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Top Story

CIMdata Announces its 2012 PLM Market & Industry Forum Series; Forum series offers first public exposure to CIMdata's analysis of 2011's PLM market results

19 January 2012

CIMdata PLM Industry Summary

CIMdata, Inc., the leading global PLM consulting and research firm, announces its international 2012 PLM Market & Industry Forum schedule and program. These one-day events, formerly known as CIMdata's PLM Vendor Forum, will be held in Ann Arbor, Michigan, USA on March 29; Heidelberg, Germany on April 17; Shanghai, China on April 20; and Tokyo, Japan on April 25. A new half-day Fall PLM Market & Industry Forum that builds on the spring events will be held in Plymouth, Michigan on October 1. The Fall PLM Market & Industry Forum will focus on market insights and trends.

CIMdata's 2012 PLM Market & Industry Forums are the premier industry events for PLM solution providers of all sizes. During the spring forums, CIMdata and the attendees will collectively explore the issues currently facing the PLM market. Sessions will offer insights into the current economic climate and trends, and their effect on the PLM economy; a detailed presentation on CIMdata's perspective on the state and trends of the current and future PLM market; and the first public exposure to CIMdata's analysis of 2011's PLM market results—including extensive analysis and forecasts regarding market growth across PLM domains, industries, and regions, and the performance (revenue and market share analysis) of leading PLM solution suppliers. Additional sessions will cover CAD and Analysis; Software as the Solution; Systems Engineering; Process and Mechanical PLM; and Social Computing and PLM. The new fall event will share information on insights and trends in the market based on CIMdata's experience with its extensive industrial client base. This half-day session will include feedback from the field about current and planned PLM implementations, and best practices. The fall event will also provide attendees with a preview of CIMdata's Collaborative Research Programs for 2012.

Participants in CIMdata's PLM Market and Industry Forums should expect to gain a solid understanding of the current PLM market situation, the dynamics impacting it, and expectations for its continued evolution. Attendees will have the opportunity to gain further insights into opportunities and approaches they can use to navigate the PLM market environment in the year to come. CIMdata's PLM Market & Industry Forum events also provide an opportunity to network with other professionals in the PLM community, including competitors, collaborators, and potential partners. In addition, attendees will have the opportunity to gain further insights into opportunities and approaches they can use to navigate the PLM market environment during the current times.

For more information and to register for the 2012 PLM Market & Industry Forum, please go to: http://www.cimdata.com/news_events/forums/2012/market_industry_forums.html

About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic management consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding in 1983, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM enabling technologies.

CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia Pacific.

To learn more about CIMdata's services, visit our website at www.CIMdata.com, follow us on Twitter: <http://twitter.com/CIMdataPLMNews>, or contact CIMdata at: 3909 Research Park Drive, Ann Arbor,

MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands. Tel: +31 (0) 495 533 666.

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Acquisitions

SAP to Acquire Software Provider datango AG

16 January 2012

[SAP AG](#) announced its intention to acquire software and relevant assets from [datango AG](#), a leading provider of workforce performance support software. The transaction, scheduled to close during the first quarter of 2012, will broaden the SAP® software portfolio in the education space, providing customers with software tools to help address their end-to-end user training, knowledge management and performance support challenges.

The datango solution provides content development, translation and deployment capabilities for electronic training, documentation, and user support. SAP ownership of this asset will enable the company to develop valuable integration with other SAP tools, leading to additional value for SAP customers. Features of datango's Electronic Performance Support (EPSS), including object recognition, true re-recording, extensive media support and modest IT requirements, along with existing SAP offerings in the education software space, will help SAP customers to lower their total cost of ownership (TCO), significantly facilitate end-user enablement in a scalable way and accelerate end-user adoption.

Headquartered in Berlin, datango was founded in 1999 and holds a long-standing and productive relationship with SAP. In recent years, the datango software has been successfully deployed in the [SAP® Business ByDesign™ solution](#). Together, SAP and datango will capitalize on a trend in education software toward creating applications that contain tools for authors, such as e-collaboration, along with self-help scenarios and auto-teaching functions.

