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Acquisitions

Bentley Acquires Design Power to Enable Unique Front-End Engineering Design Solutions

29 January 2007

Bentley Systems, Incorporated announced that it has acquired Design Power, a leading provider of design automation solutions used by major engineering, construction, and manufacturing firms, including Fluor, KBR, General Electric - Oil & Gas, Bayer AG, Emerson Motors Company, Robertson Ceco Corporation, NCI Building Systems, Inc., and the Selvaag Group.

At the core of Design Power's solutions is Design++, a knowledge-based, multi-dimensional engineering solver. Design++ captures in-house engineering expertise through flexibly extended business rules to automate design iterations in engineering platforms such as MicroStation. The results are designs that are heuristically optimal within the economic context modeled by the captured knowledge. This very powerfully boosts productivity, improves quality, accelerates delivery, and creates a sustainable competitive advantage.

Design++ automation solutions enable user organizations to more effectively offer complex systems and products that are designed-to-order. They provide design-based configurations, proposals, and technical drawings; reduce cost by automatic reuse of design rules and best practices in the design for manufacturing; minimize subsequent rework by ensuring feasible designs; and build customer loyalty by increasing responsiveness to initial proposals and change requests. The solutions can be applied to design processes for systems and products as diversified as process plants, capital equipment, electrical systems, and building structures.

Design Power's PlantWise solution utilizes Design++ with a versatile, and extensible rulebase to enable fully piped and lowest-cost 3D plant concept models to be created for review and contextual optimization. Featuring collaborative "what-if" change implementation and feedback, PlantWise allows users to interactively and visually iterate to arrive at plant layouts that best meet design criteria for throughput, economics, and safety. Piping applications such as PDS, among others, may then conveniently be used for detailed engineering with minimal information loss.

As Thilo J. Werners, project manager, Bayer Center for Technical Engineering, explained in discussing a \$36-million Bayer AG methyl chloride project, "The primary advantage of using PlantWise is the ease with which we can create and review new plant concepts in 3D. The software allows managers to review and discuss design ideas and to implement alternative solutions on the fly.

"For the methyl chloride plant, we considered numerous variations, including piping and cable tray routing, operations concepts, erection and dismantling access for every piece of equipment, piping studies, instrumentation and control loops, penetrations, and passages. PlantWise enabled the team to quickly develop and implement alternative solutions."

CIMdata PLM Industry Summary

Bentley is integrating PlantWise with its AXSYS, AutoPIPE, and STAAD products to deliver a complete solution for front-end engineering design (FEED). Outputs include initial process flow diagrams (PFDs), preliminary P&IDs, equipment sizing for procurement and process analysis, and engineering analysis models that help assess plant design safety based on applicable standards.

Said CEO Greg Bentley, “First, on behalf of Bentley colleagues around the world, I am pleased to welcome all Design Power users into the Bentley user community. By integrating the capabilities of Design++ and PlantWise within Bentley’s DigitalPlant portfolio, we are able to offer an advanced, rules-based plant engineering and design solution surpassing any other. It will provide sharp increases in productivity early in the design phase, and lead to significant and continued cost and time savings throughout the plant lifecycle.

“Better still, we can deliver all of this improved capability without asking users to change their preferred engineering and construction platform. Our new FEED solution will interoperate with whatever tools they’ve come to trust.”

Mr. Bentley continued, “Design Power CEO Ulf Strom and his colleagues have proven the advantageous applicability of a flexible, heuristic solver to many demanding AEC requirements. Our solution executives at Bentley are already planning breakthrough configurations of the Design++ solver for other asset classes, such as certain repeatable building types, for which the technology has been deployed so impressively by Robertson Ceco and Selvaag BlueThink.”

Added Rob Whitesell, vice president, Bentley Software, “Though Design Power has always supported integration with other vendors’ solutions, Bentley’s steadfast commitment to open standards, particularly ISO 15926, will provide Design Power users with even greater opportunities for interoperations. ISO 15926 will facilitate higher levels of data fidelity when moving data into detailed plant design software, allowing the transfer of complete, fully optimized conceptual designs, rather than simply rough snapshots. And the openness of our new FEED solution means all users, especially PDS users, can reap its many benefits on any of their projects.”

Said Ulf Strom, “All of us at Design Power are pleased to be joining the Bentley organization, and know that our many loyal users will be impressed with and benefit from Bentley’s comprehensive portfolio of solutions and capabilities. The new FEED solution that incorporates PlantWise is the first of many innovations they can look forward to.”

Design Power is part of a DigitalPlant acquisition strategy for FEED that began with the purchase of the AXSYS suite of products from Aspentech in 2004, followed by the acquisition of the STAAD product line in 2005. It is yet another achievement towards Bentley’s dual objectives of improving the productivity of its users through interoperable solutions with which they are already familiar, and of leveraging the power of engineering information beyond the design workflows in the plant lifecycle.

[Bentley](#) and the Design Power team will work closely with Selvaag BlueThink, creator of computer-based tools that automate residential building design, in its application of Design++ technology to building industry processes.

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Bentley Acquires KIWI Software to Deliver Complete Structural Workflow Solution

29 January 2007

Bentley Systems, Incorporated announced that it has acquired all operations of KIWI Software, a leading provider of structural modeling, detailing, and fabrication software for industrial plants, buildings, and civil structures.

KIWI Software's flagship product line, ProSteel 3D, is a solution for structural steel detailing and fabrication that supports multiple platforms, including AutoCAD, Inventor, and now MicroStation. The total number of ProSteel 3D users exceeds 6000. Typical applications include structural steel and steel building construction, plant construction, conveying equipment and heavy machinery, aluminum construction, and naval architecture.

Said Bhupinder Singh, senior vice president, Bentley Software, "When it comes to structural engineering, Bentley has been the clear choice for design, analysis, and construction. With this acquisition, [Bentley](#) is also the clear choice for steel detailing and fabrication. This is great news for users as we can now provide them with a complete and fully integrated structural workflow solution."

Continued Singh, "I want to welcome all KIWI Software users to the Bentley user community, and am happy to report that they include a brand new category of user organization for Bentley – structural and facade steel fabricators. KIWI Software has always worked closely with its users to bring them the ease of use, flexibility, and features they require to meet the changing demands of modern structural steel work. Bentley will follow this same strategy as we continue to advance the capabilities of this newest addition to our comprehensive structural solution set."

The KIWI Software acquisition follows Bentley's acquisition in 2005 of RAM International, a leading provider of structural engineering software for building structures made from all major materials, and of the STAAD product line, a global leader in structural design and analysis. It represents yet another achievement towards Bentley's goal of leveraging the power of analysis throughout the design workflows in building, civil, and plant lifecycles.

All KIWI Software executives and staff have joined the Bentley organization, and sales and support will continue to be offered through the KIWI Software channel. For more information, visit <http://www.kiwisoft.de/prostahl/english>.

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CIMdata News

Ask the PLM Expert Ed Miller: How can companies better manage their analysis-related information and work processes?

28 January 2007

Ed Miller president of CIMdata in an article in [Innovate Forum](#) discusses the role of simulation and analysis tools as powerful enablers for developing innovative products as well as establishing innovative design processes. Click [here](#) to read his article.

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Enterprise Simulation Management—A New CIMdata Whitepaper

30 January 2007

CIMdata consulting and research firm announces the availability of a recently published White Paper entitled “Enterprise Simulation Management: An Expanded Perspective on Simulation”. This paper provides a perspective on an emerging market area called Enterprise Simulation Management (ESM), the pressures that motivate its use, an introduction to the market evolution and ESM’s role, and a perspective on its value and future.

Manufacturers around the world are being constantly challenged to improve productivity, lower costs, compress delivery times, and enhance product quality. In order to be successful in this environment, companies must be innovative with their products as well as their processes that enable more effective business operations and customer service.

“As companies seek the most effective ways to address these challenges,” explained Ed Miller, President of CIMdata, “they need to turn their attention to product performance-related simulation as an area that offers the greatest opportunity for enterprise impact.” While the area of simulation and analysis is a key component of an enterprise’s overall PLM strategy, it has been relatively ignored for many years. Investments in simulation have typically been for development or acquisition of focused technologies to be used by specialists. It has not been very visible, well understood, or highly-prioritized within the overall product development organization.

“The situation is changing,” added Mr. Miller. Product-related simulation is being transformed into a visible and accessible component of the product development process, across the full product lifecycle and across extended enterprises. “We call this approach Enterprise Simulation Management (ESM). Forward-thinking firms are incorporating ESM to create more efficient and innovative product development environments so that they can prosper on the world stage, and major technology and service suppliers have launched initiatives to address these industry demands.”

ESM will be more broadly adopted as an enterprise strategy, and industry will gain more experience. Advances will be made in both technologies and practices which will provide more value to companies

that adopt ESM. "Because of the overall value and benefits for the larger enterprise, investments in ESM are anticipated to be one of the highest-priority and fastest-growing areas within the broad field of PLM over the coming years, as leading companies seek to take advantage of it to improve their ability to compete successfully." concluded Mr. Miller.

Copies of the '[Enterprise Simulation Management](#)' White Paper are available at no cost through the CIMdata website.

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Company News

Autodesk Brings the Power of 3D to the 16th Annual FIRST Robotics Competition

29 January 2007

[Autodesk, Inc.](#) demonstrated its ongoing commitment to education with a \$17 million donation of software and training resources to FIRST (For Inspiration and Recognition of Science and Technology) and the students participating in the 2007 FIRST Robotics Competition. As Autodesk marks its 16th consecutive year as a FIRST Championship sponsor and the FIRST Robotics Competition official 3D and animation software supplier, it is offering a priceless education for tomorrow's engineers. Student participants will soon gain firsthand experience with Autodesk Inventor software and Autodesk 3ds Max, 3D modeling, animation and rendering software.

More than 1,300 student teams from seven countries will design and build robots to compete in 37 regional competitions, with winners advancing to the FIRST Championship in Atlanta, Georgia, April 12-14, 2007. As part of its support for the FIRST program, Autodesk provides thousands of seats of Inventor and 3ds Max to the student participants for their use in designing, building and visualizing their projects. Autodesk will also honor two exemplary teams with special awards at this year's Championship event. The Autodesk Visualization Award will recognize superiority in student animation and the Autodesk Inventor Award will honor excellence in student mechanical design.

Autodesk is also hosting a newly developed website entitled FIRSTbase (<http://www.autodesk.com/firstbase>), the Autodesk source for FIRST teams. The website is a complete destination where teams visit to download free Autodesk software, to access training, the Autodesk Kit of Parts, the Autodesk Design Competition, FIRST resources and for team communications.

"Autodesk's support of FIRST has been instrumental to the growth of the program and has fueled the ambitions of thousands of aspiring engineers and inventors," said Dean Kamen, inventor, entrepreneur and founder of FIRST. "Their software brings to life the students' visions while fostering collaboration and teamwork, and offering real-world experience with advanced design and animation technology. The rewards and excitement from seeing their ideas come to life are unmatched, and the education they receive is invaluable."

FIRST was founded by Dean Kamen in 1989 to inspire an appreciation of science and technology in young people. FIRST designs accessible, innovative programs to build self-confidence, knowledge, and life skills while motivating young people to pursue opportunities in science, technology, engineering and math. Since 1992, Autodesk has been working with the FIRST Robotics Competition to provide students the opportunity to learn about the worlds of engineering and visualization and has contributed approximately \$89 million in software for team use. This year over 32,000 high school students are pushing the boundaries of innovation in engineering and 3D design visualization with support from Autodesk.

"Autodesk is proud to be a long-time sponsor of FIRST, building passion for math and science among students and ultimately, helping them learn real- world skills from a company that will be an important technology partner as they move into the field of design and engineering," said Robert "Buzz" Kross, vice president of Autodesk Manufacturing Solutions. "We continue to be amazed at the creativity and passion students display each year for this program. Together, Autodesk and FIRST are helping shape the engineers of tomorrow."

About FIRST

Accomplished inventor Dean Kamen founded FIRST (For Inspiration and Recognition of Science and Technology) in 1989 to inspire an appreciation of science and technology in young people. Based in Manchester, N.H., FIRST designs accessible, innovative programs to build self-confidence, knowledge, and life skills while motivating young people to pursue opportunities in science, technology and engineering. With the support of many of the world's most well-known companies, the not-for-profit organization hosts the FIRST Robotics Competition and FIRST Vex Challenge for high-school students, the FIRST LEGO League for children 9-14 years old, and the Junior FIRST LEGO League for 6 to 9 year-olds. To learn more about FIRST, go to <http://www.usfirst.org>.

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Autodesk Encourages Students to Exhibit Their 3D Design Talent

29 January 2007

Autodesk, Inc. furthered its ongoing commitment to education, launching the Inventor Student Design Contest. Until May 1, 2007, post-secondary students are invited to enter their innovative 3D designs created with Autodesk Inventor software for a chance to win top-of-the-line prizes from HP, AMD and 3Dconnexion. The judges, who include Autodesk employees, design professionals and industry experts, will judge the entries based on their broad use of Inventor capabilities, innovation and overall aesthetic appeal. Winners will be announced May 15, 2007.

"Students are the innovative leaders of tomorrow, and this contest is Autodesk's way of showcasing their talent and creativity," says Robert "Buzz" Kross, vice president of Autodesk Manufacturing Solutions. "This is a valuable opportunity for young designers to further develop their real-world design skills while being recognized by their peers and leading industry experts."

Autodesk Inventor software helps students build, apply and test their design skills and eventually enter the workforce with a competitive advantage. In its commitment to serve the next generation of engineers, Autodesk recently launched the Student Engineering and Design Community, a Web portal that allows students to download free* copies of Autodesk software, such as Inventor. In order for students to participate in the Inventor Student Design Contest, they must first register with the Autodesk Student Engineering and Design Community by visiting <http://www.students.autodesk.com/>.

Along with peer and industry recognition, the winners will receive the following prizes:

- Grand-Prize: HP xw4400 Workstation, including an ATI FireGL V7200 card and a 20" flat panel monitor, as well as a 3Dconnexion SpacePilot.
- First-Place: Xbox 360 gaming system designed using ATI FireGL from AMD, courtesy of AMD and a 3Dconnexion SpaceExplorer.
- Second-Place: ATI FireGL 7200 Graphics Card and 3Dconnexion SpaceTraveler.
- Third-Place: ATI FireGL 3300 Graphics Cards from AMD and 3Dconnexion SpaceNavigators - Personal Edition to five third-place winners.

"Designers rely on the best 3D hardware and software tools to bring their ideas to life," said Janet Matsuda, senior director, Workstation Graphics, AMD. "Our focus is on creating products that substantially enhance the creativity and productivity of designers. Working with Autodesk, AMD is delivering high-performance graphics hardware solutions that remove design and production barriers, enabling artists, architects and engineers to create with greater speed and precision."

For specific submission requirements and detailed judging criteria, please visit <http://students.autodesk.com/inventorcontest>.

* Free products are subject to the terms and conditions of the end-user license agreement that accompanies download of the software.

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Delcam Consolidates North American Sales Organisation

29 January 2007

Delcam has consolidated its structure in North America to create a single sales organisation in the region for its Power Solution and FeatureCAM product ranges, in place of its previously separate USA and Canadian activities. Glenn McMinn has been appointed President, Delcam North America. In new position, he will be responsible for coordinating the activities and overall management of the combined North American sales and support teams.

The PartMaker CAM range will continue to be sold and supported worldwide from the established Pennsylvania base. With its specialist focus on systems for Swiss-type lathes, Delcam believes that this range needs a dedicated team of engineers, both to service its growing number of North American customers and to support its expanded distribution across the company's global reseller network.

"We have a great deal of talent in North America and we want to make the most of our resources, expand our business opportunities and provide the best possible service to our customers," explained Delcam's Managing Director, Hugh Humphreys. "I believe that there will be significant benefits in having a combined sales and support organisation to make full use of the complimentary skills and experience in our Windsor and Salt Lake City offices. Administratively, it is much easier to share these skills if we have a combined operation."

Delcam has grown its North American business by around 65% over the past three years and Mr. Humphreys sees many opportunities for further growth. "With our PowerMILL, FeatureCAM, PartMaker and ArtCAM ranges, we offer the world's broadest selection of CAM systems, covering every requirement from 2D engraving up to complex five-axis machining," he stated. "We also offer programs for product design, tooling design, reverse engineering and inspection and so can provide a complete product development solution to our customers."

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Magma Expands Operations in India and U.S.

29 January 2007

[Magma® Design Automation Inc.](#) announced expanding operations in India and the United States. Magma's Bangalore operation has moved to a new 40,000 sq. ft. facility, and Magma announced its corporate headquarters will relocate to San Jose as of March 12. The new San Jose facility will provide Magma a significant amount of additional space to accommodate its growth.

The Bangalore facility is one of three the company now has in India. Magma opened a facility in Noida in 2006 and began operations in Mumbai as part of Magma's November 2006 acquisition of Knights Technology. Magma already has over 200 employees in India and these facilities will enable the company to expand significantly in this region to take advantage of the availability of world-class engineering talent and provide additional support to its growing customer base in India.

"A globally distributed product development and support network gives Magma access to talent anywhere in the world to ensure our customers' success," said Anand Anandkumar, managing director of Magma Design Automation Pvt. Ltd. "India's growing semiconductor market, depth of technology talent and excellent university and government-sponsored engineering training programs make it an ideal location for Magma to expand."

"Magma is focused on building on the success we have had in IC implementation to expand our product portfolio to address applications such as circuit simulation and physical verification," said Magma

chairman and CEO Rajeev Madhavan. "We are making significant investments in R&D, product engineering and applications engineering and presently have more than 800 employees worldwide. With the new facilities in India and San Jose, we can continue hiring talented engineers to develop products that fully address the RTL-to-silicon design flow and allow our users to reduce the turnaround time and costs of nanometer semiconductor design."

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MSC.Software Joins the Council on Competitiveness to Collaborate on the National High Productivity Computer Systems Initiative

30 January 2007

MSC.Software, announced that the company had joined the [Council on Competitiveness](#) to share MSC's leadership in High Performance Computing (HPC) with the Council's network and the private sector.

The Council on Competitiveness is the nation's leading organization of CEOs, university presidents, and labor leaders committed to ensuring the future prosperity of all Americans through enhanced U.S. competitiveness in the global economy and the creation of high-value economic activity in the United States.

MSC.Software has worked throughout the years to extend the boundaries of high performance simulation with their MD Nastran solution on a wide variety of platforms from supercomputing systems to computing cluster servers comprised of hundreds of low cost computers.

Participating in the Council's High Performance Computing Initiative, MSC.Software will join the national "brain trust" of industrial HPC users, universities, computer hardware and software vendors, and federal agencies/national laboratories that use and fund development of HPC, to gain insights into how the private sector currently uses advanced computing capabilities.

The goals of the HPC initiative are to analyze the economic rationale for sustaining U.S. leadership in HPC, especially the impact on manufacturing, services, business, and state-of-the-art research capabilities; identify key private sector HPC application needs and priorities; identify workforce education and training needs to more effectively integrate HPC in the private sector; and foster public-private sector partnerships to better leverage resources and expertise to help overcome barriers to more widespread private sector usage.

"As a company, we are excited to be a part of this initiative that is intended to stimulate and facilitate wider usage of HPC across the private sector," said Bill Weyand, chairman and chief executive officer of MSC.Software. "As we work to greatly increase productivity and innovation for our customers, it is an honor to join with other thought leaders across the country to advance high performance computing and overall competitive advantage."

"MSC.Software is a valued addition to the Council's work with HPC initiatives, bringing a wealth of experience to the table to help us achieve our goals," said Deborah L. Wince-Smith, president of the Council on Competitiveness. "As we work together to ensure American prosperity and high-value economic activity in the United States, we look forward to MSC.Software's contribution to our HPC project, as well as their proven technology acumen, to be a valued asset for our initiative and organization."

More information on MSC.Software and their work in high performance simulation can be found at <http://www.mscsoftware.com>.

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SAP Aligns Global SME Organization to Drive Next Phase of Growth Initiative

31 January 2007

SAP AG announced executive appointments in its newly formed global organization responsible for overseeing sales, marketing, operations and the alignment of resources to small businesses and midsize companies. Under the leadership of Hans-Peter Klaey, president of SAP's SME organization, SAP has aligned its team to support a growing focus on the market segment over the years come and to create additional opportunities for both customers and partners. The team will expand market coverage, continue the successful rollout of the SAP® PartnerEdge™ program and execute upon SAP's multi-channel delivery strategy of business management solutions designed to meet the diverse requirements of small businesses and midsize companies.

The new global SME leadership team is responsible for implementing go-to-market strategies, customer and partner engagement models and a diversified partner ecosystem to deliver SAP's expanding portfolio of solutions for small businesses and midsize companies. It will oversee delivery of SAP's recently announced new midmarket solutions, including the next version of SAP® All-in-One solutions based on mySAP™ ERP 2005 (see Jan. 16, 2007 announcement, titled "[SAP Delivers Enterprise SOA for Midsize Companies with Next Evolution of SAP All-in-One Solutions](#)"), and a new "enterprise SOA by design" solution enabling SAP to expand its reach to midsize companies currently underserved by existing business applications (see Jan. 24, 2007 announcement, titled "[SAP Unveils New 'Game Changing' Approach to Midmarket](#)"). The new leadership team also oversees delivery of the SAP® Business One application for small businesses and mySAP™ Business Suite applications for companies in the segment requiring comprehensive business management capabilities.

