source community can impact global software development by not merely creating a vehicle for feedback after products have been developed, but enabling the global community to be a part of IBM's development process from start to finish.

IBM is also announcing IBM Rational Team Concert Express, available later this year, which will help small and mid-sized development teams significantly improve their productivity by enabling real-time collaboration across a geographically dispersed software delivery team.

"IBM is redefining how software development and delivery will be done in the future," said Dr. Danny Sabbah, general manager, Rational Software, IBM. "Open commercial development at Jazz.net is changing the way IBM products are delivered to customers by making the process truly a community effort."

Collaboration to foster greater innovation

Beginning today, the global software development community can collaborate on the development of IBM Rational Team Concert Express, IBM's first offering developed on the Jazz technology platform. IBM Rational Team Concert Express will help small and mid-sized development teams improve their productivity by enabling real-time collaboration across their global software delivery team. IBM will also offer IBM Rational Team Concert Express free of charge to qualified open source projects and to academic institutions for use in accredited course programs or academic research projects.

Currently available at www.Jazz.net, IBM Rational Team Concert Express beta 2 includes Web dashboards to help software project teams see real-time project status data such as the status of work items and project health. IBM Rational Team Concert Express beta 2 allows software development teams to use DB2 and other databases to host the IBM Rational Team Concert repository. IBM Rational Team Concert Express is based on open standard middleware including IBM WebSphere, IBM Lotus Sametime, Apache Tomcat, Apache Derby and Jabber.

IBM Rational Team Concert Express is the first Jazz-infused offering in a new family of development servers being developed by IBM. Over the next several years, most of the IBM Rational portfolio will evolve to incorporate Jazz technology to improve team collaboration and simplify the ability to integrate IBM products and those of our business partners. This will provide both new and existing IBM customers with a flexible on-ramp to the Jazz platform of the future.

"Jazz is a wonderful example of the technical innovation that is occurring on the Eclipse platform," said Mike Milinkovich, executive director of the Eclipse Foundation. "IBM has a well deserved reputation in the Eclipse community for producing great technology and I am sure our community will be very

interested in this new product."

IBM Research examines team collaboration in virtual worlds

IBM understands that developing a workforce that is adaptive to change in a global economy is vital to the growth of a company and to the development of future leaders. As Baby Boomers continue to retire and Generation Y comes of age, new work styles must emerge to motivate and retain employees in the new corporate landscape.

IBM Research is working to solve the digital divide in the workforce with Project Bluegrass, a project that integrates three key factors in motivating Millennials -- collaboration, communication and visualization. Project Bluegrass takes the IBM Jazz technology and creates a virtual-world environment where software developers can work, chat and brainstorm around a virtual water cooler while "seeing" their teammates alongside interactive visual representations of ideas, data from the Web and from Jazz-based sources.

The older workforce possesses huge amounts of professional knowledge and information that needs to be communicated to future generations. While Project Bluegrass provides a workspace full of stimulation with instant messaging, presence awareness and project tasking that appeals to Generation Y, it also provides the ability to integrate these technologies with current IBM technology that Baby Boomers and Generation X are comfortable with.

Today's announcement illustrates the future of work and how IBM operates as a globally integrated enterprise in the 21st century workplace. Global integration has become embedded in IBM's workforce, strategy, leadership and operations -- affecting how the company collaborates across time zones and cultures and locates its operations, functions and leadership anywhere in the world based on the right skills and business environment.

Attendees at IBM's Lotusphere conference in Orlando, Florida from January 20-24, 2008, can view a demonstration of Bluegrass at the IBM Innovation Lab. A virtual demo of Bluegrass is also available on kiosks at IBM CODESTATION (<http://slurl.com/secondlife/IBM%20CODESTATION/124/159/25/>) in Second Life.

For more information on IBM's Jazz project and related research initiatives, visit <http://www.ibm.com/rational/jazz/>.

To register for the Jazz project or download IBM Rational Team Concert, beta 2, visit <http://www.Jazz.net/>.

Members of IBM's developerWorks community of more than six million technical professionals can participate in the community space at www.ibm.com/developerworks/spaces/jazz/.