"The workforce performance tools market has become increasingly strategic and critical to our customers' success, and datango is a proven leader in this space," said Markus Schwarz, senior vice president and global head of SAP Education. "By having its own product in this market, SAP can now deliver and accelerate innovations and produce robust content for our customers in the future."

The transaction is subject to the usual regulatory approvals.

To learn about the SAP Education organization, watch a video, "[SAP Education - Driving Quality and Value](#)," or visit the [Training & Education page on sap.com](#).

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Company News

Altair China Receives 10-Year Software Industry Achievement Award

20 January 2012

[Altair Engineering, Inc.](#) announced that Altair China (www.altair.com.cn) has been honored with a 10-Year Achievement Award as a leading enterprise in China's software and information service industry

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from 2001 to 2011. The award was presented at the China 2011 Software Conference by the China Software Industry Association (www.csia.org.cn) and the China Electronic Information Industry Development Academy (www.ccidgroup.com), and was based on criteria such as technical capabilities, innovative product offerings, strategic planning, business growth, brand awareness and customer service. Altair China was the only CAE solution provider to earn a prize at the event.

“We’re delighted that Altair China has earned this honor; it’s the best gift we could receive for our 10th anniversary,” said Herbert Qi, general manager of Altair Greater China. “In the past 10 years, we always have increased our ability to make customers the most competitive in their respective industries. Our good products and special technical service win our customers’ long-term support and trust, and we’ll be inspired by this honor to create more success in the future. ”

Altair’s business has developed rapidly since it entered the China market. Today, the company’s Shanghai-based unit has more than 70 employees and has exceeded 30 percent growth in the last five years. To provide customized service for its users in Northern China, Altair China set up a Beijing branch in 2005.

Altair entered the China market in July 2001, setting up Altair Engineering Software (Shanghai) Co., Ltd. as Altair’s China office, which managed the company’s operations for mainland China, Hong Kong, Macao and Taiwan.

Altair China’s customer base has increased steadily. In 2008, ASUS (www.asus.com) chose the Altair HyperWorks (www.altairhyperworks.com.cn) suite for consumer product engineering. In 2009, Chery Auto (www.chery.cn) selected Altair as its brand product-development platform partner. In 2010, Commercial Aircraft Corporation (www.comac.cc) began relying on HyperWorks and PBS Works (www.pbsworks.com.cn) as its CAE and HPC platforms for the development of large aircraft. This year, Shanghai Mitsubishi Elevator (www.smec-cn.com) selected HyperWorks as the CAE tool for product development.

About China 2011 Software Conference

The China 2011 Software Conference is hosted by the China Electronic Information Industry Development Academy (China CCID Group) and organized by China Software Testing Center, “Software and Information Service” magazine, “China Information World” magazine and Beijing CCID Corporation.

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Cadence Publishes Definitive Book on Advanced Verification for Today's ICs

17 January 2012

Cadence Design Systems, Inc. announced that it has published a new book to aid verification engineers. "Advanced Verification Topics" describes in great detail the latest techniques and methodologies for verifying today's most complex IP and systems on chips (SoCs). Penned by eight Cadence verification experts, "Advanced Verification Topics" builds on the prior Cadence® book, "A Practical Guide to Adopting the Universal Verification Methodology (UVM)." The new book delves into such topics as metric-driven verification of digital and mixed-signal designs, low-power verification using the UVM, multi-language UVM, and acceleration for the UVM.

"With the march toward greater design complexity showing no sign of abating, comprehensive verification is essential for a company to achieve its profitability goals," said Hao Fang, IP design

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manager at LSI. "Advanced Verification Topics' will be an important reference book for teams responsible for verifying complex mixed-signal IP and SoCs that utilize low-power, verification IP (VIP), transaction-level models (TLM), acceleration, and similar techniques to reduce risk while getting end products into working silicon faster."

The 229-page "Advanced Verification Topics" is available now at Amazon.com and Lulu.com.

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Cimatron Appoints Largest Reseller in China

17 January 2012

[Cimatron Limited](#) announced that its subsidiary, Cimatron China, has signed an agreement with China's leading integrated IT service provider, Digital China Holdings Ltd ("Digital China"). The agreement makes Digital Holdings the country's largest independent reseller of the Cimatron Group's product lines, CimatronE and GibbsCAM.