SAP plans to extend its position in the market segments of small businesses and midsize companies through an intensified customer and partner focus and an improved alignment across all internal business functions -- sales, marketing, operations, field service, support -- and the SAP PartnerEdge program. Under Klaey, the new global SME organization is committed to accelerating the growth of the SAP customer base while working closely with partners to devise and introduce innovative solutions that meet customer needs. To continue meeting these goals and add further focus to the small and midsize space, new executive appointments within SAP's SME organization include:

CIMdata PLM Industry Summary

SME Indirect Channel: Terrance Scerri is senior vice president of SME Indirect Channel, responsible for overseeing the SAP PartnerEdge indirect channel program, extending and diversifying SAP's partner ecosystem while ensuring that channel program investments improve operational excellence, strengthen partner performance and increase customer satisfaction. He succeeds Donna Troy, executive vice president, who will leave SAP to pursue other personal and professional interests. Scerri joined SAP in early 2006, and in his position as senior vice president of global small business sales, reported to Troy.

SME Regional Heads:

Tom Kindermans is senior vice president SME in EMEA Central, overseeing SME business operations in Germany, Austria, Switzerland, Belgium, Luxembourg and the Netherlands

Stephen Watts is senior vice president SME in Asia Pacific, guiding SME business operations across Japan, China, Korea, India, South East Asia and Australia/New Zealand

These new appointments round out the regional leadership that also includes Eric Duffaut, executive vice president, EMEA NEWS; Rodney Seligmann, executive vice president, US and North America; Luis Murguia, senior vice president, Latin America; and Toshifumi Kobe, vice president, Japan.

SME Operations:

Michael Schmitt is senior vice president for SME Operations, responsible for finance and administration as well as development, management and continuous optimization of all processes and operations to encourage growth in the business.

SME Business Development:

Bobby Vetter is senior vice president for SME Business Development, responsible for driving strategic business planning and growth initiatives and coordinating all SME Solution Centers.

Midsized Enterprise Go-to-Market:

Emma Morice, senior vice president, midsized enterprise go-to-market, leads up a team focused on developing SAP's business model to deliver business solutions to the midmarket in the most effective and efficient way -- providing customer with more choice in how they access SAP solutions to suit their individual business requirements.

SAP Business One Go-to-Market:

Niels Stenfeldt is vice president of SAP Business One and related go-to-market strategies.

The appointments and formation of the new global SME organization strengthen SAP's growing programs for small businesses and midsize companies. SAP has successfully constructed a world-class platform to serve its partners and global customer base while addressing the needs of growing companies. SAP PartnerEdge, the cornerstone of SAP's partner channel business, has been rolled out globally to serve 2,240 partners, developing almost 1,000 add-ons to SAP's product portfolio of SAP All-in-One solutions and the SAP Business One application. The growth of SAP's indirect business has consistently outpaced the overall market. SAP today serves more than 22,200 small and midsize customers through its partner channel.

"These organizational adjustments reflect the depth of talent and expertise within both our global and regional teams serving small businesses and midsize companies, and will drive the next phase of growth among this important customer segment to create outstanding opportunities for our partner community and SAP," said Klaey. "We thank those who have helped SAP achieve its strong progress in the segment thus far, and we look forward to the many accomplishments to come from the contributions of team members in both new and existing roles."

For more information about SAP PartnerEdge, visit <http://www.sap.com/partners/categories/channel/partneredge/index.epx>. For more information about SAP All-in-One solutions, visit <http://www.sap.com/solutions/midsize/allinone>. For more information about the SAP Business One application, visit <http://www.sap.com/smallbusiness/index.epx>.

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SAP Ecosystem Powers Collaboration and Innovation Among Oil and Gas Industry Customers and Partners

30 January 2007

SAP AG announced its eighth industry-focused collaboration effort, the industry value network (IVN) for oil and gas. SAP has expanded the successful IVN model to bring together a network of independent software vendors (ISVs), systems integrators (SIs) and technology vendors with SAP and executives from leading oil and gas customer companies to solve customers' most pressing business challenges through the creation and improvement of industry-relevant business processes. The IVN for oil and gas joins existing IVNs in the banking, chemicals, consumer products, high tech, retail, public sector and forest and paper industries.

"Today, achieving leading-edge innovation requires the input of more than one business entity and IT vendor," said Bob Martin, SAP integration project manager, Conoco Phillips and chairman of the SAP Oil & Gas Global Industry Advisory Council. "The SAP Oil & Gas Global Industry Advisory Council sees industry ecosystem collaboration supported by SAP's industry value networks as the way of the future. The IVN for oil and gas can achieve customer value by leveraging the web of expertise, solutions and capabilities to address our most pressing business challenges. We see promise in this unique approach to enable us to increase our productivity and supply chain performance, lower total cost of ownership and provide a new level of interoperability and standards."

Joining Forces To Address Needs of Oil and Gas Companies

The existing SAP Oil & Gas Global Industry Advisory Council includes 17 companies -- all major integrated oil companies, large national and midsize thought leaders -- such as Conoco Phillips, Holly Corporation, Petrobras, Statoil and Tesoro. The members of the advisory council will work with SAP and partner IVN members to build new solutions for the oil and gas industry. To date, IVN members include Accenture, HP, IBM, Implico, KSS, LogicaCMG, Meridium, NRX, Quorum Business Solutions, TechniData, Triple Point, Vendavo and others. IVN members will collaborate to deliver solutions and integration scenarios to address industry-specific pain points including the need to maintain assets and secure or grow reserves to meet the world's increasing demand for energy. Oil and gas companies are faced with addressing these fundamental challenges as their business environment becomes increasingly complex and changes rapidly due to growing geopolitical uncertainty, limited access to new resources, globalization and the changing influence of national oil companies.

To help accelerate development of software innovations necessary for this industry to address such challenges, members of the IVN for oil and gas are initially collaborating on the focus topics of the digital oil field and the hydrocarbon supply chain. For these focus topics, the IVN members are working together to deliver solutions for integrated exploration and production, land lease management, real-time gas allocation management, asset life-cycle management, secondary distribution and terminal management, commodity trading, and price optimization and margin management. By delivering pre-integrated, standard, end-to-end solutions and services based on a common technology platform, SAP NetWeaver, the solutions resulting from the IVN collaboration will help customers avoid costly integration projects.

Collaboration Between Customers, Partners and SAP Already Paying Off

SAP's IVN concept of community collaboration is already paying dividends for IVN members, in projects with customers and partners.

SAP and Triple Point Technology are working with the Holly Corporation, an independent petroleum refiner and marketer, and other SAP oil and gas customers on a front-to-back office solution integrating Triple Point's real-time trading and risk management systems (Commodity SL) with SAP logistical software to enable companies to optimize the procurement, marketing and trading of commodities.

"The resulting solution of our close collaboration with SAP and Triple Point Technology is exactly what we have been seeking to integrate our trading and risk management functions seamlessly with all of our back-office and other operations managed by SAP," said Mark Evans, director, SAP Projects, Holly Corporation. "By combining market-based financial valuations with physical movements and taking advantage of real-time data, we can now make buy/sell decisions that enhance profit and give us a significant competitive advantage. This unique multi-vendor approach, embodied by the IVN, will play a critical role in addressing our needs and providing the innovation and integrated end-to-end solutions we need for being successful. We see the IVN initiative as a true catalyst and enabler for increased customer value."

CIMdata PLM Industry Summary

In other initiatives of the IVN for oil and gas, SAP has worked together with Implico and Accenture on a series of projects in the areas of secondary distribution management and the digital oil field, respectively.

The volume and price volatility experienced in the secondary distribution of the value chain can lead to station run-outs, poor fleet utilization and expedited deliveries. Implico has collaborated with SAP to design and deliver a packaged solution that not only addresses these issues but does so in a rapidly deployable and predictable cost manner. The resulting applications, SAP® Oil & Gas Secondary Distribution and Implico OpenTAS, have already delivered improved inventory management, reduced transportation expenses, increased sales and reduced days sales outstanding for several companies within the industry.

"While our initial collaboration with SAP has already delivered some key innovations, we see the IVN initiative providing the necessary framework and foundation of network collaboration to drive the next level of innovations for the industry segment we serve," said Thomas Ernst, managing director, Implico. "We are excited about these new development and market opportunities that the industry value network provides to partners."

The digital oil field is both a solution and a problem, producing more data than ever before. It is critical for oil and gas companies to make the most of all that new information. SAP and Accenture teamed up to accelerate the well delivery process and efficiently manage well maintenance operations. Accenture and SAP will continue working together in the IVN for oil and gas to enhance the solution to include support for additional functions for the integrated upstream oil and gas value chain.

SAP's Open Ecosystem Encourages Co-Innovation

As part of its platform strategy, SAP is building an open ecosystem to drive adoption of enterprise service-oriented architecture (enterprise SOA); foster co-innovation between SAP, customers and partners; and deliver value for all participants. Building on its deep industry knowledge and diverse community of partners and leveraging SAP NetWeaver as a platform for product and service innovation, SAP and its ecosystem are driving new dimensions of collaboration -- turning breakthrough ideas into innovative solutions for customers.

"With the IVN for oil and gas, SAP and its partners are bringing industry expertise, best practice business processes and platform leadership -- plus the overall power of the ecosystem -- to tackle and solve our customers' most critical business challenges," said Holger Kisker, vice president, oil & gas industry business unit, SAP. "Together with our partners, SAP is driving innovation, interoperability, standards and thought leadership for our customers. Most importantly, the IVN further empowers customers to be active participants in the SAP ecosystem and key contributors to innovating new business processes relevant to their individual needs."

About SAP for Oil & Gas

SAP® for Oil & Gas is a solution set that combines mySAP™ Business Suite applications with tailored functionality to meet the unique needs of companies specializing in exploration, production, refining,

distribution, trading, marketing, and sales of petroleum-based products. This solution portfolio offers best practices for adaptive supply chain management, efficient enterprise asset management and improved customer relationship management. Based on the open architecture of the SAP NetWeaver® platform, SAP for Oil & Gas enables seamless integration of business processes and third-party systems

Web site: <http://www.sap.com>

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think3 Hires New Business Leader in India as Part of Expansion Plans

30 January 2007

[think3 Inc.](#)® announced that Rajeev Nelamangala Siddamaliyappa has joined the company as its business development manager in India and will be also responsible for increasing adoption of its free2Design (<http://www.free2Design.org>) initiative to introduce free and legal use of 2D software into emerging markets.

Rajeev brings a wealth of experience into his new role. He has more than eight years of experience in sales and marketing with companies such as Samsung and Reliance. In addition, he has worked in the computer-aided design and technology services industries in the same role. Prior to think3, Rajeev was General Manager of Sales and Marketing in India at Techlogique Consulting, a global consulting firm that provides IT and audio-visual related design services. Rajeev earned his Bachelor's degree in Electronics from Mysore University and a MBA in marketing from IFIM, Bangalore.

"Rajeev brings us this great combination of marketing and sales expertise with global manufacturing and consulting companies based in India," said Eugenio Vacca, "His track record of success combined with his knowledge of CAD and design will help us scale in India and drive adoption of free2Design. Bringing someone of his caliber into think3 underscores the level of investment and interest we have in the Indian market."

"The timing is right in India for this type of initiative that fosters design and innovation here, and I'm really excited about joining the company," said Rajeev. "We've seen more than 200,000 people visit the free2Design site in the past couple of months and more than 20,000 have downloaded the software. This is the tip of the iceberg as we build educational and industrial partnerships in India and get the word out."

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Valor Appoints New European President

25 January 2007

[Valor](#) Computerized Systems Ltd, the leader in productivity enhancing software solutions for the electronics industry, has appointed Stephan Häfele as the new president of its European operations, Valor

Computerized Systems NV. Stephan Häfele joins Valor from simulation software company Sigma-C Software AG, where he was responsible for strategic accounts and European sales. Prior to this role Stephan held various sales and key account management positions at GSI Lumonics Inc. and Orbotech. He started his career as an independent sales representative for Valor, EIE Systems and ETEC in Central Europe. Commenting on the appointment, Ofer Shofman, CEO at Valor, said “We are very pleased to welcome Stephan to the Valor management team. His proven track record and experience in the PCB electronics industry will be a tremendous asset, and strengthen our European organization. We start 2007 with a strong order book, an expanded team, and new next generation assembly solutions being launched this year. We are well positioned to penetrate new markets and realize the company’s aggressive growth strategy.”

Former president of Valor European operations, David Bengal, has moved into a corporate role as Valor’s Vice President of Marketing.

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Events News

Dassault Systèmes to Showcase ENOVIA SmarTeam Product Lifecycle Management for SMBs at SolidWorks World 2007

1 February 2007

Dassault Systèmes ([DS](#)) announced that ENOVIA SmarTeam, its full PLM offering for small and mid-sized businesses, will demonstrate its unique value to SolidWorks® software users at the [SolidWorks World 2007 Conference](#), being held Feb. 4-7, 2007 in New Orleans. Attendees will see how ENOVIA SmarTeam provides an affordable, modular entry-point into a PLM strategy that enables SolidWorks customers to cut costs, speed time to market, and enhance innovation.

ENOVIA SmarTeam will be showcased in Booth #819. SmarTeam Design Express, ENOVIA SmarTeam’s offering for a rapid “point of entry” to PLM, will be demonstrated in the Partner Pavilion. Additional highlights include Knapheide Manufacturing, a leading U.S. truck body maker, presenting the business benefits it gains from using ENOVIA SmarTeam to automate engineering change processes and streamline SolidWorks data management.

The ninth annual SolidWorks World Conference brings together designers, engineers, managers and partners to discuss ideas, trends, and the technology shaping the future of mechanical design.

“ENOVIA SmarTeam is a secure solution for those customers looking for an enterprise PLM solution,” said Rainer Gawlick, vice president, worldwide marketing for SolidWorks Corporation. “Our customers can use ENOVIA SmarTeam PLM solutions to optimize their product data across multiple process disciplines, the enterprise, and beyond.”

“SolidWorks and ENOVIA SmarTeam are the winning, complementary combination chosen by a substantial mutual install base to achieve advanced collaboration,” said Alex Zeltcer, general manager, ENOVIA SmarTeam. “We are closely aligned to bring rapid-value PLM scope, flexibility and scalability to the SolidWorks community.”

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DesignVision Winners Take the Stage at DesignCon 2007 Accepting Awards for Best Tools and Products in Semiconductor Industry

31 January 2007

Honoring the best products as the most beneficial to the semiconductor industry, the International Engineering Consortium (IEC) announced the winners of the 2007 DesignVision Awards at DesignCon 2007, which will take place through Thursday, February 1 at the Santa Clara Convention Center.

IEC Executive Vice President Roger Plummer stated, “Our DesignVision Awards honor those catalyzing positive change in high-technology, business, and academia, completely in line with the IEC’s mission. We’re pleased to give tribute to the innovators who have helped advance progress in electronic design.”

A panel of judges selected from the DesignCon Technical Program Committee chose winners. This year’s Technical Program Committee consisted of 96 of the industry’s top thought leaders.

In the nine categories, the 2007 award winners include the following companies and products respectively:

ASIC and IC Design Tools

Cadence Design Systems, Inc. – Cadence Space-Based Router

Design Verification Tools

OneSpin Solutions -- OneSpin 360 Module Verifier

Interconnect Technologies and Components

Denali Software -- DDR PHY Interface (DFI) Standards

PCB Design Tools

PCB Libraries, Inc. -- IPC-7351A LP Wizard

Semiconductors and ICs

National Semiconductor -- LM3370 Multi-Channel Integrated Power Management Device

Semiconductors and ICs (IP)

Stratosphere Solutions, Inc. -- StratoPro

Structured/Platform ASIC, FPGA, and PLD Design Tools

Altium Limited -- Altium Designer 6

Xilinx -- PlanAhead Design and Analysis Tool (Version 8.2)

System-Level Design Tools

Synplicity, Inc. -- Open IP Encryption Methodology

Chip Estimate -- InCyte Enterprise

Test and Measurement Equipment

Agilent Technologies -- J-BERT with industry first built-in clock data recovery (CDR)

LeCroy -- SDA 18000

Tektronix, Inc. -- RSA6100A Real-Time Spectrum Analyzer

Industry professionals can experience the 2007 winning products first-hand on the DesignCon exhibition floor with an Exhibits Only Pass available at the show. Visit <http://www.designcon.com/2007> for full information or contact Lisa Reyes at lreyes@iec.org or +1-312-559-3325.

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RuleStream to Showcase Latest Technology at SolidWorks World 2007 in New Orleans

30 January 2007

RuleStream Corporation will demonstrate RuleStream's latest .NET-based SolidWorks® integrated solution at [SolidWorks World 2007](#). RuleStream provides enterprise software to large manufacturers to enable them to manage and automate key complex engineering and design processes.

RuleStream's leading edge technology platform for the capture and reuse of engineering-related data supports manufacturers in the delivery of "custom" product orders. RuleStream significantly extends the value for SolidWorks users in an engineer-to-order (ETO) environment.

RuleStream, a SolidWorks Solution Partner, will exhibit at booth #520. Visitors to the booth will learn more about RuleStream's unique capabilities specifically tailored to complex custom product manufacturers, including –

- enterprise scalability for global and multi-site operations
- complex drawing automation rule
- reusability across products and processes
- greater flexibility with SolidWorks parts and assemblies

RuleStream's software is the only enterprise-level software solution that provides the tools manufacturers need to create a truly sustainable process with a platform for continuous improvement and innovation.

Through its complete integration with SolidWorks software, RuleStream helps completely engineer new products at the point of sale creating accurate 3D models and drawings needed to process an order. [RuleStream](#) allows sales groups, design engineers and manufacturing teams to –

- capture and reuse intellectual property
- validate designs more effectively
- increase opportunities to assess design alternatives
- have more time for new design innovations

During the conference sessions, RuleStream customer Robbins & Myers will discuss how they increased sales volumes and decreased order throughput and change order processing with RuleStream and SolidWorks at the following session -

Streamlining the sale of custom products with design automation

Tuesday, February 6th, 4:00-5:30

by Michael Crider from the Moyno division of Robbins & Myers

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SolidProfessor to Showcase its Learning Management System at SolidWorks World 2007

1 February 2007

SolidProfessor, a SolidWorks Solution Partner focused on delivering self-paced multimedia training experience for SolidWorks and SolidWorks related software announced today that it will demonstrate its Learning Management System (LMS) at the [SolidWorks World 2007](#) Conference being held from Feb. 4 through Feb. 7, 2007 in New Orleans. Show attendees will see how the SolidProfessor LMS allows customers to access a complete library of self-paced multimedia training for SolidWorks at the click of a mouse.

As a [SolidWorks](#) Solution Partner, SolidProfessor has designed the first of its kind "Search-On-Demand" productivity add-in which is integrated directly inside the SolidWorks design environment and makes it easier than ever for CAD professionals to get their design questions answered fast.

SolidProfessor President David Ptak comments, "We've worked very hard this past year to build innovations that add real value for our SolidWorks customers and VAR partners. We look forward to this yearly opportunity to meet face to face to share our story and to learn from our users how we can continue to add value into the future."

The [SolidProfessor](#) LMS has built a strong reputation for delivering exactly the self-paced multimedia training design engineers need," said SolidWorks Solution Partner Program Manager Efrat Ravid. "Together, The SolidProfessor LMS and SolidWorks 2007 give engineers the innovative tools, design power, and ease of use to design better products."

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Synergis Software to Feature Adept Enterprise Product Data Management at SolidWorks World 2007

30 January 2007

[Synergis Software](#) announced that it will be featuring Synergis Adept® 7 Enterprise Product Data Management and its most comprehensive integration with SolidWorks to date, including multi-level configuration support, at [SolidWorks World 2007](#), February 4-7, 2007 in New Orleans, LA. Synergis Software will be offering one-on-one demos of Adept 7 plus the opportunity for users to speak with the company's top application engineers and executives. A SolidWorks Gold Certified Partner, the company will contribute a presentation, "Adept 7 Enterprise PDM" at the Certified Partner Theater on February 6, from 12:50-1:10 p.m. The presenter, Chris Fabri, senior product specialist, will demonstrate Adept's integration with SolidWorks as well as a "sneak preview" of Adept Explorer, a new web client, which

allows non-CAD users to search, view, print, redline, assign and copy files from Adept's central repository over the Internet.

"SolidWorks customers of all sizes select Adept because Synergis Software is exclusively focused on developing, implementing and supporting Adept enterprise data management and we work directly with our customers to ensure their success," said Scott Lamond, vice president of Sales and Marketing for Synergis Software. "The nature of data management implementations is very different than that of workstation-based CAD. As a PDM developer, we're accustomed to working with legacy data; automating existing processes and workflow; optimizing performance across global networks; integrating with other business systems; and addressing the data management needs of non-engineering departments. This is not typically the expertise or focus of CAD vendors or VARs."

What's New in Adept 7

Key to the newest release of Adept 7 is vastly improved performance over LANs and WANs -- a capability important to organizations with remote and global design teams. "With manufacturing in separate global locations, it's critical to provide the most current, up-to-date information to the people who need it," commented Brian Walsh, IT Manager for SchuF GmbH and an Adept customer. "We wanted to accomplish this using a single, centralized repository of data and a system that allows us to share licenses across continents and time zones."

Adept 7 continues to provide deep integration with the latest versions of SolidWorks and Autodesk design products, including specific support for SolidWorks® 2007 configurations and AutoCAD® 2007-based products, including AutoCAD layouts, and Autodesk Inventor® 11. Synergis Software will provide in-depth demonstrations of all the new capabilities in Adept 7 and the new web client throughout the three day conference.

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Financial News

Autodesk Extends Invitation to Join Its Fourth Quarter Fiscal 2007 Financial Results Conference Call on Tuesday, February 27th at 2:00 p.m. PST

1 February 2007

Autodesk Inc. announced that it will broadcast its fourth quarter fiscal 2007 financial results conference call live via its website on Tuesday, February 27, 2007.