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LightWork Design Releases LightWorks 7.8

15 January 2008

LightWork Design announced the release of a new version of LightWorks - LightWorks 7.8. The main focus of this release is to improve the accuracy, performance and the ease-of-use of lighting, global illumination, tone mapping and gamma correction making the creation of photorealistic imagery even easier.

Key developments include:

Lighting

As part of our continued customer enhancement program, a new simplified user interface has been introduced for Global Illumination. New controllers make Advanced Lighting easier to use and provide improved usability and performance for both experts and non-experts alike whilst also speeding up integration within customers' applications so that the finished product is more user friendly and dynamic.

Final Gather has been made more intuitive as the speed/quality tradeoff has been improved making this simpler to use. LightWorks now includes both diffuse and specular shaders for Final Gather, to allow a wider range of photorealistic effects to be created. There is also extra flexibility in the way that dome lights can be used with Final Gather, again offering improved speed and ease-of-use.

Shadow map efficiency has been enhanced by fine-tuning shadow generation, thereby both increasing speed and becoming less resource intensive.

Real-time Plus

LightWorks Real-time Plus has been re-engineered to provide users with improved performance as well as greater user control. Also, LightWorks Real-time now includes better support for gamma correction so that real-time renders more closely match software renders in terms of colour.

New Shaders

A lit appearance shader provides glow effects to lights so that they appear lit without actually emitting light. This is particularly applicable in architectural imagery. Other new shaders include a speckled shader, horizon background shader and a lighting environment background shader.

New LightWorks Output features

A PNG driver has been introduced enabling PNG image files to be read and output within LightWorks.

For more information about LightWorks 7.8, go to the latest release page of the LightWork Design [website](#):

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Mentor Graphics and Calypto Design Systems Announce Customer-Proven Electronic System Level Synthesis and Verification Flow Featuring Catapult C Synthesis and SLEC Sequential Equivalence Checker

14 January 2008

[Mentor Graphics Corporation](#) announced the availability of a new electronic system level (ESL) hardware design and verification flow featuring Mentor's Catapult® C Synthesis tool and [Calypto](#) Design Systems' SLEC sequential equivalence checker. Proven during trials at customer sites throughout the world and recently by STARC, the integrated flow is effective at synthesizing high-quality designs from pure ANSI C++ to RTL, and formally verifying that the resulting RTL design is functionally correct. These customer results validate the Mentor/Calypto design flow, and indicate its readiness for broad production usage by companies using ESL methodologies for hardware design.

These two best-in-class design tools offer a superior, integrated solution for ANSI C++ synthesis and

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verification. The Catapult C Synthesis tool enables hardware designers to create optimized RTL descriptions 10-100x faster than manual design methods. Calypto's SLEC comprehensively verifies that RTL designs are functionally equivalent to system-level models without testbenches or assertions. SLEC uses sequential analysis techniques to verify Catapult C's RTL output functionally matches the original ANSI C++ source. The integration of the Catapult C Synthesis tool and SLEC increases designer productivity by providing users with a fast, exhaustive, vector-less design and verification methodology.

"With high-level synthesis tools, it is essential to verify that the high-level C description is functionally the same at the tool's RTL output," said Mr. Haruhisa Kashiwagi, Senior Manager, System Level Design Group, Development-2 of STARC. "During STARC's ASUKA II project, we evaluated the Catapult C Synthesis/SLEC flow from Mentor Graphics and Calypto Design Systems. Using several examples, we have verified that the RTL generated from the Catapult C Synthesis tool has the same functionality as the high-level source code. We were able to accomplish this in a short period of time, and we ascertained a seamless integration between the two tools. We think this is a very valuable flow for companies interested in ESL methods for hardware design."

With this integration, the Catapult C Synthesis tool users can automatically generate RTL from a pure ANSI C++ description, and then create the setup scripts to launch the SLEC verification environment. This allows users to verify equivalence between the pure ANSI C++ and RTL descriptions quickly as well as verify additional design optimizations before handoff for final integrated circuit implementation.

"Customer experience with the SLEC/Catapult C flow confirms that ESL synthesis and verification is ready for mainstream design," said Tom Sandoval, chief executive officer Calypto Design Systems. "STARC's project demonstrates the interoperability and productivity benefits of using an ESL flow for large-scale hardware design."