"Cimatron now has over 20 resellers throughout China, and recognition of our brands among the country's manufacturers has never been higher," said Ms Lang Yan, General Manager of Cimatron China. "Our new strategic relationship with Digital China will further boost the reach of Cimatron's solutions, as well as increase the high service standard that we offer our customers."

Digital China is the largest integrated IT services provider in China. It offers eight major business segments, including IT planning, business process outsourcing, application development, system integration, hardware infrastructure services, maintenance, hardware installation, and distribution and retail. With regional headquarters in Beijing, Guangzhou and Shanghai, as well as nine offices nationally, the company will serve as a sales agent and provide customer support for the CimatronE and GibbsCAM software solutions offered by Cimatron Group.

"Through our relationship with Digital China, we expect to grow our sales of the GibbsCAM product line, offering a state-of-the-art CAM software solution for programming high-end multi-axis CNC machine tools," said Ms Yan. "As Digital China is a general agent of Autodesk, it will now be able to leverage the fact that GibbsCAM is a certified Autodesk CAM partner, offering GibbsCAM as a way of supporting its customers' CAM needs." Additionally, through our relationship with Digital China, we expect to expand the sales of our CimatronE fully integrated CAD/CAM suite, which has dramatically optimized the engineering process of mold, tool and die makers, increasing their productivity and profitability."

For more information about Digital China, visit: <http://www.digitalchina.com/Public/Home.aspx>

About Digital China Holdings Ltd

Digital China Holdings Ltd (stock code 00861) is a leading integrated IT services provider in China. It was listed on the main board of the Stock Exchange of Hong Kong Ltd on 1 June 2001 following a spin off from the Legend Group. It focuses on providing customers with sophisticated and applicable IT solutions, driving technological innovations for work and life and enhancing the digitalization process in China. In order to achieve these goals, Digital China is striving to become the premier IT services provider with the most comprehensive services for a majority of Chinese users. Leveraging on its strategic partnership with over 100 leading IT vendors worldwide and a network of over 10,000 resellers and agents across the country, Digital China provides the best and most convenient IT services to users in China.

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GRAPHISOFT Signs MOU with Shanghai's Luban Software

16 January 2012

GRAPHISOFT Vice President of Business Development Miklos Szovenyi-Lux and Baoming Yang, Chairman of Luban, signed the Memorandum setting out the terms of their strategic partnership. Luban is one of China's top developers of cost estimation software for the construction industry.

Luban and GRAPHISOFT have agreed to establish a Luban-GRAPHISOFT Strategic Partnership Program with the following objectives: to promote and implement Building Information Modeling (BIM) in China's AEC industry; to strengthen the product integration, the brand and influence of Luban and GRAPHISOFT on the OPEN BIM design collaboration approach, thus supporting the growth of BIM in China; and contributing to the technical development of China's AEC industry. With a 40% share of China's cost estimation software market, Luban is keen on partnering with GRAPHISOFT so that ArchiCAD models developed in China will meet customer and regulatory needs.

During the course of the next three years, Luban and GRAPHISOFT will work closely to develop a connection between the respective company's products; create a BIM solution that is tailored to the Chinese market; implement BIM for bids, design, quantities, costs and construction management; and provide complete, BIM-based solutions at both the project and company levels.

About Luban

With over 100,000 customers, Luban has the largest sales and service network for engineering software in 29 provinces and more than 250 cities in China. The company currently has 40% of the cost estimating software market in China. Luban is also the leading provider of Building Information Modeling (BIM) solutions in China.

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KETIV Technologies Named Autodesk Q3 Reseller of the Quarter

19 January 2012

Autodesk, Inc. has named [KETIV Technologies](#) its third quarter Reseller of the Quarter for the Americas for the 2012 Autodesk fiscal year.

KETIV was selected from more than 200 Autodesk partners, in part due to a greater than 50% increase in software sales to customers in architectural, engineering and construction (AEC) and manufacturing, industries they have served for more than 25 years. New product sales increased substantially, also, with growth in horizontal markets as well as new and additional verticals business. KETIV's growth in subscription validates the company's commitment to customer satisfaction and dedication to customer retention. KETIV and Autodesk work closely to apply technical and consulting resources to help users fully implement the expanded Autodesk solution set.