WHAT: Autodesk, Inc. Fourth Quarter FY2007 Financial Results Conference Call

WHEN: Tuesday, February 27, 2007 at 2:00 p.m. PST

HOW: If you would like to listen to the live call, Autodesk will be hosting a webcast at <http://www.autodesk.com/investors>. If you are unable to access the Internet for the call, you may dial in at 866-203-2528 or 617-213-8847 and reference 10432828 as the pass code. An audio replay webcast and podcast will also be available at 4:00 p.m. PST on our website at <http://www.autodesk.com/investors> or by dialing 888-286-8010 or 617-801-6888 and reference 43703753 as the pass code.

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Cadence Reports Q4 Revenue Up 14% Over Q4 2005

31 January 2007

Cadence Design Systems, Inc. reported fourth quarter 2006 revenue of \$431 million, an increase of 14 percent over the \$378 million reported for the same period in 2005. On a GAAP basis, Cadence recognized net income of \$48 million, or \$0.16 per share on a diluted basis, in the fourth quarter of 2006, compared to \$27 million, or \$0.08 per share on a diluted basis, in the same period in 2005. Revenues for the fiscal year 2006 totaled \$1.48 billion, an increase of 12 percent over 2005 total revenues of \$1.33 billion. Net income for the fiscal year 2006 was \$143 million, or \$0.46 per share, compared to net income of \$49 million, or \$0.16 per share for the year 2005.

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

Using this non-GAAP measure, net income in the fourth quarter of 2006 was \$116 million, or \$0.38 per share on a diluted basis, as compared to \$93 million, or \$0.29 per share on a diluted basis, in the same period in 2005. For the fiscal year 2006, non-GAAP net income was \$336 million, or \$1.08 per share, compared to \$258 million and \$0.83 per share in 2005.

"We had outstanding execution across all elements of our business, especially fueled by technology innovation and significant customer engagements in all regions," said Mike Fister, president and CEO of Cadence.

Bill Porter, executive vice president and chief financial officer, added, "We had a very good fourth quarter and year led by 20% or better year over year growth in our verification and custom businesses."

The following statements are based on current expectations. These statements are forward looking, and actual results may differ materially. These statements do not include the impact of any mergers, acquisitions or other business combinations completed after Dec. 30, 2006.

Click here for the [Q4 2006 Financial Schedules](#) 

Business Outlook

For the first quarter of 2007, the company expects total revenue in the range of \$355 million to \$365 million. First quarter GAAP earnings per diluted share are expected to be in the range of \$0.10 to \$0.12. Diluted earnings per share using the non-GAAP measure defined below are expected to be in the range of \$0.23 to \$0.25.

For the full year 2007, the company expects total revenue in the range of \$1.575 billion to \$1.625 billion. On a GAAP basis, net income per diluted share for fiscal 2007 is expected to be in the range of \$0.69 to \$0.77. Using the non-GAAP measure defined below, diluted earnings per share for fiscal 2007 are expected to be in the range of \$1.26 to \$1.34.

A schedule showing a reconciliation of the business outlook from GAAP net income and diluted net income per share to the non-GAAP net income and diluted net income per share is included in the full press release available [here](#).

Audio Webcast Scheduled

Fister and Porter will host a fourth quarter 2006 financial results audio webcast today, Jan. 31, 2007, at 2 p.m. (Pacific) / 5 p.m. (Eastern). Attendees are asked to register at the Web site at least 10 minutes prior to the scheduled webcast. An archive of the webcast will be available starting Jan. 31, 2007, at 5 p.m. Pacific time and ending at 5 p.m. Pacific time on Feb. 7, 2007. Webcast access is available at http://www.cadence.com/company/investor_relations.

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Mentor Graphics Reports Fourth Quarter Results; Delivers Record Bookings, Revenue and Earnings

1 February 2007

Mentor Graphics Corporation announced record fourth quarter revenue of \$246.2 million, up 11% from the prior year fourth quarter. On a GAAP basis, diluted earnings per share were \$.36. Earnings per share were \$.55 on a non-GAAP basis. Bookings were up 20% over the previous fourth quarter, as well as for the full year. For the year, GAAP earnings per share were up from \$.07 in 2005 to \$.33 in 2006, while non-GAAP earnings per share more than doubled from \$.41 to \$.86.

“2006 was a great year across all of our product lines,” said Walden C. Rhines, chairman and CEO of Mentor Graphics. “Customers’ needs for new design platforms, particularly in functional verification, physical verification and yield enhancement, drove strong growth. We expect these needs for new tools and technologies to continue to fuel customer demand.”

Compared to the fourth quarter of 2005, bookings more than doubled in Scalable Verification, and were also up about 35% over the whole year. New and Emerging bookings were up 30% for the quarter and 10% for the year. IC Design to Silicon bookings, up 35% for the year, were down 10% for the quarter. This reflected the concentration of systems company contract renewals, rather than IC company contract renewals, in the quarter. Integrated Systems Design bookings were up 5% for both the quarter and for the year.

IC Design to Silicon continued to extend its lead in design-for-manufacturing with the announcement of its third-generation resolution enhancement technology product, Calibre® nmOPC. The company also announced a relationship with Mercury Computer Systems to create a hybrid computing platform based on the Cell BE processor to accelerate the increasingly time-consuming task of computational lithography.

For the quarter, strong renewals drove North America bookings up 50%, year on year, to record levels. Pacific Rim bookings were up 5%, while Europe and Japan bookings were down 10% and 30% respectively as a result of contract renewal timing. Split of revenue by geography was 55% North America, 25% Europe, 10% Pacific Rim, and 10% Japan.

“2006 saw significant improvement in operating margins as the investments the company has made in new technologies served us well,” said Gregory K. Hinckley, president of Mentor Graphics. “On top of the record results of 2006, and in particular the fourth quarter, we also exited the year with the second strongest book-to-bill the company has ever had.”

Special charges of \$2.9 million were acquisition related.

The company is moving to a new fiscal year ending January 31st, rather than December 31st. As a result, fiscal 2007 will be the month of January 2007 and fiscal 2008 will run February 2007 to January 2008.

Guidance

For full year fiscal 2008, the company expects revenue of about \$830 million, GAAP earnings per share of approximately \$.69 and non-GAAP earnings per share of approximately \$.95.

After the accounting close of fiscal 2007, Mentor will provide further quarterly guidance.

Discussion of Non-GAAP Financial Measures

[Mentor Graphics](#) management evaluates and makes operating decisions using various performance measures. In addition to our GAAP results, we also consider adjusted gross margin, operating margin and net income (loss), which we refer to as non-GAAP gross margin, operating margin and net income (loss), respectively. These non-GAAP measures are derived from the revenues of our product, maintenance and services business operations and the costs directly related to the generation of those revenues, such as cost of revenue, research and development, sales and marketing and general and administrative expenses, that management considers in evaluating our ongoing core operating performance. These non-GAAP measures exclude amortization of purchased intangible assets, merger and acquisition charges, special charges, equity plan-related compensation expenses and charges and gains which management does not consider reflective of our core operating business.

Purchased intangible assets consist primarily of purchased technology, backlog, trade names, customer relationships and employment agreements. Merger and acquisition charges represent in-process research

and development charges related to products in development that had not reached technological feasibility at the time of acquisition. Special charges consist of post-acquisition rebalance costs including severance and benefits, excess facilities and asset-related charges, and also include strategic reallocations or reductions of personnel resources. Equity plan-related compensation expenses represent the fair value of all share-based payments to employees, including grants of employee stock options, as required under SFAS No. 123 (revised 2004), "Share-Based Payment" (SFAS 123R). For purposes of comparability across other periods and against other companies in our industry, non-GAAP net income (loss) is adjusted by the amount of additional taxes or tax benefit that the company would accrue using a normalized effective tax rate applied to the non-GAAP results.

During the twelve months ended December 31, 2006, \$7.23 million of interest expense attributable to net retirement premiums and write-offs of debt issuance costs related to the refinancing of certain convertible debt was excluded as management does not consider this transaction a part of its core operating performance. During the twelve months ended December 31, 2006 and 2005, \$895 thousand and \$800 thousand of gain on investment earnout income was excluded, respectively. During the twelve months ended December 31, 2005, a \$4.75 million purchase of technology that had not yet reached technological feasibility, and a \$957 thousand gain on the sale of a building, were also excluded.

In certain instances our GAAP results of operations may not be profitable when our corresponding non-GAAP results are profitable or vice versa. The number of shares on which our non-GAAP EPS is calculated may therefore differ from the GAAP presentation due to the anti-dilutive effect of stock options in a loss situation.

Non-GAAP gross margin, operating margin and net income (loss) are supplemental measures of our performance that are not required by, or presented in accordance with, GAAP. Moreover, they should not be considered as an alternative to any performance measure derived in accordance with GAAP, or as an alternative to cash flow from operating activities or as a measure of our liquidity. We present non-GAAP gross margin, operating margin and net income (loss) because we consider them to be important supplemental measures of our operating performance and profitability trends, and because we believe they give investors useful information on period-to-period performance as evaluated by management.

Management excludes from its non-GAAP measures certain recurring items to facilitate its review of the comparability of the company's core operating performance on a period-to-period basis because such items are not related to the company's ongoing core operating performance as viewed by management. Management considers our core operating performance to be that which can be affected by our managers in any particular period through their management of the resources that affect our underlying revenue and profit generating operations during that period. Management uses this view of its operating performance for purposes of comparison with its business plan and individual operating budgets and allocation of resources. Additionally, when evaluating potential acquisitions, management excludes the items described above from its consideration of target performance and valuation. More specifically management adjusts for the excluded items for the following reasons:

Amortization charges for our purchased intangible assets are inconsistent in amount and frequency and are significantly impacted by the timing and magnitude of the company's acquisition transactions. We therefore consider our operating results without these charges when evaluating our core performance. Generally, the most significant impact to inter-period comparability of the company's net income (loss) is in the first twelve months following the acquisition.

Special charges are primarily severance related and are due to the company's reallocation or reduction of personnel resources driven by modifications of business strategy or business emphasis and by assimilation of acquired businesses. These costs are originated based on the particular facts and

CIMdata PLM Industry Summary

circumstances of business decisions and can vary in size. Special charges also include excess facility and asset-related restructuring charges. These charges are not specifically included in the company's annual operating plan and related budget due to the rapidly changing technology and competitive environment in our industry. We therefore exclude them when evaluating our managers' performance internally.

Merger and acquisition charges are in-process R&D charges, which are largely disregarded as acquisition decisions are made and which often result in charges that vary significantly in size and amount.

Management excludes these charges when evaluating the impact of an acquisition transaction and our ongoing performance.

Management supplementally considers performance without the impact of stock-based compensation charges and believes this information is useful to investors to compare our performance to prior periods before SFAS 123R and to the performance of other companies in our industry who present non-GAAP results adjusted to exclude stock compensation expense. We view stock-based compensation as a key element of our employee retention and long-term incentives, not as an expense that should be an element of evaluating core operations in any given period. We therefore exclude these charges for purposes of evaluating our core performance.

Income tax expense (benefit) is adjusted by the amount of additional tax expense or benefit that we would accrue if we used non-GAAP results instead of GAAP results in the calculation of our tax liability, taking into consideration the company's long-term tax structure. We use a normalized effective tax rate of 17%, which reflects the weighted average tax rate applicable under the various tax jurisdictions in which the company operates. This non-GAAP weighted average tax rate is subject to change over time for various reasons, including changes in the geographic business mix and changes in statutory tax rates. Our GAAP tax rate for the twelve months ended December 31, 2006, is 28%. This tax rate considers certain mandatory and other non-scalable tax costs which may adversely or beneficially affect the Company's tax rate depending upon the Company's level of profitability.

Non-GAAP net income (loss) also facilitates comparison with other companies in our industry, which use similar financial measures to supplement their GAAP results. However, non-GAAP net income (loss) has limitations as an analytical tool, and you should not consider this measure in isolation or as a substitute for analysis of our results as reported under GAAP. In the future the company expects to continue to incur expenses similar to the non-GAAP adjustments described above and exclusion of these items in our non-GAAP presentation should not be construed as an inference that these costs are unusual, infrequent or non-recurring. Some of the limitations in relying on non-GAAP net income (loss) are:

Amortization of purchased intangibles, though not directly affecting our current cash position, represents the loss in value as the technology in our industry evolves, is advanced or is replaced over time. The expense associated with this loss in value is not included in the non-GAAP net income (loss) presentation and therefore does not reflect the full economic effect of the ongoing cost of maintaining our current technological position in our competitive industry, which is addressed through our research and development program.

The company regularly engages in acquisition and assimilation activities as part of its ongoing business and therefore we will continue to experience special charges and merger and acquisition charges on a regular basis. These costs also directly impact available funds of the company.

The company's stock option and stock purchase plans are important components of our incentive compensation arrangements and will be reflected as expenses in our GAAP results for the foreseeable future under SFAS 123R.

The company's income tax expense (benefit) will be ultimately based on its GAAP taxable income and actual tax rates in effect, which often differ significantly from the 17% rate assumed in our non-GAAP presentation.

Other companies, including other companies in our industry, may calculate non-GAAP net income (loss) differently than we do, limiting its usefulness as a comparative measure.

Click [here](#) for full financials.

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Implementation Investments

Adelaide Pattern Cuts Production Time by 40% with WorkNC Auto 5

25 January 2007

For the past 17 years, Adelaide Pattern Tooling & Design in Australia has been producing patterns for the foundry industry. These are used to produce cast iron parts for rail systems and the automotive industry, including components such as exhaust manifolds, brake assemblies and rail shoulders. Seven years ago, the company migrated to CNC from hand patternmaking techniques, using 3-axis machines and a 5-axis Deckel Maho DMU 80T in 3-axis and 3+2 axis modes. However, the purchase of a Deckel Maho DMC105V Linear to provide extra capacity demanded the use of 5-axis continuous toolpaths to optimise the productivity of the machine.

Adelaide Pattern's existing CAM system was adequate for 3-axis toolpaths, so a replacement which would give them 5-axis machining as well had to be at least as good for 3-axis machining. The company evaluated WorkNC from CIM Solutions, [Sescoi](#)'s Australian reseller. Drazen Vincekovic, CAD Manager for Adelaide Pattern said, "We carried out a series of cutting trials to check ease of use, the function of tool and holder collision avoidance, the interface to our ProE and think3 CAD systems, and the quality of the technical support. The superiority of WorkNC was clear, giving us the confidence to select it as our preferred system." The company recognised the benefits of 5-axis machining which has enabled it to machine the steel or aluminium pattern directly, and eliminate the use of electrodes which makes a considerable cost saving.

The company has sufficient capacity to manufacture patterns up to 750mm x 650mm. These can comprise one part or as many as 20 smaller parts with runners and feeders all in one pattern. Designed mainly for use with the Disamatic vertical moulding machine they require a high quality finish. Drazen Vincekovic explained the use of WorkNC Auto 5, which automatically changes 3-axis toolpaths into 5-axis. "Generally, we start with a 40mm face cutter and High Torque Roughing, then we re-rough with a 16mm tipped cutter and a 10mm carbide, working our way down to 1mm with WorkNC's Contour Re-machining and Parallel Pencil Trace operations. We run all the toolpaths through Auto 5, which allows us to pick out walls 70-80mm high using the shortest possible cutters, tipping the tool in 5-axis to reach otherwise inaccessible areas of the job. We don't use any EDM tools now. Previously we would have used 10 or 20 electrodes on each pattern. This has resulted in a 40% time saving." To ensure the pattern

can be completely finished on the 5-axis machining centre, WorkNC defines areas which cannot be cut with the current tool and calculates the new minimum tool length required to reach all parts of the job.

The design of foundry patterns requires particular attention to draft angles. Faces can start at 1° and finish at 15° and the part can have narrow gaps between walls in some areas and wide gaps in others, with sharp direction changes. Drazen Vincekovic said, "WorkNC's Parallel Pencil Trace path is particularly good at removing sharp corners left by the direction changes. We also find the analysis functions in WorkNC-CAD very useful when checking draft angles. We can visualise how they are changing, and check that they will be sufficient for the foundry to reliably demould the sand castings - very important when volumes of 1 million are common."

Programming in 5-axis with Auto 5 is easier than programming in 3+2 and is a very important feature for Adelaide Pattern. Drazen Vincekovic said, "We can achieve better quality and a quicker turnaround which, we anticipate, will result in more work, as well as opportunities in other markets such as aerospace. For example a 300mm square x 100mm pattern which requires 50-70% of the material removed can be ordered on Friday and delivered on Monday." The reliability of WorkNC's toolpaths has contributed to the success. Drazen Vincekovic concluded, "We have confidence in WorkNC. We leave the machine running unmanned overnight and at weekends for periods of 15 to 20 hours. It has been the right choice for us, enabling us to produce patterns which we would have previously struggled to manufacture."

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Autodesk Announces Bosch Rexroth Canada as 2006 Inventor of the Year

31 January 2007

Autodesk, Inc. announced that Bosch Rexroth Canada, a leading provider of drive and control solutions, has been named by its peers as the Autodesk Inventor of the Year for 2006. The Inventor of the Month program began in January 2006 and recognizes the most innovative design and engineering advancements made by the extensive community of customers using Autodesk Inventor software. Autodesk community members were invited to log onto the Autodesk community web site (<http://mfgcommunity.autodesk.com/>) and vote for their favorite Inventor of the Month to become the 2006 Inventor of the Year.

"We are truly honored to be named the 2006 Inventor of the Year," said Jim Lambert C.E.T., the design engineering manager of the Hydraulic Business Unit of Bosch Rexroth Canada. "It is especially rewarding to be recognized for our achievements by the Autodesk community -- one of the largest online manufacturing engineering communities in the industry."

Bosch Rexroth Canada relied on Autodesk Inventor software while modernizing the canal locks of the busiest waterway in North America, the St. Lawrence Seaway's Welland Canal. By using Inventor software, the company was able to design all-new hydraulic systems for the canal in 3D, resulting in dramatic reductions in design time and drawing errors.

"Adding the power of 3D to its design processes has allowed Bosch Rexroth Canada to successfully tackle even the most challenging and complex projects," said Robert "Buzz" Kross, vice president of Autodesk Manufacturing Solutions. "It is a pleasure to name them as the Inventor of the Year for 2006."

To read more about each candidate for Inventor of the Year 2006 or to nominate an Inventor of the Month, please visit <http://mfgcommunity.autodesk.com/>. For more information on Autodesk Inventor of the Month, contact us at IOM@autodesk.com.

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Bandspeed Optimizes Packaging, Power With Sequence's PowerTheater

30 January 2007

[Sequence Design](#) announced [Bandspeed](#), a leading developer of mass-market Wi-Fi solutions, has chosen PowerTheater to reduce power in the next generation of Bandspeed's sophisticated 90nm AirMaestro SoC, thereby hitting aggressive power-management and package targets.

PowerTheater gives Bandspeed multiple tools for power analysis and reduction, including architectural analysis, clock-power reduction, modal analysis, and multi-Vt and voltage island support. Most importantly though, according to Bandspeed president and CEO Bill Eversole, Sequence's RTL power analysis gives designers the right information at a high level so they can make appropriate power and packaging tradeoffs.

"Early estimates are key here," Eversole said. "PowerTheater lets us make package decisions at a high level, leading to a superior product and faster time to market."

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Bechtel Tackles One of Its Most Challenging Projects With Help of Bentley's ProjectWise; Refinery Project in India Has Plot Plan Bigger Than That of London and Timescale of Less Than 36 Months

29 January 2007

Bechtel Corporation is using Bentley's ProjectWise system to collaborate on the Jamnagar Export Refinery Project (JERP) in India. In both scope and complexity, the project rivals many of Bechtel's previous exceptional accomplishments, including Hoover Dam, the Channel Tunnel, and the Trans-Alaska Pipeline. JERP has a plot plan bigger than that of London and a target completion time of less than 36 months.

Bechtel is tackling this megaproject using engineering resources dispersed around the globe, including a design and engineering team of 2500 professionals in 10 design locations, 19 offices, and eight countries. In total, the project will employ more than 90,000 people during construction and call for the fabrication

and installation of 109,170 metric tons of steel, about five million meters of varied size pipe, more than 4000 pieces of major equipment, and more than 110,000 isometrics.

Connecting People and Information Across the Enterprise

To successfully complete a project this vast in scope and widely distributed in so little time, Bechtel knew it would need unprecedented network connectivity, document access, and document control. The collaboration solution Bechtel selected for its 2D CAD file management was Bentley's ProjectWise.

As described by Bechtel senior project personnel, "In our decentralized model, technology that supports work sharing is absolutely vital. The business must be able to reliably move attached pieces of work around the globe. Different pieces of engineering must be integrated and linked seamlessly, even though the work is occurring in multiple locations. ProjectWise helps make this possible."

Nearly 1000 users in nine locations are employing ProjectWise to ensure that more than 50,000 drawings are available to the correct discipline at the correct location. With ProjectWise, the drawings can be worked on collaboratively, enabling designers in one location to view the results of design teams in other offices almost immediately. This means Bechtel can rapidly distribute the project work to the different locations in a much more granular way – by unit, by discipline, and even by drawing – as the needs of the project dictate.

A key advantage realized by the project team is the ability to search for and find all files that were changed in the last week, and to cross reference the location of the files found with the location of the person who last changed them. This enables the JERP team to regularly reassess and redistribute their project content, optimizing productivity and reducing network traffic.

Joe Croser, global marketing director, Bentley platform products, commented, "This application of knowledge gained through querying a document's history enables Bechtel's team to redistribute the content to 'follow the skill' as the design process iterates towards construction."

Data Reuse an Added Benefit

JERP is an expansion of the refinery that Bechtel built some 10 years ago for Reliance Industries. Once completed, this new project will roughly double the size of the original Reliance Industries site, creating the world's largest refinery complex.

Using ProjectWise to track and manage data, Bechtel has been able to facilitate the reuse of more than 25 percent of the design and engineering information generated during construction of the original facilities. This has proved to be critically important in meeting the project's aggressive timescale.