"For complex designs, system-level synthesis and verification provide efficiencies that reduce design time and increase overall profitability. STARC's recent evaluation has proven that the Mentor/Calypto solution delivers a substantial productivity advantage, giving users relief from the competing forces of increasing design complexity and time-to-market pressure," said Simon Bloch, general manager, Design Creation and Synthesis Division, Mentor Graphics Corp. "We praise STARC for validating our integrated ESL tool flow for the benefit of its member companies."

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Mentor Graphics Nucleus OS Offers a Seamless User Experience for Multimedia Devices

16 January 2008

Mentor Graphics Corporation announced availability of Nucleus® OS with the new Safe File System capability. The software provides virtually 100 percent power-fail resiliency required in highly reliable multimedia devices with resident NOR, NAND and DataFlash flash storage.

"With the usage of flash storage in multimedia and portable devices exploding, users expect their application--be it an MP3 player or a medical monitoring device--to recover gracefully when the battery runs out," said Neil Henderson, general manager, Mentor Graphics Embedded Systems Division. "By incorporating capabilities such as the Safe File System, Mentor's Nucleus OS is steadily evolving into a full-featured and robust platform, delivering value to a broad base of embedded device manufacturers -- from mobile handsets, to consumer electronics, to medical devices."

Traditionally, embedded devices were susceptible to unexpected system interruptions e.g., when a

device's battery ran out, causing a device to lose a sector or become non-operational. The Safe File System feature eliminates file glitches associated with such abrupt system terminations, effectively improving customer experience, reducing the need for field repair and avoiding unnecessary warranty returns.

The basic method of operation of the Nucleus OS Safe File System is relatively simple--a complete new file system must be made available for use before any information is erased. In this way, if the worst happens, the system can be rebuilt either in its pre-write form (as if the write had never started) or with the new modifications included. This is not possible to guarantee with a DOS compatible file system and with many other file systems. While the concept is simple, write and erase times can be relatively long on flash devices. It is extremely important to ensure the number of these operations is minimized. The Nucleus OS Safe File System solution is highly reliable, the system architecture is fast and efficient, and the file system enables fast boot.

Pricing and availability

The royalty free Nucleus OS - Safe File System for flash devices is available immediately. For more information and pricing for Mentor Graphics embedded solutions, please call 1-800-547-3000 or e-mail embedded_info@mentor.com

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PTC Introduces Pro/ENGINEER® Wildfire® 4.0 with New Industry Leading Capabilities to Drive Process Improvements

16 January 2008

PTC announced the availability of Pro/ENGINEER Wildfire 4.0, a major release of its integrated 3D CAD/CAM/CAE software and a key component of the PTC® Product Development System. With this release, PTC expands a most comprehensive parametric solution for product development teams, delivering new capabilities to help customers optimize key global and electromechanical design processes. Pro/ENGINEER Wildfire 4.0 enables customers to create products with faster time-to-market, improved quality and reduced costs.

Pro/ENGINEER Wildfire 4.0 offers powerful new capabilities and usability enhancements that optimize key global design processes and further improve personal and process productivity:

Detailed Design

Innovative new Auto Round™ Technology — Saves valuable time with automated rounding of even the most complex features. A rounding task which took an expert user 20 minutes to complete was accomplished by Auto Round in 40 seconds.

Improved Large Assembly Performance — Automated and optimized assembly file management using simplified representations reduces memory consumption by 40% and model retrieval times by 60%

Enhanced 3D Drawings — Automatically displays dimensions in 3D drawings which increases design information reuse and delivers production ready drawings. Publishes and accesses saved 3D drawing views in PTC ProductView™

Advancements in Surface Editing — Helps optimize designs with new capabilities for directly editing surfaces including multi-resolution editing and smoothing

Faster Surface Removal — Quickly removes round and hole geometry to prepare designs for mold

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making or simplify designs for analysis. Reduces model editing time by up to 50%!