In addition, [Bechtel](#) has been able to use ProjectWise to coordinate and collaborate with Reliance Industries on the procurement of equipment and systems for the new facilities that match, as closely as possible, the equipment and systems used in the existing refinery. In many cases, reengineering has been

required, which ProjectWise has also facilitated. The end result has been major time and money savings during construction, with significant and continued savings anticipated during operations.

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Cadence Enables Silicon & Software Systems to Design Record-Breaking Low-Power Chip

30 January 2007

Cadence Design Systems, Inc. announced that Silicon & Software Systems Ltd. ([S3](#)) achieved record-breaking production success for a chip designed at S3's facilities, using the company's nanoflowLP® low-power system-on-chip (SoC) design flow based on the Cadence® Low-Power Solution.

S3 used a range of low-power design techniques such as multi-Vt libraries, power islands, power estimation and low-power verification for this chip, intended for mobile audio applications. The chip booted correctly the first time in a portable computer application within 24 hours of wafers arriving from the foundry and consumed only 85 percent power of the original power budget target set by the customer.

The Cadence Low-Power Solution integrates design, verification, and implementation technology with the Si2 Common Power Format (CPF), a standardized format for specifying power-saving techniques early in the design process, to deliver an end-to-end low-power design solution to IC engineers. By preserving low-power design intent throughout the design, the solution eliminates laborious manual work, greatly reduces power-related chip failure, and provides power predictability early in the design process. This holistic approach to addressing the low-power challenge is necessary for managing power consumption in 90-nanometer and 65-nanometer designs.

"With the [Cadence](#) Low-Power Solution we were able to optimize our nanoflowLP and leverage our strong engineering expertise and experience," said Dermot Barry, general manager, System IC Business Unit, S3. "As a result, our customers achieve right-first-time silicon and reduced time to revenue. With the latest low-power optimized flow from Cadence we can now meet the high expectations of our customers."

"We applaud S3's ability to deliver another customer success based on our extensive low-power flow-development partnership. The exciting technology advancement by the Cadence Low-Power Solution, based on the Common Power Format, brings a new level of automation to the ever challenging low-power designs at deep sub-micron nodes," said Dr. Chi-Ping Hsu, corporate vice president, IC Digital and Power Forward at Cadence. "S3's ability to incorporate the latest low-power techniques and deliver fast turn-around times means that lowest cost SoCs can be achieved with minimal risk or compromise on performance."

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Cadence Helps Jennic Tape Out Leading-Edge ZigBee IC; Reducing Chip Area and Power Usage

31 January 2007

Cadence Design Systems, Inc. announced that Jennic Ltd., a fabless developer of wireless-connectivity solutions, has successfully taped out an embedded ZigBee IC wireless microcontroller with the Cadence® Low-Power Solution. The Cadence low-power technology combines RTL synthesis, silicon virtual prototyping, and full-chip implementation from RTL-to-GDSII.

The use of the Cadence Low-Power Solution minimized design-implementation time and improved design quality enabling Jennic to achieve a 30-percent reduction in silicon area and a significant decrease in power consumption for its latest embedded microcontroller device.

"We needed a solution that would help us reduce area and power and also had to be more cost effective than our first generation devices," said Jim Lindop, CEO of Jennic. In Cadence we found a trusted partner who has helped us realize the key characteristics of our ZigBee microcontroller, and above all enabled us to reduce our manufacturing costs."

The [Cadence](#) Low-Power Solution integrates leading-edge design, verification, and implementation technology with the Common Power Format (CPF), an Si2 format for specifying power-saving techniques early in the design process, to deliver an end-to-end low-power design solution to IC engineers. By preserving low-power design intent throughout the design, the solution eliminates laborious manual work, greatly reduces power-related chip failure, and provides power predictability early in the design process. This holistic approach to addressing the low-power challenge is necessary for managing power consumption in 90-nanometer and 65-nanometer designs.

"We are delighted that we could help Jennic reduce area, power and predictability, and as a result we have been selected as their partner of choice," said Sean Redmond, vice president of sales, EMEA at Cadence. "It is not only crucial to reduce power consumption in today's ZigBee devices but also to lower costs. The Cadence Low-Power Solution delivers results and enables our customers to achieve the highest quality and to get to market faster and stay competitive."

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Carollo Engineers Wins 2006 BE Award

30 January 2007

Carollo Engineers, P.C., an Engineering News-Record Top 100 Design Firm specializing in the planning, design, and construction of water and wastewater facilities, has won a 2006 BE Award in the Plant category. The award recognizes the first-time user of Bentley software that most effectively adapts to the new, more efficient workflows enabled by the technology.

CIMdata PLM Industry Summary

In 2005, after four years of product testing and evaluation, Carollo Engineers converted its 2D Autodesk-based production systems to Bentley's 3D DigitalPlant solutions. With its users fully experienced in Bentley's 2D design tools based on MicroStation, Carollo Engineers expects a significant reduction in hours required to produce drawings, as compared to producing the same drawings using AutoCAD.

Using Bentley's 3D design tools, the savings in engineering hours to produce drawings from the models will be even greater, helping Carollo Engineers offset rising labor costs. In addition, the use of 3D models enables Carollo Engineers to better communicate designs to its clients using Bentley's visualization tools.

To make the transition to its new technology as easy as possible and realize maximum gains from its use, Carollo Engineers developed a comprehensive training strategy. To keep costs down and facilitate training across the firm's technical staff, Carollo Engineers joined the Bentley Enterprise Training Subscription (ETS) program. Bentley's ETS provides organizations with unlimited access to professional training on Bentley software for a fixed annual fee.

Once Carollo Engineers' phased staff training was underway, the benefits of the 3D software were quickly attained. Said Shaun Severin, CAD manager for Carollo Engineers, "Since moving projects to 3D MicroStation-based products, we have realized increased productivity and overall higher quality of our construction documents."

The use of 3D models allows the firm to visualize its projects as it completes its design work. Because conflicts can be seen immediately, they can be resolved before construction, saving time and money. At the same time, the conversion to 3D models is helping the firm streamline all of its drawing production processes.

Said Severin, "We made the decision to go with Bentley software based on the critical need for our plant design products to work together in unison. Because we are a multidisciplined firm, it is vital that all elements of any given structure communicate with all of the other elements. Bentley's DigitalPlant products have delivered this for us, providing the ability to share information among disciplines, but still allowing the disciplines to operate independently of each other."

Because of the firm's workflow, many of its projects are shared across the enterprise. In some cases, this means a project may be worked on in as many as five or six offices. To streamline this workflow, Carollo Engineers selected ProjectWise as its enterprise document management system. ProjectWise makes it easier and faster for the firm's engineers to find, manage, and share information.

Because [Carollo](#) Engineers uses a shared database with PlantSpace Piping and PlantSpace P&ID, project elements can be managed more effectively. For example, equipment numbers can be shared, as can pipe specifications. This allows the firm to better manage changes as they occur.

For more information about Carollo Engineers' winning project and all of the other 2006 BE Award projects, visit <http://www.be.org/awards>. For more information on the Bentley products used in this project, visit <http://www.bentley.com/plant>.

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Catalog Data Solutions Adopted by Accurate Screw Machine

30 January 2007

Catalog Data Solutions ([CDS](#)) announced that [Accurate Screw Machine](#) has adopted its CAD model download and ecommerce solutions.

Accurate Screw Machine is a manufacturer of electronic hardware and fasteners specializing in JIT delivery of the following product categories: bushings, captive screws, captive screw assemblies, handles, ferrules, locking fasteners, nuts, retainers, screws, self-locking devices, spacers, springs, standoffs, adapters, studs, security screws & washers.

Responding to customer requests for CAD models of its products, Accurate Screw Machine decided to offer 3D CAD models of fasteners for download from its web site. "We wanted to meet our customers request for a CAD download service to save them time," said Scott Solomon, General Manager, Accurate Screw Machine. "With the addition of 2D/3D CAD drawings to our website, we are meeting that need and we are expecting a resulting increase in sales as a result."

"We are delighted to have been selected by Accurate Screw Machine for our leading online CAD model download solution, lead tracking system and affordable CAD services", said John Major, CEO Catalog Data Solutions, "online 3D models are an important sales and marketing tool for all industrial suppliers and distributors. With many customers moving from 2D to 3D CAD systems, providing online 3D CAD model downloads often 'locks' products into a design so suppliers later benefit from the sales success of that design. Suppliers without 3D models on their website are at risk of losing customers to their competition who do offer 3D models".

Studies show that over 90% of designers and engineers now use the Internet to locate components for their new designs. Catalog Data Solutions helps industrial suppliers and distributors grow sales and strengthen customer loyalty through interactive online catalogs, ecommerce, 3D CAD model delivery and product configurator solutions.

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Delcam's PowerINSPECT Turns a Problem into an Opportunity

31 January 2007

A portable coordinate measuring machine from CimCore and Delcam's PowerINSPECT inspection software allowed Townley Engineering & Manufacturing Co. Inc. from Candler, Florida, to turn a problem with quality and service life into a competitive advantage for the company.

Townley is a manufacturer of replacement bearing assemblies for "matrix" pumps used in mining. The shock and vibration from chunks of rock in the pumped mixture makes for a harsh environment for pump bearings.

The company began to encounter unexpected wear in its UBD Matrix line of pump assembly bearings in 2002. "By 2004, bearings for as many as one pump in five suffered a failure," remembered Townley's Quality Assurance Manager, Howard Record. "Some failed after just one month's service."

Careful dimensional measurement with the CimCore arm and PowerINSPECT quickly pinpointed the causes as being problems with concentricity, perpendicularity and bore diameters of the bearing housings supplied by a contract machining company. The supplier's management quickly found that these inaccuracies were the result of an out-of-calibration horizontal machining centre used to machine housing bores and were soon able to resolve them.

Mr. Record found PowerINSPECT so easy to run that he and Inspector Russell Hill had the system working on the first day they used it. They traced the bearing housing problems with what they learned in a day and a half of demonstrations by Bob Neshta of SunCoast Precision, the local CimCore and Delcam distributor. "We over-nighted the first inspection results and our new dimensions to the machine shops," Mr. Record said, "and got better housings from them almost immediately." As a result, the system "paid for itself very fast – in two weeks," Mr. Record said, based on the warranty cost of replacing a failed bearing assembly.

The portability of the arm lets Townley employees bring the entire inspection system right to the bearing housing, or any other large workpiece. After machining, the cast iron housings weigh about 1,000 pounds. "Because of the size and weight of the housings, the simplicity of setting up and repositioning the arm pays big dividends," Mr. Record said.

Townley's suppliers of machined components now check dimensions on all their parts before they are shipped, but Townley takes no chances. "To give us the confidence to warranty our products to our mining customers, we inspect the housings and we inspect the final assembly," Mr. Record said.

"With the CimCore arm and PowerINSPECT, we give our customers the best product in the industry," Mr. Record concluded. "This leads to greater customer confidence, which leads to more sales."

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Dutton Simulation Significantly Extends Honda of the UK Manufacturing Ltd's (HUM) Formed Part Evaluation Process

20 January 2007

After evaluating several options, Honda of the UK Manufacturing Ltd (HUM) chose Forming Technologies' COSTOPTIMIZER, supplied by Dutton Simulation, to generate flat blank patterns and nesting layouts from 3D CAD models of its formed parts. This assisted in obtaining accurate piece costs

for the vehicle through efficient material utilisation within the manufacture of all its stamped parts. Particularly relevant to HUM was the software's speed and ease of use. Additionally, it found that the software produced a very close estimation of blank size and had powerful nesting capabilities which enabled it to optimise its material consumption. Trevor Dutton, Managing Director of Dutton Simulation said, "We are very excited to be working with HUM. They have demonstrated that COSTOPTIMIZER can pay for itself many times over through accurate evaluation of the manufacturing options for formed parts."

COSTOPTIMIZER is able to import CAD models and uses finite element analysis techniques to develop a flat blank. The software also highlights potential formability problem areas through a thickness distribution plot, so that users can make an informed decision about tool design and manufacturing methods. Additionally, the developed blanks can be nested, with the ability to add extra material for the draw die allowance and the cut and carry allowance required for progression tools. The resulting nest layout can then be edited by deliberately overlapping parts or reducing coil width to highlight product changes which will reduce overall material cost. Before the introduction of COSTOPTIMIZER, blank development necessitated many tedious calculations and was mainly limited to folded parts, making it very difficult to verify material sizes suggested by suppliers.

With COSTOPTIMIZER HUM can now use the results it has obtained for blank developments and nests to discuss the technical merits of different manufacturing strategies with its suppliers and toolmakers. For example, different nesting strategies can reduce the coil width and also the overall size of the stamping tool, making savings in both material and tooling costs. Furthermore, an analysis of the manufacturing options helps the company to identify avenues for potential future savings.

By combining flat pattern development with the nesting in COSTOPTIMIZER, HUM can examine different options, considering one part or two parts per blow, mirrored nesting, and part edge bridging so that it can make value judgments about component orientation, tool complexity, and the most economic strip size. In some instances the result may be a more complex tool layout than originally anticipated, but combined with improved material utilisation during production the company can still arrive at a net cost saving.

The level of support provided by Dutton Simulation has been of significant benefit to HUM, helping it to resolve any software or usage related issues. In addition, Dutton Simulation's close relationship with FTI has enabled it to pass on requests for software enhancements, some of which have already been implemented in the latest releases of COSTOPTIMIZER. HUM aims to maximise the effectiveness of the software by targeting larger and higher value pressings and it clearly recognises the advantages to be gained from extending its application. Most of the company's parts are formed rather than folded. The old methods were laborious and inaccurate. COSTOPTIMIZER has significantly increased the scope of what it can successfully analyse and evaluate. Trevor Dutton concluded, "By working in partnership with HUM we will be able to help them gain further advantages from their investment through enhancement of the software's capabilities, and assistance with the more diverse and complex applications they intend to implement."

About Dutton Simulation

[Dutton Simulation](#), founded by Trevor Dutton works in partnership with its customers to resolve complex metal forming problems. It offers the latest computing methods to simulate metal formability from Forming Technologies Inc and Engineering Technology Associates for cost estimating, part design feasibility, and press tool simulation. The company also offers a consultancy service and range of training courses to enable users to understand both the fundamental and advanced elements of formability analysis.

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Federal-Mogul Standardizes On PTC Windchill® To Achieve Strategic Business Initiatives

29 January 2007

[PTC](#) announced that Federal-Mogul Corporation, a global supplier of automotive components, systems and modules for original equipment manufacturers and the aftermarket, has adopted Windchill PDMLink® and Windchill ProjectLink™ for strategic product lifecycle management (PLM). Windchill, the PTC content and process management solution, enables collaborative product development while helping companies control data and processes. As a long-time user of PTC's Pro/ENGINEER®, the selection of Windchill extends Federal-Mogul's existing relationship with PTC and enables them to realize the value from an integral product development system.

Driven by increasing customer requirements, a globally distributed supply chain, and a focus on improving the quality of project launches, Federal-Mogul required a PLM solution that would enable it to accelerate time-to-market without compromising quality and innovation. Additionally, the company required a solution that would allow it to centralize internal applications on a single system while providing the flexibility to support the heterogeneous CAD environments of its automotive OEM customers.

With the selection of Windchill, Federal-Mogul decided to standardize on the PTC Product Development System to address these challenges and support its strategic business initiatives for product quality, time-to-market, and innovation. "Federal-Mogul is growing on a global basis and the need for strong internal and customer collaboration grows with it. By adopting Windchill as a common software platform capable of integrating with the range of product design systems used by our customers, we will be able to harmonize our internal processes and adopt best practice while retaining the flexibility to meet all our customers' needs," said Huw Pegler, Engineering IS Director, Federal-Mogul. "By strengthening our program management processes using PTC's Windchill, we expect to achieve significant performance improvements in our product development process, resulting in faster time-to-market and increased competitive advantage."

"Optimizing product development processes in a globally distributed environment is a common challenge for today's manufacturing companies," said Martin Walters, director, product and market strategy, [PTC](#). "Windchill provides a superior solution for managing complex data in this environment and enables effective collaboration, allowing companies like Federal-Mogul to reap tangible benefits from their technology investment."

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Freescale Uses Cadence Analog Mixed Signal Kit to Speed Up Flow Development

31 January 2007

Cadence Design Systems, Inc. announced that the Cadence® Analog Mixed Signal (AMS) Methodology Kit has been adopted by Freescale Semiconductor, a global leader in the design and manufacture of embedded semiconductors for the wireless, networking, automotive, consumer and industrial markets. Freescale has adopted the AMS Methodology Kit to leverage key capabilities of advanced AMS technologies, flows, and methodologies. By using the Cadence Kit as their baseline methodology, Freescale can more quickly capture and globally deploy, internally developed world-class design flow capabilities.

"The [Cadence](#) AMS Methodology Kit will give us the opportunity to apply proven and tested mixed-signal design examples to some of the complex problems we encounter when integrating analog and digital circuits into an IC," said Ross Hirschi, director of Methodology and Flow Development at Freescale Semiconductor. "We anticipate that the verified methodologies within this Cadence Kit will help us document and deploy leading-edge mixed-signal methodologies at higher level of productivity than before."

"Cadence is extremely pleased to be working with Freescale and providing them with the AMS Methodology Kit to speed up their flow development," said Ajay Malhotra, senior vice president of Marketing at Cadence. "Cadence continues to put significant investment behind our Kits strategy in an effort to support our customers in their pursuit of a more efficient solution to today's design challenges."

Cadence kits enable IC designers to accelerate technology-specific product development. Cadence Kits address design challenges in EDA technology segments such as AMS, Silicon-in-Package (SiP), coverage-driven functional verification, and Radio Frequency Integrated Circuit (RFIC) applications by combining verified methodologies and flows, demonstrated on a segment-representative design and packaged with Applicability Consulting. By using Cadence kits, customers can focus more of their design resources on design differentiation rather than developing design infrastructure.

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Grenland Group Selects Intergraph

30 January 2007

[Intergraph Corporation](#) announced Grenland Group ASA has selected Intergraph's SmartPlant Enterprise suite of plant design and information management solutions. Norway-based Grenland Group provides engineering, procurement and construction services to offshore marine oil operators and shipyards, specializing in drill ship, floating production, storage and offloading, and process plant design and construction.

SmartPlant Enterprise will be deployed enterprise-wide, across Grenland Group locations in Norway, the United States, and Malaysia. The applications will be employed in the execution of a range of oil and gas projects, for both onshore and offshore operations. As a result, Grenland Group will be empowered to execute projects more quickly and with improved data quality.

“After careful evaluation, we concluded that the integrated SmartPlant Enterprise suite is unmatched by any other offering in the industry,” said Bjørn C. Anker, executive vice president of Grenland Technology AS. “Grenland Group is going through a rapid growth and we have a continued focus on improving our inter discipline work processes. The tools we are now licensing from Intergraph will help us and our clients reach our targets for reducing project execution time and ultimately total installed cost.”

“[Grenland Group](#) has worked with Intergraph for several years, and we are pleased that the organization has chosen to take the next step with SmartPlant Enterprise. Grenland Group’s selection of the SmartPlant suite demonstrates Intergraph’s continued adoption in the oil and gas sector, including Scandinavia,” stated Phillippe Marceau, executive vice president of Intergraph Process, Power & Marine EMEA. “SmartPlant Enterprise streamlines the workflow from the feed phase, to design, through construction and handover. Intergraph’s continued investment in integrated, best of breed engineering solutions is delivering efficiency and cost-effective projects for our customers.”

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GS Engineering & Construction Becomes First Bentley Enterprise License Subscriber in Korea

30 January 2007

Bentley Systems, Incorporated announced that [GS Engineering & Construction Corporation](#), a leading civil, architectural, and environmental engineering company based in South Korea, has joined Bentley’s Enterprise License Subscription (ELS) program.

Said Mr. Yong-Joon Lee, engineering IT team manager for GS Engineering & Construction, “GS Engineering & Construction has made remarkable strides in the fields of architecture, civil engineering, housing, and plant. We’re pleased with our progress and will continue to aggressively pursue our goal of becoming No. 1 in our field across Asia. We’ll achieve this by providing creative solutions that maximize the value of space. This will require the best people, policies, and technology solutions. Our new Bentley ELS will give us ready access to the latter, and make it easier for us to use the advanced software solutions that are a best-fit with our clients’ individual requirements and preferences.”

The Bentley ELS program grants organizations unlimited access to the entire ELS software portfolio for a fixed annual fee. The portfolio covers all the architectural, engineering, and construction (AEC) and geospatial software needs of subscribers, providing building, plant, civil, and geospatial solutions and supporting a managed environment for their AEC and geospatial IT.

The total coverage at a fixed, discounted price means that organizations can increase their software productivity and reduce their total AEC and geospatial software costs simultaneously. The unlimited access streamlines AEC and geospatial software administration while the annual term simplifies budgeting and accounting.

Immediately, the [Bentley](#) ELS will give GS Engineering & Construction a quick, cost-effective way to offer its clients creative technical alternatives and solutions for all projects.

As a strategic benefit, the Bentley ELS helps organizations such as GS Engineering & Construction become more agile. Project starts can happen faster and teams can reconfigure more quickly for new opportunities. No-charge pilots allow new technology to be infused into projects more readily. ELS agreements can include partners, extending the agility and multiplying the benefits in global projects.

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IFS Chosen to Supply Maintenance System for Neste Oil's Refineries

1 February 2007

IFS has secured a contract in Finland to supply the enterprise asset management system for Neste Oil's refineries in Porvoo and Naantali. The system will be used to supervise production line maintenance, manage resources and material flows, track costs and support operation planning. The contract was secured in January 2007 and is valued at €2.0 million.

The system implementation is a part of a wider revamp of Neste Oil's operating procedures and will result in increased profitability and agility. The overall uptime of the production facility is expected to increase as preventive and predictive maintenance are optimized. Implementing IFS Applications will bring greater transparency of the actual plant status and better planning tools. It will also provide a refined methodology covering complete enterprise asset management, focusing on reliability, safety and overall equipment effectiveness.

"IFS Applications will facilitate production management and the monitoring of equipment status to secure overall effectiveness and good cost control," said Leo Rautanen, Manager of Maintenance Department in Neste Oil. "We can be better prepared for possible disruptions and critical malfunctions. We will also be able to monitor projects in real time."

The process industry is one of IFS' seven targeted markets. IFS provides industry-specific functionality for enterprises in chemicals, food and beverage, pulp and paper, and metals segments. IFS Applications for enterprise asset management in the chemical industry provides support for all critical processes, including RCM (reliability centered maintenance), OEE (overall equipment effectiveness), plant design and re-design, maintenance management and standardized real time automation integration based on open standards. The IFS Applications suite includes a complete asset as well as product lifecycle management solution.

[IFS](#) customers in the chemical industry include DuPont, Jotun, Flint Group, Willamette Valley Company, Akzo Nobel and Becker Industrial Coatings. Other IFS process industry customers include Pepsi, Iams, V&S Absolut Spirits, SSAB, Hutmen, Holmen Paper and SCA Graphics.

About Neste Oil Corporation

Neste Oil Corporation is a refining and marketing company focusing on advanced, clean traffic fuels. Neste Oil had net sales of EUR 9,974 million for the year ended December 31, 2005. As of December 31, 2005, it had 4,486 employees. Neste Oil's shares are quoted on the Helsinki Stock Exchange.

Neste Oil has four divisions: Oil Refining, Components, Oil Retail and Shipping. Activities cover the refining and marketing of oil, Shipping and Engineering services. Main products are gasolines, diesel fuels, aviation fuels, marine fuels, heating oils, heavy fuel oils, base oils, lubricants, traffic fuel components, solvents, LPGs and bitumen.

Neste Oil's Porvoo and Naantali refineries have a combined refining capacity of about 14 million tonnes a year. In 2005, Neste Oil supplied 7.5 million tonnes of petroleum products to Finland and exported 5.6 million tonnes. Neste Oil has some 900 Neste service stations, diesel fuel outlets and other sales points in Finland, and some 220 Neste stations and outlets and diesel fuel outlets in the Baltic states, Russia and Poland. In 2005, retail sales of main oil products totaled 4,100 thousand cubic meters. Neste Oil's fleet comprises about 30 tankers plus tug boats and barges.

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Intergraph Powers Eskom with SmartPlant Enterprise

31 January 2007

[Intergraph Corporation](#) announced [Eskom Holdings Ltd.](#) has selected SmartPlant® Enterprise as the core software suite to support its development of new power plant facilities. Working with Intergraph Systems South Africa, Eskom is implementing SmartPlant, including SmartPlant 3D, to facilitate the building of new electricity capacity to meet the increasing demands on South Africa's national power grid.

With more than 3.3 million customers, Eskom generates, transmits, and distributes electricity to industrial, mining, commercial, agricultural, redistributors, and residential customers; it also manages the purchase and sale of electricity to and from the Southern African Development Community Countries. SmartPlant Enterprise will provide Eskom with a comprehensive, customized offering, including tools for plant engineering, electrical, piping and instrumentation diagramming. SmartPlant will enable Eskom to respond quickly to demand, efficiently supplying power to its growing consumer base.

“Intergraph's SmartPlant solution, particularly SmartPlant 3D, will allow us to increase our productivity through greater efficiencies among our internal and external engineering teams,” commented Clive le Roux, General Manager Engineering, Eskom Enterprises Division. “As our engineering organization is more nimble, we may rapidly move to build South Africa's powerbase for suitable growth and development.”

“SmartPlant Enterprise drives increased value from IT in order to improve project execution, handover, and plant operational efficiency. Eskom will benefit from access to high quality and consistent engineering data,” stated Gerhard Sallinger, president of Intergraph Process, Power & Marine. “Eskom is one of the first African utilities to adopt Intergraph's world-class capabilities and solutions, and it is

counted among the leading global organizations that have adopted our technology. We are pleased SmartPlant was selected as the standard solution facilitating the building of new capacity for Eskom.”

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Schneider Electric Optimizes Its Global Product Development Processes With PTC Product Development System; Leading French Manufacturer of Power & Control Equipment Partners with PTC Global Services to Quickly Realize Value from Its Single PLM Platform Strategy

30 January 2007

PTC announced that the world’s leading power and control specialist Schneider Electric selected PTC as its technology and services partner to improve the efficiency of its globally distributed product development processes. Schneider Electric’s strategic business initiative includes the shift to a single Product Lifecycle Management (PLM) platform powered by PTC Windchill and the deployment of processes to support key product development strategies such as product modularization and the implementation of a Web-based IT architecture in a distributed engineering environment. As a result, Schneider Electric chose PTC Global Services as the preferred partner to realize a fast roll-out and a return on investment for the PTC Product Development System (PDS) including Pro/ENGINEER and Windchill.

“PTC is not only delivering best-in-class technology for our global PLM initiative but has also proven to be a important service partner for implementing and optimizing its solutions, based on a clear implementation roadmap,” said Michel Catry, EIS Manager, Schneider Electric. “The fast roll-out of a single and integral Product Development System will substantially support our organic growth and the capability to cooperate with Global Competency Centers based in Mexico, India and China.”

[Schneider Electric](#) has launched a global product development initiative to reduce time to market for new products while lowering product development costs. As a single, Web-based technology platform, the [PTC](#) Product Development System implemented by the Global Services team is well suited to support these initiatives and lower the total cost of ownership for Schneider Electric’s Research & Development IT infrastructure. The new PLM backbone will enable Schneider Electric’s global product development teams to work with common methods and processes, and share and reuse mechanical, electrical and software information more efficiently to free up product development capacity. The PDS replaces existing legacy systems in different departments and allows Schneider Electric to keep a single source of all relevant information, which can be shared internally and externally throughout the extended enterprise, including the suppliers, partners and distributed technical centers in China, India and Mexico. The overall change process is managed in Windchill PDMLink, and the exchange of information with participants both inside and outside the company is provided by Windchill ProjectLink in a seamless, integral change management environment.

“The power and control industry is under significant competitive pressure to reduce cycle times and costs by sharing and reusing more mechanical, electrical and software data on a global scale,” said Barry Cohen, Ph.D., executive vice president, Strategic Services and Partners, PTC. “This requires a Web-

based PLM infrastructure which can be easily rolled out on a global scale, but it also requires a deep knowledge about the product development process. Schneider Electric's decision to partner with PTC demonstrates that we are providing leading technology combined with the services expertise to help our customers realize long lasting business value."

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Shanghai Electric Group Awards Top Honors in SolidWorks Design Competition

29 January 2007

A seven-month competition between 270 product designers and 42 subsidiaries of \$3.7 billion Chinese electrical equipment company Shanghai Electric Group has concluded with the company awarding top honors to one of its subsidiaries that used SolidWorks® software to design a complicated steam turbine component, SolidWorks Corporation announced today. The contest concluded a year that saw Shanghai Electric adopt SolidWorks software as its standard 3D CAD solution.

The Shanghai Electric subsidiary won the competition for its design of a 600 megawatt supercritical steam turbine reheat valve series. The company organized the contest to give its technical staff an opportunity to hone their skills on SolidWorks software.

"The SolidWorks 3D Design Contest helped Shanghai Electric Group create an environment that encourages innovation," said Shanghai Electric CEO Huang Dinan. "It took us to a higher level by giving our employees realistic challenges, which in the end enhanced their ability to use the software to its greatest potential."

In addition to improving employee skills, the contest's goals were to study and improve existing production processes to promote innovation, and to raise the company's overall design technology proficiency.

"The SolidWorks contest's success embodies the spirit of teamwork we've developed at Shanghai Electric," said Zhou Shanhu, president of Shanghai Electromechanical Labor Union and vice director of the contest organization committee. "The contest not only provided a showcase for our design skills, it contributed to an environment that promotes collaboration and cooperation between different design teams."

Shanghai Electric purchased over 100 SolidWorks licenses for its engineering academy and design teams, which develop products ranging from elevators to fossil fuel generators. SolidWorks software is part of Shanghai Electric's efforts to strengthen its market leadership through faster product development, cost reduction, and information sharing between design groups. The company will acquire additional SolidWorks licenses as part of a multi-year strategy to make SolidWorks the preferred 3D CAD platform.

Shanghai Electric Group has subsidiaries operating in 10 industries, including power generation, transmission and distribution, electromechanical integration equipment, transport equipment, and environmental protection. Its air conditioners, package and print machines, fossil fuel generators, and elevators are the top sellers in their markets. While two Shanghai Electric subsidiaries have used SolidWorks for three years, the rest of the company is now standardizing on the 3D CAD software to further grow market share.

[SolidWorks](#) will work with Shanghai Electric Group to continue developing comprehensive training programs so engineers can quickly learn how to model and develop specialized parts, component libraries, and other tools aimed at streamlining the entire design process. SolidWorks will coordinate a “train the trainer” program to teach key engineers who will train engineers at the company’s subsidiaries.

“Shanghai Electric is one of the largest manufacturers in one of the fastest growing markets in the world,” said SolidWorks Chief Operating Officer Jeff Ray. “Standardizing on SolidWorks gives it the power to dramatically reduce design time and costs while exploring new design options to meet its customers’ needs and continue to grow.”

[Shanghai Electric Group](#) relies on authorized SolidWorks reseller Sino Consultant for ongoing software training, implementation, and support.

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Shibaura Institute of Technology Selects Bentley’s BE Careers Network Program

31 January 2007

Bentley Systems, Incorporated announced that [Shibaura Institute of Technology](#), a leading engineering university in Tokyo, has selected the [BE Careers Network](#) program to help its students graduate with market-ready technology skills.

Said Professor Yoichi Itai, Department of Architecture and Environment Systems, College of Systems Engineering, Shibaura Institute of Technology, “3D object CAD has been widely used for some time in the machinery and automotive industries and is now rapidly gaining popularity in the architectural community. At Shibaura Institute of Technology, we also have changed our thinking regarding CAD systems and are introducing our students to 3D object CAD systems from three different CAD vendors.

“For example, I have started several architectural design classes that incorporate 3D object CAD techniques. In these classes, students are shown how they can use the flexibility of 3D object CAD to simulate the process of creating actual models to design space. The purpose of this class is to develop the students’ innate ability to think and create in 3D, and to free them from the limitations imposed by relying solely on 2D CAD techniques. The response from our students has been quite good.”

Continued Itai, “The students have mainly been using Bentley Architecture in these classes, and also work with a variety of other Bentley software in my laboratory. The students are free to choose from the wide selection, all made possible through the BE Careers Network program.”

Added Professor Hisashi Fujii, who uses Bentley products in his facility CAD class for the Department of Electrical Systems for Urban Engineering, College of Engineering, “In my class, I have had students use Bentley products to draw a schematic diagram and a floor plan of a house. Compared to other CAD products, MicroStation is easy to use, so even students with no CAD experience can start drawing immediately. My students have also gone beyond drawing to try their hand at 3D modeling using MicroStation and found it easy to do as well.

“But the ease of use and other capabilities of Bentley software weren’t the only reasons why we decided to join the BE Careers program,” he continued. “The program is dedicated to the needs of the academic community and features discounted academic pricing. All of these benefits triggered our decision to select Bentley.”

By providing students with the same Bentley solutions used by infrastructure professionals, the BE Careers Network program increases their chances of joining some of the most preeminent organizations in the world. In addition, through tailored, flexible programs for students, teachers, and schools, combined with free and discounted software, training, curriculum counseling, and award programs, BE Careers Network enables colleges and universities to cost-effectively incorporate architecture, engineering, and construction technology into their curricula.

The program grants Shibaura Institute of Technology, which has been using Bentley software in its classrooms since 1996, an unlimited campuswide license – including upgrades and updates – for MicroStation and more than 30 software solutions for the design and management of infrastructure. The license also provides technical support and home licenses so students can work with the applications outside of the classroom.

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Stantec Awarded Revit BIM Experience Award for Effective Integration of the Revit BIM Platform

30 January 2007

Autodesk, Inc. announced that Stantec Inc. has received a Revit BIM Experience Award for their effective integration of the entire Revit platform for improved design coordination, and their use of the Revit platform for mechanical electrical and plumbing (MEP) engineering. The Revit BIM Experience Award honors firms for their innovation and excellence in implementing the Revit platform for building information modeling (BIM) to create quality, complex designs and collaborate across the building design disciplines.

"Stantec's passion for technology and its implementation of the complete Revit platform across all building design disciplines exemplifies the Autodesk Revit BIM Experience Award," said Jay Bhatt, vice president, Autodesk Building Solutions. "This multidisciplinary approach is a model for all firms who seek to improve design coordination and integration for increased productivity and efficiency."

Stantec is recognized as a world-class leader and innovator in the delivery of integrated and sustainable design solutions, and is the recipient of many industry and peer awards. The firm provides professional design and consulting services in planning, architecture, engineering, surveying, and project management services to public and private clients. Stantec recognized the multidisciplinary value of BIM and began implementing Revit Systems software for MEP engineering in July 2006, shortly after the product was released. Stantec now utilizes the entire Revit platform on selected projects for all key disciplines of its business, including architectural, structural engineering and MEP engineering.

Stantec is using the Revit platform for all disciplines to design the Westin Kelowna Hotel in British Columbia, Canada. In addition, Stantec is currently working on the renovation and expansion of the former Edmonton Art Gallery of Alberta, Canada with Randall Stout Architects Inc. The firm is collaborating as a member of the Mechanical and Electrical (M&E) consulting team on the project, doing the vast majority of the work in the contract document phase. This 82,300 square foot project, aimed at producing an architectural centerpiece for the downtown core, is being executed using the complete Revit platform. Revit Systems has been particularly valuable in quickly and precisely coordinating new duct and equipment locations through complex existing areas. For example, when faced with the challenge of running exposed storm piping within the Gallery's main atrium -- a space surrounded by glazing -- Stantec was able to use the 3D modeling capabilities of Revit Systems to effectively blend the piping into the structure of the space. When presented with Revit-generated sections and views of the atrium piping, the client was immediately accepting of Stantec's solution and applauded the company's consideration of aesthetics in that space.

"We chose the Autodesk Revit platform for BIM because of the platform's exceptional coordination capabilities between disciplines and the ability of Revit Systems to interface easily with the firm's existing applications," said Stanis Smith, Senior Vice President at Stantec. "As one of the first firms to implement building information modeling across all disciplines, Revit has given Stantec an excellent competitive advantage."

About the Revit BIM Experience Award

The Revit BIM Experience Award celebrates building industry professionals and educators around the world who are helping to drive transformation of the building industry through building information modeling. Autodesk honors firm with this award for innovation and excellence in implementing the Autodesk Revit platform for building information modeling including Revit Building, Revit Structure and Revit Systems on one or more projects. For more information on the Revit BIM Experience award visit <http://www.autodesk.com/revitbimaward>.



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TactonWorks Streamlines the Design-To-Order Process for Fläkt Woods

30 January 2007

Tacton Systems, global vendor of configuration software, announced that [Fläkt Woods](#) has implemented TactonWorks to streamline their design-to-order process. Fläkt Woods is a leading designer and manufacturer of air conditioning and ventilation solutions. The company's expertise can be found in a wide range of industrial applications, including cooling, filtration, heat recovery, diffusion, fire safety and ventilation.

Fläkt Woods has identified two key user groups for [TactonWorks](#). The first group is the designers who will use the solution to make their design-to-order work more efficient. The company will also enable their sales team to generate eDrawings and downloadable files (3D models and 2D CAD drawings) of the company's products when they configure fans on the web.

TactonWorks is a SolidWorks add-in, which runs the Tacton Configurator engine inside the SolidWorks user interface, next to the assembly document. Users can easily create optimal configurations of highly complex products, and automatically generate complete SolidWorks assemblies and drawings on the fly. As soon as the user changes a requirement, the assembly is immediately updated in the same window, making it easy to directly view the consequence of each change in 3D.

"TactonWorks allows us to speed up and improve the consistency of the design-to-order work," says Paul Hunter, Engineering Systems Manager at Fläkt Woods in Essex, UK. "We can now automate a vast proportion of the 3D modeling phase, and streamline the process of bringing the design to production."

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VECO Joins Bentley's Enterprise License Subscription Program

30 January 2007

[Bentley Systems, Incorporated](#) announced that [VECO](#), a leading provider of project services to the energy, resource, and process industries, has joined Bentley's Enterprise License Subscription (ELS) program.

"VECO's broad suite of project services is delivered through a number of business sectors. Each sector operates globally and uses integrated project management and communication systems to provide local solutions," said Mark Christenson, design technologies manager at VECO. "Our new ELS will give these distributed operations the flexibility to immediately access and deploy the infrastructure software they need without worrying about cumbersome licensing restrictions."

Continued Christenson, "We end up saving time and money, as do our clients. An example of this is our advanced use of interference management to identify issues prior to fabrication. Our clients benefit from

our ability to always use the most advanced technology solutions available, enabling us to provide deliverables of the highest value and quality.”

The Bentley ELS program grants organizations unlimited access to the entire ELS software portfolio for a fixed annual fee. The portfolio covers all the architectural, engineering, construction (AEC) and geospatial software needs of subscribers, providing building, plant, civil, and geospatial solutions and supporting a managed environment for their AEC and geospatial IT.

The total coverage at a fixed, discounted price means that organizations can increase their software productivity and reduce their total AEC and geospatial software costs simultaneously. The unlimited access streamlines software administration while the annual term simplifies budgeting and accounting.

As a strategic benefit, Bentley’s ELS helps organizations such as VECO become more agile. Project starts can happen faster and teams can reconfigure more quickly for new opportunities. No-charge pilots allow new technology to be infused into projects more readily. ELS agreements can include partners, extending the agility and multiplying the benefits in global projects.

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Westinghouse Rail Systems Joins Bentley Enterprise License Subscription Program

31 January 2007

[Bentley Systems, Incorporated](#) announced that Westinghouse Rail Systems Ltd. ([WRSL](#)), a world leader in advanced integrated signalling and control systems for mainline and mass transit railways, has joined Bentley’s Enterprise License Subscription (ELS) program.

At the heart of WRSL’s design capability is a strong team of more than 200 designers, most of whom are based in the United Kingdom and all of whom use MicroStation for railway signalling design work. Continued business growth both at home and overseas caused the organization to move to the flexible method of licensing provided by the Bentley ELS.

Said Graeme Vousden, lean engineer at WRSL, “The ELS agreement supports WRSL’s growth into new and emerging markets around the world, where the company is delivering new and modified signalling systems both for mainline and mass transit railways. The ELS agreement provides WRSL with the facility to use a wide range of Bentley software in its railway signalling design activities anywhere in the world. This simplification of licensing frees WRSL to focus on its core activities of railway signalling design and delivery, in the knowledge that its software licensing requirements are being met.”

The Bentley ELS program grants organizations unlimited access to the entire ELS software portfolio for a fixed annual fee. The portfolio covers all the architectural, engineering and construction (AEC) and geospatial software needs of subscribers, providing building, plant, civil, and geospatial solutions and supporting a managed environment for their AEC and geospatial IT.

The total coverage at a fixed, discounted price means that organizations can increase their software productivity and reduce their total AEC and geospatial software costs simultaneously. The unlimited access streamlines AEC and geospatial software administration while the annual term simplifies budgeting and accounting.

Immediately, the Bentley ELS will give WRSL a quick, cost-effective way to offer its clients creative technical alternatives and solutions in support of all projects.

As a strategic benefit, the Bentley ELS helps organizations such as WRSL become more agile. Project starts can happen faster and teams can reconfigure more quickly for new opportunities. No-charge pilots allow new technology to be infused into projects more readily. ELS agreements can include partners, extending the agility and multiplying the benefits in global projects.

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Zuken Strengthens Commitment in France with E³.series and Announces Partnership with Robotics Experts, ECA

30 January 2007

In recent months Zuken, the engineering consulting company, has increased its commitment in France by establishing a direct sales channel for the E³.series software suite for electrical control system design and documentation. As a result, Zuken has won a deal to supply licences of E³.series to ECA, the French robotic systems experts headquartered in La Garde in Southern France.

The significant expansion of the distribution channels for E³.series through Zuken's direct sales network was enabled by their April 2006 acquisition of CIM-Team, the company behind the long established E³.series. This has been the first opportunity for organizations in France to work directly with the E³.series software vendor in addition to the existing reseller.

“We recognize the significance of the electrical design market in France and will continue to channel sizable efforts into developing E³.series business opportunities within the country. The order from ECA so soon after the introduction of direct sales within France bodes well for the future.” Gerhard Lipski, General Manager Zuken Europe.

For more information about the E³.series visit <http://www.zuken.com/E3> or contact the Zuken France office by calling 33 (0) 1 69 29 48 00.

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Product News

Agilent Technologies Announces Breakthrough High-Frequency SPICE Simulation Technology for High-Speed Digital Board Design

29 January 2007

Agilent Technologies Inc. announced a breakthrough in high-frequency SPICE simulation technology. The simulation technology is part of the Advanced Design System's new Signal Integrity Designer Premier software suite, providing the high-speed digital board designer with accurate time-domain response.

“Measured or modeled interconnects at data rates exceeding 1 Gbps are best represented in frequency domain, and it is very difficult for pure time-domain simulators to predict a correct response,” said Sanjeev Gupta, signal integrity application engineer with Agilent's EEsof EDA division. “To address this challenging technical problem, we've developed a new convolution simulator that can automatically enforce passivity on S-parameter models, and can determine, very accurately, the causal time domain response, which represents the original S-parameter data.”