New Pro/ENGINEER Tolerance Analysis Extension Powered by CETOL Technology — This new module quickly analyzes geometric tolerances and variances directly in the CAD model

New Feature Recognition Tool — Quickly converts imported geometries to features in your model

Enhanced Import DataDoctor™ — New data repair capabilities and easy-to-use, modernized user interface dramatically improves the ability to reuse legacy and 3rd party data

Improved Data Exchange — New and upgraded processors allow customers to better leverage other CAD data (including new module Pro/ENGINEER Interface for JT), publish Pro/ENGINEER data in 3D PDFs, and import exact product representations from ProductView

Design Outsourcing

New Pro/ENGINEER Rights Management Extension — This new module persistently and dynamically protects valuable design intellectual property (IP) enabling additional levels of security when collaborating across and beyond the enterprise

Verification and Validation

Easier and Enhanced Simulation — Helps customers analyze designs faster and easier with smart diagnostics, improved meshing, better assembly connectivity management and analysis of results

Manufacturing Tooling and Factory Equipment Design

Improved Usability — Simplifies and automates the transformation of engineering designs into manufacturing processes with an easy to use, powerful process manager for toolpath definition, annotation features, and other key capabilities

Electromechanical Design Enhancements

New Ribbon Cabling — Creates electromechanical designs faster with intelligent, automated capabilities for adding and routing ribbon cables

Faster Design Collaboration — New Pro/ENGINEER ECAD-MCAD Collaboration Extension accelerates electromechanical design with a new interface between MCAD and ECAD designs. Users can automatically identify incremental changes and cross-highlight between MCAD and ECAD board designs

“Pro/ENGINEER Wildfire 4.0 provides numerous enhancements and resolutions to some key product development challenges,” said Frank Menendez, principle engineer, Alcon Research. “We have no doubt that the added functionality and increased flexibility of Pro/ENGINEER Wildfire 4.0, coupled with the improvements we've seen in Windchill® PDMLink® 9.0, will assist us in continuing to improve product development processes at Alcon.”

“The improvements in electromechanical design capabilities will increase productivity at Daktronics,” states Jon Sprang, engineer, Daktronics. “Importing a complex design that used to take over three hours to complete we can now do in about 15 minutes with Pro/ENGINEER Wildfire 4.0. Efficient ECAD-MCAD design collaboration is also an area that we have been struggling with. The new ECAD-MCAD collaboration capabilities will help us address these challenges.”

“The new capabilities in Pro/ENGINEER Wildfire 4.0 focus on strengthening key processes that have the greatest impact on the success of a customer’s global development initiatives,” said James E.

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Heppelmann, executive vice president, software products, and chief product officer, PTC. “This release also underscores PTC’s continued emphasis on quality, usability and responsiveness to customer needs. By constantly evaluating our customers’ needs and the trends impacting the industry, PTC has made a significant investment in new capabilities for Pro/ENGINEER Wildfire 4.0 that will continue to speed new product development in a globally dispersed environment.”

Pro/ENGINEER Wildfire 4.0 Upgrades and Product Availability

Pro/ENGINEER Wildfire 4.0 is scheduled to be available later this month.(a) Pro/ENGINEER active maintenance customers can conveniently download Pro/ENGINEER Wildfire 4.0 or order a CD from the PTC support site under their current maintenance coverage. For more information on Pro/ENGINEER Wildfire 4.0, please visit the Pro/ENGINEER product pages on www.ptc.com.

(a) The timing of any product release, including any features or functionality, is subject to change at PTC’s discretion.

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SiberSafe Hosted XML CMS Service Now Available On-Demand

9 January 2008

SiberLogic, a provider of XML content technology, announces SiberSafe On-Demand, a risk-free, monthly subscription approach to XML content management.

For technical documentation teams challenged by internal budget approval processes, or by the perceived complexity of an in-house CMS software implementation, SiberSafe On-Demand provides a convenient, cost-effective and straightforward solution.

About SiberSafe On-Demand

SiberSafe is the XML CMS of choice for technical documentation teams who are looking for significant efficiency gains in producing long-lived, complex, evolving content. Now, SiberSafe On-Demand delivers full SiberSafe functionality as an ASP service via high speed internet access to a hosted server in a fully secure data center. Each team has full access/administrative rights to their server for system administration and configuration. SiberSafe On-Demand also includes daily content backups and SiberLogic’s technical support service.