Agilent's Advanced Design System EDA software offers a complete set of front-to-back simulation and layout tools and instrument links for RF and microwave IC design in a single, integrated design flow. Its signal integrity solution for high-speed digital design is made possible through its unique co-simulation technology. The software can model entire serial data links, including interconnects, pre-emphasis and adaptive equalization, in the presence of non-linear driver and receiver models.

Signal Integrity Designer Premier also provides two additional capabilities that are important for accurate high-speed digital design:

- a new, fully integrated set of IBIS (I/O Buffer Information Specification) models for single-ended and differential components such as sources, buffers and terminations; and
- a broadband SPICE model generator.

IBIS models describe the behavior of circuits when triggered by waveforms. They eliminate the need to obtain the often proprietary transistor-level details of components. The broadband SPICE model generator automatically processes frequency-domain data produced by electromagnetic structure simulators such as Agilent's Momentum, a three-dimensional planar electromagnetic simulator and Electromagnetic Design System (EMDS), Agilent's full three-dimensional EM simulator, or by measuring with a vector network analyzer to create models that are accurate over a broad band of frequencies and are usable by a time-domain simulator.

“This technology breakthrough is a great example of our philosophy of continual investment in creating tools that directly help our customers build better designs from the start,” said Jim McGillivray, general manager with Agilent's EEsof EDA division.

Additional information about Signal Integrity Designer Premier and all of Agilent's EDA software offerings is available at <http://www.agilent.com/find/eesof>

A high-resolution image of the Signal Integrity Designer Premier suite is available at http://www.agilent.com/find/signal-integrity_image

U.S. Pricing and Availability

Signal Integrity Designer suites are expected to be available in February 2007, with prices starting at approximately \$25,000.

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Agilent Technologies' Enhanced VEE Software Helps Engineers Refine Designs Faster, More Easily

31 January 2007

Agilent Technologies Inc. introduced enhanced versions of its Visual Engineering Environment (VEE) software, an interactive and open graphical language that is designed to provide a fast and easy path to measurement analysis.

Agilent VEE Pro 8.0 and Agilent VEE Express 8.0 make measurement analysis easy with task-oriented building blocks, enabling engineers to focus on connecting instruments, measuring their device, analyzing the data and presenting their results. Other key benefits and features of these updates to Agilent VEE are provided by three key capabilities:

Watch Window offers powerful and flexible debugging that allows users to view and edit values of variables and lines/terminals, and to continue execution of the program after editing;

Code Completion and Code Insight greatly benefit users who write formula objects through reduced keyboard inputs, the need for memorization and external documentation; and

Programmatic VEE object properties, which allow users to quickly and easily build more interactive and interesting GUIs.

“Agilent VEE Pro 8.0 and Agilent VEE Express 8.0 come with new features that enhance the usability of the previous version and demonstrate our commitment to provide cost-effective hardware and software test solutions,” said Ee Huei Sin, vice president and general manager of Agilent's Basic Instruments Division. “Users can look forward to easy and fast tests and measurements with this two-time ‘EDN Magazine Hot 100 product’ award winner [in 2004 and 2005].”

The Agilent VEE Pro 8.0

Agilent VEE Pro 8.0 is interactive software used for testing and advanced analysis that can be applied across industries and applications such as R&D, scientific and industrial manufacturing, education, aerospace/defense, and automotive. This makes it an excellent tool for design, product development and test as well as scientific and advanced research and manufacturing. It provides designers with an efficient way to make initial measurements with GPIB, RS-232, GPIO, USB, LAN or VXI-based instruments, including data acquisition hardware from other manufacturers.

Agilent VEE Pro is part of Agilent Open, which simplifies system development through system-ready instrumentation, open software tools and PC-standard I/O, enabling users to focus on the performance, reliability and delivery of their products. With these attributes, users can use Agilent VEE Pro to quickly configure devices across a variety of bus types and vendors, and create codes easily with a wide range of languages.

The Agilent VEE Express 8.0

Agilent VEE Express 8.0, a basic version of Agilent VEE Pro 8.0, is an interactive software tool for automated USB data acquisition and analysis with the Agilent U2300A Series data acquisition modules and U2700A Series chassis.

Agilent VEE Express is an ideal tool for design-validation and manufacturing engineers who conduct data logging, measurement or monitoring in a broad range of industries. It works seamlessly with all of Agilent's USB-based instruments.

U.S. Pricing and Availability

Pricing for the Agilent VEE Pro 8.0 starts at \$1,495. The Agilent VEE Express 8.0 pricing starts at \$495. Customers of Agilent VEE Express 8.0 are entitled to a 50-percent discount if they purchase the software together with Agilent U2300A Series data acquisition modules or U2700A Series chassis. Both products are available now. Customers may order online at <http://www.agilent.com/find/OnlineStore>.

More information about the Agilent VEE Pro 8.0 and VEE Express 8.0 can be found at http://www.agilent.com/find/VEE_pr.

Agilent Open is a versatile combination of test system hardware, I/O and software tools. It accelerates the creation of streamlined test systems that are easy to enhance and maintain by giving you greater choice in measurements, connectivity and programming. Using these advantages, your team has more time to focus on what matters most -- the performance, reliability and delivery of your product. More information is available at <http://www.agilent.com/find/open>.

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AspenTech's Groundbreaking Advance in Physical Property Technology Delivers Unique Modeling Capabilities to the aspenONE® Application Suite

31 January 2007

[Aspen Technology, Inc.](#) announced a milestone accomplishment as a result of combining the company's thermophysical and thermochemical property data sets with those maintained by the National Institute of Standards and Technology (NIST). This achievement delivers significant enhancements to the process modeling capabilities of aspenONE®, a suite of applications that integrate and optimize engineering, manufacturing and supply chain operations.

The integration will give users the ability to rapidly develop and accurately model the broadest range of processes with AspenTech's process modeling tools. This dramatically expands the scope and ease-of-use in modeling many types of processes that previously could not be easily modeled.

“For the first time, AspenTech's process modeling customers will have access to one of the world's most comprehensive collections of experimental property data,” said Mark Fusco, President and CEO of AspenTech. “This achievement represents unprecedented opportunities for our customers in the design and improvement of their manufacturing processes.”

The achievement was announced today at AspenTech's Process Modeling Innovation Forum held at the Royal Sonesta Hotel in Cambridge, MA, which featured a program highlighting process modeling technology advancements and innovations by NIST and leading AspenTech customers.

Through this agreement, AspenTech will integrate the NIST ThermoData Engine (TDE) and the NIST Source Data Archival System (SOURCE) within its process modeling products, such as Aspen Plus® and Aspen HYSYS®. This new database, available as part of AspenTech's aspenONE V2006 for Process Engineering, more than doubles the number of components in the product library by adding nearly 12,000 new compounds. The new components will allow users to more accurately and efficiently model a much wider range of processes.

Future directions for NIST-AspenTech cooperation include dynamic linking of the NIST TDE and AspenTech's process modeling technology, expansion to growth technologies like pharmaceuticals and biofuels, and the incorporation of complex high-level computational methods, such as molecular simulation. In addition, the NIST Source Data Archival System will be continually enriched with new experimental data and new compounds from global research and will be made available to AspenTech's customers.

NIST is a non-regulatory federal agency within the U.S. Commerce Department's Technology Administration. NIST's mission is to promote U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve our quality of life.

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Autodesk Enters Plant Design Market; AutoCAD P&ID 2007 Addresses Need for Fast and Accurate Plant Design

29 January 2007

Autodesk, Inc. introduced AutoCAD P&ID 2007 software, a key application in a forthcoming suite of products that marks Autodesk's official entry into the plant design market. Addressing industry challenges including a shortage of staff with specialized skills, time pressures to complete projects quickly and the need to share design information across multiple engineering disciplines, AutoCAD P&ID 2007 accelerates piping and instrumentation diagram (P&ID) design and helps ensure accuracy on projects where updates and revisions are constant.

"We see tremendous opportunity to serve this segment by minimizing the obstacles that can make plant design overly complex and inefficient," said Mark Strassman, vice president, Autodesk Platform Technology. "Our plant customers' work is complex, and their tools shouldn't be. Autodesk plant applications will give customers the best of our multi-disciplinary engineering expertise, in plant design applications that are easy to learn, use and deploy."

From oil and gas to pharmaceuticals, many industry sectors are experiencing a boom in plant facility construction and modification to meet environmental compliance or performance requirements. Both owner/operators (OOs) and engineering, procurement and construction firms (EPCs) face intense economic pressures to complete projects on time while conforming to rigorous safety and environmental standards. AutoCAD P&ID 2007 is built on the world's most popular CAD software platform, to help plant owner/operators and EPC firms make the most of their investments in personnel and Autodesk software, and enable interoperability with future 3D plant modeling technology from Autodesk.

"Our industry is running at full capacity across the globe," said Karl Christman, CAD production manager at Jordan, Jones & Goulding, a regional engineering, management and planning consultancy. "Since our firm's engineers are already proficient in AutoCAD software, they need almost no training to start using AutoCAD P&ID 2007. Its built-in tools and easy-to-use functionality will help us speed project completion to keep pace with our clients' demands."

Foundation for Information-Based Plant Design

AutoCAD P&ID 2007 is designed to make it easy for engineers working on a project -- including plant design, structural, civil, building, mechanical and electrical -- to extract the accurate P&ID logic and information necessary for vital operational and design decisions.

Autodesk strategic partner AVEVA Group plc provides 3D modeling and design solutions used to create some of the world's largest plants. "At this time we have engaged in a joint effort with Autodesk to develop a customized release of AutoCAD P&ID, forming part of AVEVA's suite of applications that will offer full interoperability with the AVEVA Plant Design Management System (PDMS)," said Richard Longdon, CEO, AVEVA. "We're pleased to work with Autodesk so that our applications interoperate, giving mutual customers complete confidence that design changes are synchronized, that 3D models are consistent with 2D design specifications and that engineering data is accessible."

Availability

AutoCAD P&ID 2007 software initially is available in English. For information about AutoCAD P&ID 2007 and Autodesk plant applications, visit <http://www.autodesk.com/autocadpid>.

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Autodesk Partners With Integrated Environmental Solutions to Enable Building Performance Analysis on Revit Platform

30 January 2007

[Autodesk, Inc.](#) announced that it is partnering with Integrated Environmental Solutions Ltd. (IES) to further enhance the Revit software platform for building information modeling (BIM) to support sustainable design. At the 2007 AHR Expo, Autodesk will demonstrate a prototype of how the IES building performance analysis tools might be used in combination with Autodesk Revit Systems to generate accurate building performance analysis data. Such data can improve the decision-making process and empower architects and engineers to design better-performing sustainable buildings.

"The design of more sustainable and energy efficient buildings is key to mitigating the impact of climate change and to decreasing building operation costs. A critical part of Autodesk's further development of building information modeling is to expand the ability for our customers to conduct multiple types of analyses on their building information model," said Jay Bhatt, vice president, Autodesk Building Solutions. "Building performance analysis will help architects and engineers design more sustainable buildings and we're excited to partner with Integrated Environmental Solutions to bring these capabilities to the Revit platform."

A growing number of architects, designers and engineers are turning to the Autodesk Revit platform for BIM to meet these challenges. Through the combination of the Revit platform with building performance analysis tools that can examine the implications of alternative design strategies, take into account physical, climatic and environmental factors, and analyze energy use, lighting and materials in the Revit building information model, designers can help achieve higher operational efficiency and building performance.

Autodesk and [IES](#) are working together to provide robust building performance analysis capabilities to the Revit platform through a workflow between Autodesk Revit Systems, Autodesk's BIM design and documentation software for mechanical/electrical/plumbing (MEP) engineering, and the IES <Virtual Environment> software suite. Through a demonstration at the AHR Expo, Autodesk and IES will display how these two software applications could be used in combination to conduct multiple building performance analyses including thermal analysis, load calculations, daylight assessment with LEED reporting and solar studies. These comprehensive analysis capabilities could help design teams better and more thoroughly understand the complex thermal, light and airflow inter-relationships within their design, allowing them to make more informed design decisions, minimize risk and optimize building performance.

Dr. Don McLean, CEO of IES Ltd. commented, "Through the support of building performance analysis tools such as those in the IES suite, we hope our partnership with Autodesk will help the industry meet the demands for sustainable design and increase the value of building information modeling."

A Comprehensive Portfolio of Software Solutions for the Building Industry

Autodesk offers a comprehensive portfolio of products for the building industry. Ranging from the most advanced technology for building information modeling (BIM) to the most widely adopted design and documentation solutions, Autodesk supports information and management needs throughout the building lifecycle. Building solutions products include Autodesk Revit Building, Autodesk Revit Structure, Autodesk Revit Systems, Autodesk Architectural Desktop, Autodesk Building Systems, Autodesk FMDesktop and Autodesk AutoCAD Revit Series.

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Bentley AutoPIPE V8 XM Edition Provides Improved Productivity and CAD Integration

30 January 2007

The just-released XM edition of [Bentley](#) AutoPIPE—which allows structural engineers and piping designers to calculate piping code stresses, loads, and deflections under both static and dynamic loading conditions—provides improved productivity and increased interoperability with other computer-aided design (CAD) products. AutoPIPE analyzes systems of any complexity, with special features for buried pipeline analysis, wave loading, water or steam hammer, FRP/GRP pipe and built-in pipe/structure interaction.

New features of AutoPIPE XM Edition include:

- The ability to create an ISOGEN-based automatic stress isometric to exchange both digital plotting and design data with multidisciplines in different offices or with offshore contractors (isometric can be customized with version control, annotation, configurable drawing settings, and reference equipment)
- The ability to view an AutoPIPE stress model and major 3D CAD models (including engineering data) together for clash detection and early design decisions using Navigator XM, Bentley's visualization tool based on MicroStation V8 XM Edition
- A major update to popular process piping code ASME B31.3 :2005, including new appendix P alternative stress calculation and code case 178, along with nuclear code updates to ASME III NC & ND.
- Enhanced Excel-style spreadsheets for improved custom printing, sorting, and filtered data for faster and more accurate checking to ensure safe model integrity

- CAD support tags, which provide common exchange information on a stress isometric, report, or on-screen graphics
- Thermal bowing analysis for partially filled hot liquid pipelines or sun heated gas pipelines in hot climates.
- New reference point to evaluate actual deadweight, temperature, and seismic loadings on vessels, pumps, turbines, compressors, and so on to meet actual manufacturer equipment limits
- AutoPIPE XM's compatibility with MicroStation V8 XM Edition means that it can be easily integrated with a wide range of other CAD tools. This allows organizations to establish common data exchange metrics and improve performance.

Moreover, standardizing with AutoPIPE XM creates efficiencies by making processes more uniform and repeatable. This leads to higher productivity, faster delivery, and fewer errors.

AutoPIPE is a complete, high-quality pipe stress solution capable of addressing oil, gas, petrochemical, offshore, and nuclear applications. With 29 international piping codes, 21 spring manufacturers and a full-featured set of static, dynamic and advanced analysis features, AutoPIPE is a leader in low-end to high-end pipe stress analysis projects, including pipe support and equipment design.

AutoPIPE's rigorous quality assurance program has passed numerous independent on-site audits to 10CFR50 App. B, ASME NQA-1, and ANSI N45.2 standards. This makes AutoPIPE one of the few PC-based pipe stress programs approved for use in nuclear safety applications.

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Bentley Unveils ProjectWise Navigator

29 January 2007

Bentley Systems, Incorporated unveiled [ProjectWise Navigator](#), the first visual collaboration client for design review and analysis plus work packaging that fully supports iterative workflows and reuse of all content throughout the process. This new desktop tool complements the ProjectWise system of collaboration servers, which is already used by nine of the top ten ENR 500 design firms to connect people and information across their distributed enterprises.

Commenting on the new release, Buddy Cleveland, senior vice president, Bentley Software, said, "Many users complain that ordinary design review tools limit the use of their content through conversion prior to review and analysis. This results in a scattering of design snapshots that can't be put together and content reused.

“With ProjectWise Navigator, project team members can review and enrich original 2D and 3D design content assembled from their choice of hundreds of applications and file stores. This promotes full design collaboration within an iterative workflow and always cycles the enriched content back to the design team.”

ProjectWise Navigator provides powerful collaboration and enrichment capabilities across all lifecycle stages, including:

1. Reviewing projects and designs in an immersive and visual environment
2. Analyzing and simulating construction schedules and assessing buildability
3. Producing intelligent, portable, and linked work packages for construction and operations

ProjectWise Navigator can also operate in a managed environment in conjunction with ProjectWise collaboration servers. The result is an integrated, connected, secure, and versatile visual collaboration system for successfully reviewing design iteratively across distributed enterprises. Additional capabilities this provides include:

1. Check-in/check-out transactions for secure work share
2. Audit trail creation for insight into who did what and when
3. Full text and component indexing for cross-enterprise searching
4. Local Caching Servers for rapid LAN-like content access
5. Automated and scheduled processing for printing and publishing

Cleveland added, “Up to now, reviewing project content has been difficult because there was no single tool available to assemble it all in one place. With the release of ProjectWise Navigator, Bentley brings such a tool to market. Now, everyone involved in infrastructure projects can easily assemble, review, enrich, and analyze original design content for visual collaboration and can produce work packages in support of critical construction and operations activities.”

ProjectWise Navigator includes many innovations by MicroStation to provide support for a broad range of applications, industry standards, and file formats. Some of the 2D/3D file formats and supported applications include DGN, DWG, PDF, AutoPLANT, TriForma, PlantSpace, PDS, Google SketchUp, Google Earth™, IGES, STEP, JPEG, TIFF, and 3DS. In total, ProjectWise Navigator can access 2D and 3D project content from hundreds of AEC and infrastructure design applications.

ProjectWise Navigator is licensed with a ProjectWise Named User license. The ProjectWise Named User license also grants the same user client-side access to all other ProjectWise clients, to ProjectWise StartPoint, and to all server-licensed instances of ProjectWise Integration Server and ProjectWise Plot Server.

A demonstration being featured this week at daratechPLANT shows how ProjectWise Navigator allows disparate parts of the overall design – in this demo, a site mainly modeled in PlantSpace, a skid unit modeled in PDS, and a power plant section modeled in AutoPLANT – to be assembled and visually reviewed for fit, clashes, and constructability. The assembled view also allows work that involves the entire plant – for example, inspection and maintenance operations, reviewing site security, or placing scaffolding throughout the site – to be efficiently packaged for bidding by contractors. Also during the demonstration, a ruggedized tablet PC, connected to the workstation by wireless networking, is shown accessing a live video camera through a link in ProjectWise Navigator, highlighting its flexibility and portability.

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Cimmetry Releases AutoVue for Microsoft™ SharePoint Server 2007

29 January 2007

Cimmetry Systems Corporation, an Agile Software company, announced the immediate availability of AutoVue 19.1c1 Client-Server, Web Edition for SharePoint Server 2007, Windows SharePoint Services (WSS) 3.0 and Microsoft™ Office SharePoint Server (MOSS) 2007.

AutoVue 19.1c1 for SharePoint 2007 enhances Microsoft™ SharePoint collaboration capabilities by adding powerful and user-friendly visualization, markup, digital mockup and real-time collaboration features for hundreds of native document types, including 2D/3D CAD, EDA, image and Office. Through the integration with SharePoint 2007, AutoVue provides an efficient enterprise visualization platform, connecting teams at all stages of the document lifecycle, and ensuring ready access to crucial information throughout the organization.

AutoVue provides support for SharePoint's major/minor versioning control, empowering teams to make more informed decisions based on the latest versions of original documents. AutoVue real-time collaboration also complements SharePoint 2007 collaboration capabilities, making it easier to include and work with team members within and beyond an organization. All annotations/markups are saved directly into the SharePoint Server 2007 repository, providing users with a single point of access for document review.

AutoVue 19.1c1 for SharePoint 2007 can be purchased from Cimmetry Systems or through a global network of Value Added Resellers. For sales inquiries or to locate a local VAR visit our web site or call +1-514-735-3219. http://www.cimmetry.com/partners_vars-lookup.html. For additional information about our SharePoint integrations, visit our Website at <http://www.cimmetry.com/sharepoint>.

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CoCreate and TechnoStar Announce Integration

30 January 2007

CoCreate Software, Inc and TechnoStar Co., Ltd. announced the availability of an integration between the two development environments to streamline exchanges between design and simulation within the product lifecycle management (PLM) process.

The direct connection between CoCreate's 3D CAD software, CoCreate OneSpace Modeling, and TechnoStar's simulation environment, TSV-Solutions, allows companies to quickly optimize product designs through rapid design and simulation cycles.

Digital simulation software is growing on the desktop as more engineers analyze products for real-world conditions while they design. This trend toward everyday analysis -- where digital simulation occurs as part of the daily design process -- benefits companies by providing better product quality, reduced physical prototyping time and costs, and faster realization of optimal designs.

For companies in time pressured industries, moving from stage gate processes to lean and concurrent efforts helps to shorten development timelines. The integration between CoCreate OneSpace Modeling and TSV- Solutions allows the easy exchange of information so design and simulation run in parallel.

"It is my pleasure to announce that CoCreate's 3D CAD application, CoCreate OneSpace Modeling, can now be accessed from TSV-Solutions. CoCreate is known for their strength in the electronics and high technology industries, and this partnership offers strong support for our business," said Masaru Tateishi, President of TechnoStar Co., Ltd.

"CoCreate's 3rd generation approach to PLM advocates open and connected systems throughout the enterprise. That extends to integrations with other engineering applications on the desktop as we and our partners look to streamline the overall process of product development and lifecycle management," said William M. Gascoigne, CoCreate CEO.

The integration, developed by TechnoStar in support with CoCreate, is part of the TSV-Solutions product suite. TechnoStar will offer the integration starting with version 1.3 of TSV-Solutions and the 2006 release of CoCreate OneSpace Modeling. The integration is available for purchase from TechnoStar.

For more information about TechnoStar please visit <http://www.e-technostar.com/english/index.html>, and <http://www.cocreate.com/> for more information about CoCreate.

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FastTrak™ CAPA Hits the Market; Another Solution from the Integware FastTrak™ Family, Supporting Product Lifecycle Management and Quality Solutions in the Medical Device Industry

29 January 2007

[Integware](#), a leading provider of Product Lifecycle Management (PLM) consulting and implementation services, knows what a solid CAPA system can do for a medical device company. “Through our consulting work for a number of leading medical device companies, all say the same thing, our biggest pain point is managing our CAPA’s, so we decided to do something about it” said Chris Kay, CEO of Integware.

FastTrak™ CAPA can be purchased as a single module or as a bundle with other FastTrak™ products (FastTrak™ NCR, FastTrak™ Change, FastTrak Med Device™). Whatever the need, Integware delivers integrated best-in-class PLM-based solutions designed for your company’s specific product lifecycle processes. “To support process excellence initiatives, the CAPA process needs to interact with all aspects of product development, from design through manufacturing to support.” said Max Huff, Senior Consultant. Integware provides the only CAPA solution with process integration capabilities beyond just the quality organization to meet the needs of FDA regulated companies.

Integware’s FastTrak™ CAPA allows for integration with other Quality Management Solutions (such as FastTrak™ NCR, Change, Complaints, Quality Audits, Verification and Validation and BOM Configurator) and all other PLM solutions within the FastTrak™ suite. This system promotes the adoption of the preventive mind-set. “Companies are now able to move toward taking preventive actions vs. just correcting issues that have already happened” said Chris Kay.

Integware’s FastTrak™ CAPA is currently in global production for several leading medical device manufacturers. FastTrak™ CAPA is the result of years of providing CAPA and many other compliance and product lifecycle solutions to leading medical device companies around the world. This solution enables organizations to manage the CAPA process across the entire company, helping you meet FDA regulatory requirements, increase efficiency and reduce costs. Each FastTrak™ solution comes complete with documentation, training and validation, making your investment painless for your organization.

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Intergraph Integrates Materials Management with SmartPlant® Enterprise

29 January 2007

[Intergraph Corporation](#) announced the rebranding of MARIAN®, Intergraph’s materials management solution, created specifically for the plant design industry, to SmartPlant® Materials. Now with enhanced integration within SmartPlant Enterprise, SmartPlant Materials is the most broadly implemented materials management solution for engineering, procurement and construction companies and owner/operators worldwide.

“Intergraph’s materials and project control offerings are experiencing great success, as organizations worldwide recognize that our solutions significantly enhance the link between the highly dynamic engineering environment and the purchasing and logistics operations,” stated Patrick Holcomb, executive vice president of Intergraph Process, Power & Marine. “The integration enhancements for SmartPlant Materials improve our delivery of SmartPlant Enterprise as a true end-to-end plant life cycle management solution.”

Key to SmartPlant Materials is the enabling of change-controlled bill of materials transfers from SmartPlant 3D, empowering faster and more accurate purchasing in a change managed environment. A bill of materials staging area has been added to the import process, allowing data manipulation and routine checking prior to importing the data. This loading process is a critical step in the project workflow, and the customizable staging area will empower customers with a faster, higher quality data loading process. This capability, coupled with tight integration to SmartPlant Reference Data for catalogue and specification management, will further drive the ability of organizations to execute large and complex projects with unparalleled accuracy and speed.

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Intergraph Introduces Next Generation of SmartPlant® Enterprise

29 January 2007

[Intergraph Corporation](#) announced the release of SmartPlant® Enterprise 2007. With this release, SmartPlant Enterprise offers an even more powerful suite of solutions with which the world’s leading owner/operators and engineering, procurement and construction organizations are managing the plant lifecycle. SmartPlant Enterprise delivers reduced cost of ownership, drives competitiveness, mitigates risk of project overruns and plant downtime, facilitates global project work sharing, and improves Return on Capital Employed.

SmartPlant Enterprise 2007 features enhanced capabilities for both integrated enterprise usage, as well as individual disciplines, while allowing modular implementation. New to this release:

- Enhanced information mapping and schema editing tools to improve integration implementation and administration for enterprise use;
- SmartPlant Basic Integrator, which provides a simplified, lower-cost offering for customers requiring only basic integration, without workflow and advanced collaboration functionality;
- Completed proof of concept of SmartPlant Enterprise solution for owner/operators, featuring an SAP Netweaver integration to enable broader use of engineering information in operations and maintenance functions, with enhanced integration for Digital Control Systems and Asset Performance Management/Reliability Systems, which will be released in the coming months;

- Enhanced modeling capabilities in SmartPlant 3D for power, pharmaceutical, and offshore industries;
- The ability to read AVEVA PDMS models in SmartPlant Review and SmartPlant Foundation allows organizations to standardize their viewing and information management solution;
- Increased productivity in SmartPlant Enterprise Engineering and Schematics tools through streamlined copy plant and system editing functions, and the automatic generation of deliverables;
- The rebrand of MARIAN to SmartPlant Materials, powered by MARIAN® which offers improved integration with SmartPlant 3D and SmartPlant Foundation, to deliver streamlined materials management; and
- The rebrand and bundle of MARIAN MLCL and MARIAN Integrator into SmartPlant Reference Data to provide clients with a centralized capability to manage catalogues and specifications for multiple design and materials management systems.

“SmartPlant Enterprise empowers our customers with versatile delivery of engineering services and data throughout the lifecycle, maximizing their return on investment in their assets Intergraph is offering even broader automation and integration across SmartPlant Enterprise in 2007. We have committed to continuing this innovation via a large and sustained investment in research and development,” stated Patrick Holcomb, executive vice president of Intergraph Process, Power & Marine. “Deployed for individual disciplines or as an integrated enterprise solution, SmartPlant Enterprise allows world leading organizations to successfully unleash untapped value.”

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Intergraph Releases SmartPlant® 3D 2007

29 January 2007

Intergraph Corporation announced the availability of SmartPlant 3D 2007. SmartPlant 3D delivers increased designer productivity for initial modeling, detail design and design modifications, and reduced time to produce and update intelligent drawings.

With extended design automation capabilities to drive productivity during 3D plant design, SmartPlant 3D 2007 supports tight integration with the SmartPlant Enterprise portfolio. Among other enhancements for all design disciplines and automatic drawing production the new version include new modeling functions which extend the capabilities of SmartPlant 3D to meet the unique structural requirements of power plants, pharmaceutical projects and offshore projects..

“Intergraph continues to extend, improve and provide new capabilities and performance with this next-generation 3D plant design solution. SmartPlant 3D continues to transform the way designers undertake 3D plant modeling, empowering customers with schedule reduction, increased designer productivity and increased engineering quality,” noted Patrick Holcomb, executive vice president of Intergraph Process, Power & Marine. “With this key component of SmartPlant Enterprise, Intergraph is offering even greater levels of data integrity and application integration across the entire SmartPlant portfolio.”

Adoption of SmartPlant 3D is growing quickly. With SmartPlant 3D, organizations are addressing human resources shortages and longer-term competitiveness, and they are benefiting from improved productivity. Worldwide, sales of SmartPlant 3D have grown aggressively due to customer satisfaction: 2006 saw 200% growth over the previous year.

For more information on SmartPlant 3D, visit intergraph.com/smartplant/3d.

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Konica Minolta Advances CAD Model Reverse Engineering with rapidformXOR Vivid 3D Digitizer Bundled With Conversion to SolidWorks, only \$2000 Per Month

1 February 2007

Konica Minolta, the makers of the VIVID line of precision 3D laser scanners, announced a new offer, which combines rapidformXOR software with the VIVID 910 3D digitizer. VIVID's precise scan data is transformed directly into intelligent, parametric CAD models directly into SolidWorks and other parametric CAD software. This highly affordable advanced 3D scanning technology is now available for as low as \$2000 a month through a special offer from Konica Minolta.

The bundling of these world-class products means that reverse engineering of 3D models, often an arduous, manual process, has been automated, allowing high productivity, excellent fidelity and intelligence of the model and high usability of the data in downstream CAD software.

"The combination of the VIVID with XOR allows users to generate intelligent parametric 3D models faster than ever before," comments Marty Chader, 3D Business Unit Manager, Konica Minolta Sensing. "This combination closes the gap for the designer, operating on physical parts in the real world, and performing computer-aided design and analysis the virtual world."

He continues, "The combined software and digitizer allow parts to be reverse-engineered into a parametric model, with a full history tree, in a fraction of the time it used to take."

Konica Minolta's versatile laser digitizers scan real 3D objects in a matter of seconds, exporting a polygonal mesh describing the shape of the scanned object with typical accuracy of 0.050 millimeters. rapidformXOR, software from INUS Technology, converts the scan data into intelligent features within the CAD environment. Users can choose commands within Rapidform to turn their 3D scans into parametric models, that are automatically sent to SolidWorks as native part files.

The package is available to customers in North and South America for purchase from Konica Minolta at a special low price, and is also available for a 24-month lease. The most accurate and convenient 3D reverse modeling technology in the world can be had for as little as \$2000 per month.

"Digital scanning is cheaper and faster than the alternative - having a CAD engineer measure and remodel the object," explains Chader. "Complex forms could take weeks to model by hand, an expensive approach that may not capture all the wanted details accurately. With the new VIVID package, the 3D models can be produced in much less time, speeding the design process and freeing engineers to concentrate on new development."

For more information about this offer please contact: Maureen Sirull at (201) 785-2443. Or visit Konica Minolta at SolidWorks World 2007, at booth 724.

About Konica Minolta

Konica Minolta, the world's largest manufacturer of 3-D non-contact digitizing instruments, introduces the VIVID 910. It's the ideal choice for a range of industrial applications from reverse engineering to quality inspection and prototyping. It excels at high-precision 3D measurement of a wide range of items including cast, forged, pressed, and molded plastic items as well as dies. A variety of measurement modes can be selected to accommodate various applications, eliminating the need for complicated settings. What's more, the enhanced product intelligence simplifies measurement. All VIVID products come with digitizing software that enables a user to select specific points on a target object to be viewed, modified, modeled, or scaled with ease.

About INUS Technology/Rapidform

INUS Technology develops advanced 3D scan data processing software. The company's software solutions are products for reverse engineering and inspection of 3D scan data worldwide. Rapidform makes 3D scanning a powerful tool for a variety of applications and is used in manufacturing, R&D, quality inspection, medical research, civil engineering. More than 3,500 organizations including Audi, Ford, Hyundai, Toyota, Rolls Royce, Volkswagen, Hitachi, Panasonic, Oakley, Samsung, Sony, Lufthansa, Alcoa, and Benteler use Rapidform's advanced technology to innovate throughout their research, design, manufacturing and quality control processes. For on-demand and live demonstrations, visit <http://www.rapidform.com>.

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Lectra Launches its New Release of Lectra Fashion PLM

26 January 2007

[Lectra](#) has announced the launch of the Lectra Fashion PLM V1R3.

With Lectra's latest release of fashion PLM, Lectra offers retailers, brands, and manufacturers in the fashion sector unique expertise and a comprehensive offer to accelerate growth and increase profitability while ensuring the satisfaction of increasingly demanding consumers.

Lectra Fashion PLM, a 100% Web-based solution, is the only offering that allows all those involved in the life cycle of a product—creation, development, sourcing, manufacturing, and marketing of fashion product lines—to collaborate effectively. It adds value by allowing participants to work together on the same virtual version of models and fabrics, from the stylist's initial idea to the completion of the final product.

The integration of business applications and collections and process management software enables action to be taken in key areas that lead to improved performance: capacity for innovation, brand identity, frequency and time to market, quality assurance, control of development costs for products and materials, management and synchronization of multiple processes, and decision-making about collection content.

The new release of Lectra Fashion PLM brings major improvements, in particular to its Product Development and Workflow Management applications, specific to collection development process management.

Facilitate Sourcing Process Management for Products and Materials

Delivering a collection, complete, and on time, while maintaining quality and respecting costs, is increasingly difficult to achieve in a complex international environment where different sourcing models coexist both for products and for materials—from the classic subcontracting system and co-development, to sourcing the finished product.

Through its Product Development application, Lectra Fashion PLM now ensures effective collaboration among those involved in all specific processes related to the sourcing of fashion products and related fabrics: fast and precise synchronization and management of multiple bids, prototype review, and effective cost simulation taking into account the product's multiple variants. Finally, the quality process is also enriched by the ability to define and validate the different tests (color-fastness, flammability, etc.) and checks (measurements, finishing, etc.) that each product must undergo before it can be marketed.

Optimize Pattern Design, an Integral Part of the Development Process

One of the key points of customer satisfaction and loyalty in a climate of permanent innovation is to ensure a good fit. This is why it is essential to allow for effective collaboration among pattern designers, product managers, and manufacturers when designing each product.

Today, Lectra's pattern design applications are integrated with the Product Development application in order to allow the same access to pattern-related data, to facilitate proper combining of patterns with the technical specifications of the product, taking into account each of its variants, and to ensure dynamic updating in the event pattern designers make changes during development. All participants in this process can share a single, common version, minimizing the risk of errors and ensuring optimal product quality.

Globally Control Collection Development, by Line or by Product

Developing a collection is a path strewn with obstacles that involves the performance of many interdependent tasks.

The Workflow Management application, which organizes and controls collection project activities, currently provides for even closer monitoring of collection development activities. This is achieved by controlling them at different levels: definition and control of the general collection development plan and

all related activities, but also specific control of the development stages of each product based on target date.

Streamline Reports and Activity Schedules

All those involved in the development process of a product must have access to the latest updated information and must communicate clear, precise, and visual information in order to minimize the risk of errors and misinterpretation. At each major stage, standard visual reports can be generated in the Product Development and Line Planning applications. Developed through the combined experience of Lectra and its customers, they fulfill the principal reporting needs of fashion companies. They can be supplemented with customized reports.

Lectra Fashion PLM: A Unique Solution for the Fashion Market

“Lectra Fashion PLM represents a major technological leap forward on the fashion industry. This innovation is the result of many years of research and development by over 100 engineers and technicians. Lectra Fashion PLM capitalizes on the acquired experience of 17,000 customers over more than 30 years“, said Daniel Harari, CEO, Lectra.

Many players in the fashion industry have chosen Lectra Fashion PLM, among them Mango ([see press release of January 3, 2006](#)), Denim Authority ([press release of July 27, 2006](#)), and Please Mum ([press release of December 7, 2006](#)).

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Lectra Unveils Easy Grading, the Only Intelligent Automated Grading Application for the Apparel Industry

29 January 2007

[Lectra](#) announced the release of Easy Grading, a unique and powerful automated grading application. This innovation will be included in Lectra’s Modaris and PGS pattern-design solutions.

In a context of permanent collections renewal, multiplying product lines, and body measurement disparities, Easy Grading optimizes the grading process for apparel-sector companies, facilitating and accelerating grading activities by up to 70%. This application also satisfies quality requirements and contributes to perfectly-fitting garments, while enabling professionals to get more precise costing information.

Grade patterns transparently

Easy Grading uses traditional grading methods through Lectra's patented grading calculation tools, allowing users to grade patterns with greater transparency and contributing to grading method sharing and standardization within a company.

With Easy Grading, the operator selects a graphical representation with grading information (a "mask," or template), by product type (pants, shirt, skirt, etc.), from a customized library. After selecting a measurement chart, the operator loads the pattern pieces and positions them onto the mask either manually or automatically. The grading is then performed with the click of the mouse!

Easy Grading's ability to deal with different measurement tables enables apparel-sector companies to customize garment grading to the specific needs of local populations.

Capitalizing on grading knowledge and best practices

"With this intelligent application, which results from more than 30 years of experience in the fashion market, grading of the majority of garments can now be performed by anyone," explains Astrid Marlier, Lectra's product manager for pattern-making and marker-making applications. "Easy Grading enables fashion professionals to optimize grading activity and greatly increase their productivity while capitalizing on the company's knowledge and best practices. With this innovation, grading takes only four clicks and a few minutes!"

Easy Grading has undergone conclusive testing in different applications for women, men and children-wear in several apparel-sector companies around the world.

"Grading is extremely important to us, as it represents one of our main activities," explains Dante Giovannini, Director of Penta Service (Italy). "Before using Easy Grading, an entire day was dedicated to a single product; now we can produce several per day, creating more patterns in the same amount of time."

"We create up to 200 patterns per season, divided among pants, jackets, shorts, and skirts, says Attilio Ferrara, director of Giada (Italy). "With Easy Grading, we now work up to 70% faster than before."

Easy Grading will be released in February 2007 as part of the newest releases of Modaris and PGS, Lectra's world-renowned pattern-design solutions for the apparel industry. These solutions complete Lectra's offering for design, development, manufacturing and product lifecycle management (PLM).

Optimizing industrial processes

"By improving the development of garments, our pattern-design solutions—which now include Easy Grading—offer further proof of our ongoing commitment to simplifying and accelerating industrial processes in order to ensure the success of apparel professionals," stated Lectra CEO, Daniel Harari.

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LeverX Inc Now an Sap Services Partner

31 January 2007

LeverX Inc., a full-service systems integrator specializing in mySAP™ Product Lifecycle Management implementation, announced that it has become an SAP Services Partner. This new relationship between SAP and LeverX will allow LeverX to more directly deliver industry leading integration services to a broad base of customers of SAP® applications interested in driving innovation, improving new product development and introduction (NPDI) processes, accelerating profitable products to market, and better managing their global design and partnering networks.

“We are excited and share SAP’s commitment to offering comprehensive product lifecycle management (PLM) solution to meet the challenges of product development and innovation management in the increasingly global manufacturing and services market,” said Dr. Victor Lozinski, LeverX’s co-founder and president. “Our goal is to help SAP customers realize the benefits of mySAP PLM and to do so rapidly and efficiently. SAP’s leading PLM solution together with LeverX’s industry and system integration expertise will offer SAP customers a truly integrated PLM solution deployed specifically to leverage and drive competitive advantage for their company.”

LeverX has worked closely with SAP in the development, education and implementation of their PLM solutions for many years. LeverX has supported SAP Consulting and other global Systems Integrators in the implementation of mySAP PLM and other related solutions with leading manufacturers in North America. The SAP Services Partner status will expand LeverX’s ability to assist SAP in growing their PLM and related business in North America. Leveraging a long history in implementations of SAP applications, LeverX has developed a deep core competency in the processes necessary to build and manage products throughout their entire lifecycle.

“Manufacturers of all sizes are continuing to implement PLM in record numbers. Increased levels of investment in both new and expanded PLM solutions affirms that companies clearly recognize PLM as fundamental to improve their top and bottom line performance,” explains CIMdata President Ed Miller. “Within the PLM market, SAP’s PLM solution consistently ranks among the revenue leaders and is recognized for providing substantial PLM capabilities integrated with their leading ERP solutions. In support of SAP’s application offerings, LeverX has established a solid record of successfully implementing mySAP PLM solutions, and their recent achievement of becoming an SAP Services Partner is a clear recognition of their experience and quality of services,” says Miller.

Product innovation brings new challenges daily, environmental concerns, shorter product life spans, globally distributed sites and project teams. Today manufacturers must deliver high-quality products and services quickly and cost-effectively, while retaining and building a customer base, reducing service costs, and complying with international regulations. mySAP PLM provides a single source of all product-related information needed for collaborating with business partners and supporting processes including product innovation, design and engineering, quality and maintenance management, and control of environmental issues from an integrated solution within your existing business enterprise system.

“LeverX is focused on supporting SAP customers make the necessary investments to realize the tremendous benefits available to them from SAP’s leading PLM and related solutions,” said Dr. Lozinski. “LeverX has a proven record implementing mySAP PLM. Our business model is solely focused on SAP applications, we offer domain specific systems integration and business consulting, in conjunction with near-shore and off-shore capabilities. We have established a trusted working relationship with SAP Field Operations and SAP Product Development organization. This all combined, we believe, offers SAP customers the best option to ensure rapid, cost-effective and successful PLM implementation and deployments yielding true business benefits.”

About LeverX

LeverX assists companies increase business value from product lifecycle processes by leveraging existing investments in SAP solutions. By expanding and building upon a company’s existing capabilities of SAP applications, LeverX helps companies find, deploy and realize incremental business value and tangible benefits to their New Product Development and Introduction (NPDI), and Product Lifecycle Management (PLM) processes. LeverX has comprehensive expertise in both traditional mySAP PLM capabilities such as Document Management, Project Systems, Engineering Change Management and Workflow, Variant Configuration/Classification, and CAD integration as well as newer collaborative solutions such as cProjects, cFolders, and Cross Applications (xApps) including xRPM (Resource and Program Management) and xCQM (Cost and Quotation Management). LeverX Inc. is a California corporation founded in 2003, by senior SAP leadership and PLM industry professionals. LeverX has established a proven reputation for excellence with a growing list of Fortune 1000 and Mid-market clients. Information regarding LeverX can be found at <http://www.LeverX.com>.

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McLaren Software Debuts Enterprise Engineer for Assets

29 January 2007

McLaren Software announced what it says will be a “game-changing” technology for owner-operators and engineering prime contractors: Enterprise Engineer for Assets.

The new software serves as a controlled library of officially sanctioned engineering documents and drawings, including:

- ‘As-built’ drawings
- Health and safety documents
- Standard operating procedures
- All other related asset content and correspondence

[McLaren](#) calls this document library an Asset Information Vault, and stresses that it helps companies standardize key engineering processes to increase operational efficiency and reduce cycle times, while also lowering non-compliance risks and decreasing lost production time. All of which results in a new way for companies to manage the supporting documentation for production assets like factories, refineries, oil rigs and power plants.

“During their lifespan, assets are renovated, reconfigured, extended or decommissioned to meet everything from changing business demands to external regulatory requirements,” said Paul Muir, CEO of McLaren Software. “Enterprise Engineer for Assets centrally aggregates and manages all of the engineering content associated with these ever-changing facilities, providing engineering professionals with reliable, secure access to crucial project documents anytime, anywhere.”