SiberSafe On-Demand “out of the box” configuration offers your choice of DTD – DITA, DocBook, or MIL-STD 2361 – complete with sample templates and stylesheets. Also included are SiberSafe Communicator (our XML authoring tool) and our integrated publishing tool. Alternatively, you can continue to use your own editor, such as XMetaL, Epic, or FrameMaker, or your own publishing tools.

Risk-free content management

Documentation teams can start with as few as two SiberSafe On-Demand users (one author and one reviewer), and add users gradually as the size of their production environment increases.

SiberSafe On-Demand requires no long-term commitment and can be cancelled at any time. In addition, teams can convert from the On-Demand service to an in-house SiberSafe installation and apply a percentage of monthly fees paid to date towards their license purchase.

Pricing and availability

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SiberSafe On-Demand costs only \$799 per month for the first pair of users (one author and one reviewer) and as little as \$275 per user monthly for 10+ users. There are no additional upfront costs.

Anyone who signs up for SiberSafe On-Demand before the end of January 2008 will receive access for one additional author free of charge for the first year.

Request a temporary evaluation of SiberSafe On-Demand at <http://www.siberlogic.com/evaluation/online.asp>

About SiberLogic

SiberLogic is a provider of innovative XML content technology. SiberSafe, their flagship product, is the only application on the market today that integrates a feature-rich XML content management system with a knowledge management platform built on semantic web technologies, for the ultimate in content development efficiency and traceability.

Designed specifically for technical authoring teams, SiberSafe streamlines the capture, packaging and delivery of knowledge from those who own it (such as product designers), to those who need it (such as operators, support specialists, and maintenance engineers), with full support for industry standards that include DocBook, DITA, MIL-STD 2361, S1000D, SCORM, and IETM/IETP.

With customer installations serving teams of five to 500 authors in defense, aerospace, finance, manufacturing, and technology, SiberSafe is a sophisticated, scaleable, yet cost-effective solution for managing the content and knowledge within corporate and technical publications.

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SYCODE Launches Nine Data Exchange Add-Ins for SpaceClaim

14 January 2008

SYCODE launched nine CAD file import and export add-ins for SpaceClaim.

"SpaceClaim is all set to revolutionize the way we think about CAD software", explains Deelip Menezes, owner of SYCODE. "And we want to be part of that revolution. At SYCODE, we firmly believe that SpaceClaim Professional 2007+ is CAD 2.0 - the next generation of CAD software. Over the past few months SpaceClaim Corporation has made significant changes to their software and their business model, something, we believe, will work in their favor and increase their footprint in the CAD software market. SpaceClaim, the company and the software, is all about openness and simplicity, both of which form an integral part of what SYCODE has continuously strived to achieve. These data exchange add-ins are our contribution towards enhancing SpaceClaim to fit into a CAD users workflow."

The import add-ins are:

- (1) STL Import for SpaceClaim - Stereolithography STL file import add-in
- (2) 3DS Import for SpaceClaim - 3D Studio 3DS file import add-in
- (3) 3DM Import for SpaceClaim - Rhinoceros/OpenNURBS 3DM file import add-in
- (4) OBJ Import for SpaceClaim - Wavefront OBJ file import add-in

The export add-ins are:

- (1) DWG Export for SpaceClaim - AutoCAD DWG file export add-in

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- (2) DXF Export for SpaceClaim - AutoCAD DXF file export add-in
- (3) 3DS Export for SpaceClaim - 3D Studio 3DS file export add-in
- (4) 3DM Export for SpaceClaim - Rhinoceros/OpenNURBS 3DM file export add-in
- (5) OBJ Export for SpaceClaim - Wavefront file export add-in

The add-ins are priced at 195 EUR each and are available as fully functional 10 day/run trials. The software comes with detailed documentation in the form of a compiled HTML help file which contains a step-by-step tutorial to get the end user started in the shortest possible time.

Detailed information about these add-ins and trial downloads can be found at

<http://www.sycode.com/products/index.htm>.



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