Enterprise Engineer for Assets works in real time with both newly created documents and documents in revision stages. This improves review, approval and handover processes and is especially important when there are multiple concurrent projects all working on the same content. Moreover, it allows users to track the relationships between the various documents for each individual project and the master versions of those same documents, providing a high level of support for concurrent engineering projects.

Enterprise Engineer for Assets is the only product of its kind which ensures that there is a single trusted source for asset content. This reduces rework and minimizes project delays. It also allows for more accurate decision making based on roles and assignments by using built-in processes that allow for officially sanctioned document updates. These updates can then be communicated in a controlled manner across all end users.

“Enterprise Engineer for Assets will allow our customers to bridge the gap between their engineering and maintenance teams by becoming the trusted source for all engineering content,” said Muir, who goes on to point out that the product also allows for integrations with common maintenance applications like MRO’s Maximo and SAP’s Plant Maintenance

The Enterprise Engineer for Assets’ system architecture is based on an inventory of physical sites, facilities, buildings, systems, and in some cases engineering disciplines – all of which are segregated into a “Masters Area” and a “Released Area.” All documentation placed in these areas seamlessly conforms to company and project standards, and can be easily and securely transferred for future reference.

Muir stresses that Enterprise Engineer for Assets confirms that as-built drawings and plant documentation are prepared and distributed in a controlled and centralized manner. “This simplifies the task of moving an asset from design to construction to operations and eventual de-commissioning,” he says.

“It also allows owner-operators to standardize third party access to essential plant information, making it the industry’s only fully auditable mechanism for sharing plant information with external vendors and contractors in a systematic way,” continues Muir. The result, he says, is that a prescribed set of business rules within the system creates a compelling way to drive process automation, mitigate operational risk and diminish the compliance issues associated with critical asset documentation.

Enterprise Engineer for Assets will be generally available in second quarter 2007 and is designed to work with McLaren's flagship application suite, Enterprise Engineer™.

Enterprise Engineer supports the engineering process by providing a single point of control to manage the production and use of project content, including drawings, correspondence, procedures and specifications. It works on top of both the EMC Documentum and FileNet P8 platforms.

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New Version of SolidWorks' 3D ContentCentral Gives Web Users a Unified View of Parts Catalogs, Regardless of Format, in Six New Languages

31 January 2007

[SolidWorks Corporation](#) announced a comprehensive redesign of its 3D ContentCentral® Web site that presents online catalogs in a common format, enables engineers to find appropriate 3D CAD models, and accelerates the product design process. A standardized view of millions of product models reduces time spent searching through supplier catalogs and frees engineers to spend more time designing better products.

This new version of 3D ContentCentral is free to registered users and is available in English, German, French, Spanish, Italian, simplified Chinese and traditional Chinese. Users may now access supplier product information, 3D CAD models and 2D drawings in a consistent format and quickly complete cross-catalog searches to find the desired component. 3D ContentCentral's new interface and multi-language support address a growing global demand for online content. 3D ContentCentral currently hosts more than 175 supplier catalogs and showcases "supplier certified" models which represent millions of part numbers. In addition, 3D ContentCentral offers quick access to more than 5,300 models contributed by the 3D ContentCentral user community which are featured in 3D ContentCentral's User Library.

Catalogs available on 3D ContentCentral allow engineers to streamline product development by finding and configuring a supplier part or assembly they need in seconds, not weeks. They can then download the 3D model or 2D drawing directly into their design, checking form and fit prior to purchase. 3D catalogs save product designers valuable design time which they would otherwise spend looking through paper catalogs or on the phone with the supplier's sales support staff to find and configure a supplier component.

The 3D-enabled catalogs available on 3D ContentCentral showcase everything from sensors to large motors. Components from global suppliers such as SMC Corp. of America, Misumi USA, Inc., CarrLane, Omron, and Bimba Manufacturing Co. are among those featured on 3D ContentCentral.

"Getting up-to-date design information on the Internet is a key aspect of how our users design products," said Lynne Wilson, SolidWorks vice president and general manager, content solutions. "The new 3D ContentCentral Web site, with its enhanced navigation and cross catalog search, was designed with a single goal of making it an everyday resource for product designers to download 3D models in all CAD

formats. We strongly believe that the new Web site will continue to accelerate the adoption of 3D ContentCentral by the CAD community as the premier online resource for CAD component models on the Internet.”

All 3D components can be conveniently accessed for free via SolidWorks’ 3D ContentCentral service at www.3dcontentcentral.com. Over the past year, more than 228,000 users have registered on 3D ContentCentral to find, configure, and download 3D part models or 2D designs for their product development. 3D ContentCentral allows users to browse supplier catalogs and product categories such as tooling, power transmission, or pneumatics via the Internet, or directly from within SolidWorks software.

“Having access to a multitude of component manufacturers from a single Web site saves time and effort in locating the part models I need,” said Ricky Jordan, senior mechanical design engineer at Dynetics, Inc. “Instead of going from one supplier Web site to another, I can quickly and easily search 3D ContentCentral and find the models I need in a single location.”

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Newest Cincom Sales Configurator Addresses Needs of Global Manufacturers and SAP Customers

31 January 2007

Worldwide software and services provider Cincom Systems has added new features to its Cincom Sales Configurator and Cincom Socrates® software products. Both products now include enhanced localization features and support double-byte character set languages for manufacturers with operations in China and other Asian countries. The new release also includes many enhancements to increase user and developer productivity including a pre-built integration to SAP® R/3.

Manufacturers with complex products have streamlined sales, design, and proposal processes by using Cincom to deliver critical product and sales knowledge to the point of sale and reduce "quote to cash" time significantly.

"We are very excited about the multilingual capabilities in both the development environment and the customer-facing application," said Robert Flashinski, Manager, Customer Facing Systems at Greenheck Fan Corporation. "Moving forward, this will enable us to provide our China operations with the same functionality that has been so important to our North American operations." Greenheck is one of several customers that have recently upgraded or purchased the new release of Cincom's software.

"This release is very important for our global customer base," said Jim Wilson, Product Director for Cincom Socrates. "In addition to improved international support, we've enhanced almost every area of the product, including new deployment options, performance improvements, and productivity enhancements to our enterprise modeling environment."

Multilingual deployment and localization

The products have been fully internationalized and support regional currencies, times, dates, and numbers. Unicode and MultiByte Character Sets are now supported in both the development environment and the end-user interfaces.

Easy integration with SAP products

The new release provides support for SAP customers who require more robust guided-selling, product-configuration, and proposal-generation capabilities. The solution shares customer and quotation data with the SAP system and feeds configured sales orders directly into the SAP Order Management and SAP Variant Configurator modules.

Faster ways to configure

A new feature provides users with a configuration library of pre-defined and common configurations, enhancing productivity for sales reps that frequently need to specify similar solutions.

Easier for domain experts to manage

Cincom Socrates has been enhanced with new productivity tools that make it easier for product managers, engineers, and marketing managers to build and maintain rules-based product and application models.

New web deployment option

A new AJAX thin web client improves performance and simplifies deployment for customers deploying complex, rules-based applications over the web, an intranet, or in HTML-based application portals like the SAP Portal.

"The new [Cincom](#) release was perfectly in-line with what we needed to accomplish," said Flashinski. "They continue to be an important business partner for us."

The Cincom Sales Configurator™ 8.0 captures the product, services, and business knowledge needed for guided selling, complex product configuration, and proposal management. Cincom Socrates 8.0 is a complete, enterprise-strength application development environment that allows "knowledge-based" applications to be developed accurately and deployed rapidly.

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Right Hemisphere Selected by Microsoft as Windows Vista Go-to-Market Partner to Showcase Windows Vista and 3D Publishing

29 January 2007

[Right Hemisphere](#)® announced it has been chosen by Microsoft Corp. as one of 10 companies worldwide to go to market with for the new Windows Vista operating system. Microsoft selected innovator Right Hemisphere to showcase some of the more unique and compelling capabilities of Windows Vista and Right Hemisphere's 2D and 3D authoring and publishing solutions. Windows Vista, which was made generally available today, promises to deliver innovations in organizing and finding information; security; and reliability so users can find, use, and share text and 3D data with ease.

“Windows Vista and the 2007 Office system will create a platform for the next generation of user experiences. We are excited to see the industry come together like never before around these products,” said Brad Goldberg, general manager for Windows. “By working closely with partners such as Right Hemisphere, we are able to provide customers worldwide an experience that is easier, safer and better connected.”

Right Hemisphere has been working with Windows Vista beta code to ensure that XAML file exporting and XPS file publishing will be supported in both its enterprise and client software offerings soon after Vista is generally available. In addition, Right Hemisphere is working to integrate powerful technologies into an upcoming release of Deep Server™, the company's flagship enterprise software product.

“Incorporating key Windows Vista technologies into our upcoming product releases will expand our publishing capabilities, improve our data search and management capabilities, and provide an overall better graphical experience for the end user,” said Mark Thomas, CTO and president of Right Hemisphere. “Microsoft's products and technologies have played a significant role in Right Hemisphere's past development and deployment plans, and they have become even more important with Windows Vista.”

Right Hemisphere's Deep Exploration™ and Deep Publish™ client applications will support XAML 3D content in their next releases which are expected to be available by March 2007. With support already available for more than 120 2D and 3D formats, Deep Exploration will enable a wide range of CAD and other 3D data formats to be translated and published in the XAML format and as secure 3D XPS files for sharing and collaboration. With the enhanced data security and search features of Windows Vista, this 3D content will also be protected and easily tagged and found throughout large enterprises and their extended supply chains.

Right Hemisphere's Deep Publish software works with Deep Exploration client or Deep Server enterprise software to enable users to publish, view, interact with, and import 2D and 3D graphics directly into Microsoft Office applications— such as Microsoft Word, Excel, and PowerPoint—as well as Adobe® Acrobat®. With Deep Server, customers will also be able to automate the process of creating XAML and XPS files on a large, enterprise scale. With Windows Vista and an upcoming version of Deep Publish, users can import a 3D file directly into a Microsoft Office application and convert it to an XPS file with just one simple mouse click.

“Nothing speaks quite as loudly to the proliferation and democratization of 3D as Microsoft releasing a rich, 3D operating system like Windows Vista,” said Michael Lynch, CEO at Right Hemisphere. “We are really excited to see a whole new look and feel with Windows Vista that takes 3D content into full consideration. For our customers who are leveraging their 3D engineering assets far downstream into

their organization's marketing, tech docs, and support teams, we expect Windows Vista to greatly enhance their user experience and complement our 3D publishing software.”

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Seemage 4.0 Revolutionizes Desktop Productivity for Manufacturing Users

31 January 2007

Seemage, Inc. (<http://www.seemage.com>) announced the immediate availability of Seemage 4.0. Seemage 4.0 makes product information every where possible, improving product deliverables while reducing costs and improving productivity. Based on open XML standards, Seemage 4.0 imports the complete digital product definition from any 3D CAD or enterprise application into Seemage's easy-to-use content creation applications. Using Seemage 4.0, end users in any department can combine 3D design data with bills-of-material (BOM) and metadata from any enterprise system to create a broad range of product deliverables including marketing, sales, manufacturing, service and support documentation.

With over 40 new or improved features, the new Seemage 4.0 system is the most easily-deployed, most compatible, most comprehensive way for manufacturers of all sizes to increase the productivity of users who create product deliverables. Seemage 4.0 is uniquely capable of being implemented first as a desktop productivity application and then, using open XML, being non-disruptively integrated into enterprise resource planning (ERP), customer relationship management (CRM), product lifecycle management (PLM) and any other enterprise system. For content creators, Seemage 4.0 offers superior ease-of-use and flexibility in creation of lightweight outputs. End-user consumers of Seemage-created content access rich information and deliverables in precisely the way users want to: at their desktop and in common tools such as Microsoft® Office®. With Seemage, up-to-date information is available to users when, where and how they need it.

“With Seemage 4.0, we have made it possible for manufacturers of any size to quickly improve core processes in their businesses,” said Chris Williams, CEO, Seemage, Inc. “The areas that Seemage improves – marketing, sales, product maintenance, manufacturing and more – contribute real savings to the bottom line. PLM systems have not been effective in bringing product data ‘the last mile’ onto non-engineering users’ desktops. Seemage 4.0 is the answer to the frustrations of end users who require secure access to 3D design data from their current desktop environment.”

Highlights of important new capabilities in Seemage 4.0 include:

Fully-shattered file structures. This new capability facilitates integration with existing enterprise systems by allowing the generation and maintenance of any BOM regardless of the existence of a CAD assembly. BOM, visualization and procedures can now be delivered based on any product configuration. The problem of synchronizing product changes is solved by supporting parts and assembly instances. A fully-shattered file structure allows for the concurrent authoring of all product deliverables.

Automatic creation of interactive bill-of-materials. Creating interactive parts catalogs and BOMs has never been so easy and powerful. Instances can be identified automatically and/or reused from an ERP system. Parts catalogs and BOMs can be updated and re-published automatically when CAD and ERP data changes, dramatically reducing rework.

Static and dynamic clash. All users across the enterprise can now evaluate how interference affects the assembly and service procedures they are authoring. Now, interference problems will be found before manufacturing begins or the product goes to the field. Static clash helps users obtain detailed information on an interference situation, facilitating exchanges with the extended teams.

Loading/Unloading on demand. Enhances performance of the Seemage environment by permitting users to specify the active parts. Seemage 4.0 can dynamically respond to user requests to modify the presence of any component, eliminating the need for users to break models into smaller pieces.

Internal part culling. After authoring content and before publishing it, Seemage 4.0 can automatically remove any unseen components therefore reducing the file size of the published content and protecting the removed parts.

Packaging and availability

Seemage 4.0 is available immediately from Seemage and its worldwide partners. The Seemage 4.0 system includes:

Seemage Viz, the 3D high-performance viewing tool. Seemage Viz extends viewing with the ability to create and store custom product configurations and interactive BOMs delivered as HTML, PDF and other document formats.

Seemage Mockup builds on Seemage Viz by offering multi-CAD digital mockup capabilities, the ability to create animations, kinematics and reverse-kinematics.

Seemage Publisher is the most comprehensive Seemage desktop environment and offers high-raster output formats, including industry-standard scalable vector graphics (SVG) and Computer Graphic Metafile (CGM) outputs.

Seemage Player is a free way to distribute Seemage-authored content. Seemage Player offers the same high level of performance as Seemage Publisher, Seemage Viz and Seemage Mockup.

Seemage Rights Manager grants permissions and protects deliverables with 128-bit AES encryption.

Seemage Secure3D prevents accurate dimensioning of a part while still permitting use of the information. Seemage Secure3D makes it possible for manufacturers to easily share and protect important intellectual property.

Seemage Clash offers both dynamic and static clash detection of parts. Going beyond simple CAD-based clash detection, Seemage Clash makes it possible to qualify assembly and service procedures.

Seemage Sync delivers sophisticated, XML-based associativity among Seemage and any number of enterprise systems. With Seemage Sync, changes in metadata, geometry, BOMs or manufacturing information can be automatically updated in Seemage deliverables, guaranteeing accurate and consistent information.

Seemage Importers free your CAD data by translating it into an open XML Seemage format. All major 3D CAD file formats are supported.

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T-Systems Receives Software Award From SolidWorks; Award for Interface Between CAD and PLM Programs

1 February 2007

The SolidWorks Corporation has granted an award to T-Systems for the design of an interface between the CAD program SolidWorks and mySAP™ PLM. Over 2,000 licenses of the "SolidWorks Certified Gold Product" are currently in use by around 100 customers worldwide. T-Systems is an important partner for SAP in the development and maintenance of this interface to the ERP vendor's system. SAP has been selling the add-on product to mySAP PLM worldwide since 2001.

CAD integration by T-Systems is mainly used by customers in the engineering of machines and industrial plants, but it is also applied in the area of medical technology. The interface between SolidWorks and mySAP PLM integrates the business processes of development and design engineering into Product Lifecycle Management. This solution is particularly beneficial to design engineers who work together on components at distributed locations worldwide. This allows these complex development projects to be precisely and reliably implemented.

Since the end of the '90s, T-Systems has been developing and maintaining integration products between the ERP/PLM system from SAP and CAD programs from other leading producers such as SolidWorks, SolidEdge and MicroStation. The PLM specialists had initially brought these standard interfaces to the market for the development of special vehicles. Through ongoing further development these are now also in demand in mechanical engineering, the electronics industry and in medical technology.

About T-Systems

T-Systems delivers high-quality services combining information and communication technology (ICT). The company's broad expertise in both fields makes the business customer division of Deutsche Telekom a preferred partner for multi-national corporations, small and medium-sized businesses and public institutions. Over 160,000 customers from every industry worldwide benefit from the company's special expertise in providing integrated ICT solutions from a single source. T-Systems is the only company to offer its own complete ICT portfolio and to combine IT and communication technology to produce new solutions. In 2005, 52,000 employees in over 20 countries achieved a turnover of 12.9 billion euros.

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Telelogic Offers Leading Enterprise Architecture Product, System Architect, with Japanese Character Support

31 January 2007

Telelogic announced the availability of Telelogic System Architect® with support for Japanese characters. System Architect is the leading enterprise architecture and business process modeling solution set worldwide.

This release, version 10.5, enables Japanese enterprise architects and IT professionals to leverage all of the features currently available in System Architect. In addition, Telelogic will also offer its Japanese language customers full sales and technical support for System Architect.

Telelogic also offers Japanese versions of Telelogic DOORS®, the leading requirements management product family, and Telelogic Tau®, its systems and software modeling software.

“The introduction of a Japanese version of System Architect is an important step for Telelogic,” said Greg Sikes, Executive Vice President, Modeling Solutions, Telelogic. “We are committed to delivering a comprehensive package of systems and software development solutions to the Japanese IT and business community. With this announcement, we are expanding our offerings to address application development and requirements management tools and support services.”

Telelogic System Architect enables organizations to design, visualize, analyze, and publish business models and enterprise architectures that help them understand the relationships between their technology, processes, and data. This information increases corporate agility, enabling organizations to better meet their ever-changing technology and business objectives.

“We are pleased with Telelogic’s decision to release a Japanese-localized version of Telelogic System Architect. With this version of System Architect, Japanese organizations will be able to leverage all of the benefits that Enterprise Architecture offer, like increasing organizational agility and ensuring that IT projects are aligned to business strategy,” said Yoshihiro Kondo, Senior Manager, Systems Consulting Office’ Mizuho Information & Research Institute, Inc.

Telelogic is a leader in ‘Actionable Architecture’ software solutions that help organizations increase efficiency and agility by relating systems, data, and processes to the broader goals of the enterprise. System Architect supports Actionable Architecture by capturing key information about an enterprise and transforming it into a communication platform that enables users across the enterprise to improve decision-making and support business objectives. With System Architect, organizations can assess the impact of a change to the enterprise through “what if” analysis before the change is committed.

An Actionable Architecture promotes innovation and responsiveness by increasing understanding of how business operations support or hinder new product/service/application development. Whether for IT investment strategies, best-practice, regulatory compliance, managing change, adding/deploying new services, analyzing business processes to identify redundancies, or opportunities for improvement, an

Actionable Architecture gives you the information you need to define how and where to harness innovation.

About System Architect

[Telelogic](#) System Architect comprehensively supports all structured, data, object, and business process modeling techniques. In one powerful tool, the relationships between the diverse business relationships of technology, processes, and data can be visualized and traced back to their original sources. As a result, organizations can more quickly understand, analyze, and take action on business and technology issues.

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UGS No Cost Solid Edge 2D Program Goes Global

29 January 2007

UGS Corp. announced that its no cost Solid Edge® 2D Drafting software (a \$995 value) is now available in 10 languages online at <http://www.solidedge.com/free2d>. In addition to the English version already available, downloads are now available in Simplified Chinese, Traditional Chinese, French, German, Italian, Japanese, Korean, Russian and Spanish.

The announcement is part of a continuing effort by UGS to help users around the globe “Evolve to 3D” CAD software by providing them access to no cost 2D design and drafting to begin the transition. There is no cost to download or license the software. Optional support and automatic upgrades are available for a nominal fee.

As of Jan. 1, the popular English version of the no cost program has established substantial market penetration with more than 33,000 downloads. Approximately 25 percent of those who downloaded the program indicate that they are considering 3D.

Gil Tellier, principal of Tellier Engineering & Consulting, downloaded the free Solid Edge 2D drafting product. Then Tellier bought full Solid Edge 3D in late 2006 to meet his goals for a new rocket engine project.

“After looking at the Autodesk 3D product, I had no thoughts of buying 3D until I tried the free Solid Edge 2D Drafting product,” said Tellier. “There’s nothing like free 2D and it works great but I saw much more in the 3D, particularly from the examples of 3D modeling and conversion to 2D and back to 3D on the web site. I could see bigger opportunity in Solid Edge to design our complex rocket engine valves easier and faster with the full Solid Edge 3D package.”

Shortly after the announcement of the no cost 2D program, UGS launched a series of “Dare to Compare” seminars around the globe that continue in 2007. The program focuses on competitive differentiation over SolidWorks® software and Autodesk Inventor® software. Seminar attendees test drive Solid Edge to see how it enables real business advantages through a streamlined process of innovation.

CIMdata PLM Industry Summary

“The market has really responded these programs,” said Bruce Boes, vice president, UGS Velocity Series Marketing. “2D is a pure commodity on the market today, which we believe no one should have to pay for. Still, 2D has a substantial lasting role in design and documentation. Our Solid Edge hybrid 2D/3D design software gives users the ability to optimize the use of both in a single system on their terms. We dare anyone to compare us to the competition.”

For more information, visit <http://www.ugs.com/daretocompare> and www.solidedge.com/free2d.

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