KETIV is a Gold Partner, an [Autodesk Authorized Training Center \(ATC\)](#), and has earned the Autodesk Consulting Specialized designation. Serving the entire west coast, KETIV is a second time recipient of Reseller of the Quarter. Their most successful customers refer to the consultants and engineers at KETIV as an extension of their own teams.

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“To be named Partner of the Quarter two years in a row is a tribute to the consistency of our performance,” said Kanwar Anand, president and CEO of KETIV. “It speaks to our team’s technical and industry experience and, perhaps more than that, a genuine curiosity in our customers’ business and in the growing Autodesk solution set. Once we meet, we stay with the customer to ensure their ongoing success.”

Autodesk selects the Reseller of the Quarter based on exceptional sales growth, conscientious customer support, use of best practices, industry knowledge and dedication.

About KETIV Technologies

KETIV Technologies is a leading Autodesk solutions provider with more than 25 years' experience delivering CAD software and services in California, Arizona, Oregon, and Washington. Serving clients with a global presence in manufacturing, architectural, civil engineering, and process plant industries KETIV's team of industry experts increase the profitability of engineering companies by helping them simplify the process of conceptualization, design, production, and data management.

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Lectra and Walter Wilhelm Associates (WWA) Renew Their Global Partnership

18 January 2012

Lectra announced the renewal of its global partnership with Walter Wilhelm Associates ([WWA](#)) for a three year period.

"Our customers in the fashion world are increasingly aware of the strategic importance PLM plays and the immediate benefits a fashion and apparel-specific solution can bring to their development process. It is also critically important to find a partner who grasps the subtleties of this industry. With close to forty years of expertise and countless technology implementation projects between us, Lectra and WWA both understand the economic realities and challenges unique to fashion companies. Lectra's strength-and the strength of our partnership with Walter Wilhelm Associates-lies in an exhaustive knowledge of the tasks essential to apparel development, from design through product development and production," explains Daniel Harari, Lectra CEO.

Initiated in February 2009, this partnership and its renewal signify how well aligned the Lectra and WWA teams are. In an increasingly mature market focused on achieving greater profitability and reducing time to market, Lectra and WWA have been able to successfully complete a range of PLM initiatives, thanks to their combined expertise in fashion.

Lectra Fashion PLM combines management tools such as flexible workflow and sourcing functions, tailored to the needs of the fashion sector, with applications and features specific to job roles found in the fashion industry, such as textile and fashion design and product development. The arrival of this break-through technology in today's economy presents an opportunity for apparel companies to look at how they do business, re-assess their priorities and, quite simply, improve how they make what they sell.

"Deploying PLM in an unstable economic context demands quick implementation - often in no more than six months. At every stage of collection development, fashion companies want immediate proof of hard and soft ROI, regardless of whether project implementation is complete. This agile way of working requires knowledgeable process analysis based on industry standards and best practices, which Lectra Fashion PLM incorporates. Thanks to their respective industry experience, Lectra and WWA experts master this methodology," explains Walter Wilhelm, founder and CEO of Walter Wilhelm Associates.

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MSC Software Teams Up with UNED to Bring FEA Masters Program to Engineering Communities

19 January 2012

MSC Software Corporation (MSC) announced that it has teamed up with the Universidad Nacional de Educación a Distancia (UNED), Spain's biggest distance learning university with more than 200,000 students, to train postgraduates and professional engineers in Computer Aided Engineering (CAE) analysis and simulation with MSC's finite element software.

In collaboration with Ingeciber S.A., distributor of MSC products in Spain, UNED offers an International Master in Theoretical and Practical Application of Finite Element Method (FEM) and CAE Simulation. Though the FEM Master was first imparted in 1993, it was not until last year that Ingeciber started to use MSC's Patran and MSC Nastran for training purposes. Miguel Angel Moreno, General Manager of the company, expects the usage of MSC's CAE tools for education to promote software sales in Spain as companies tend to buy the tools their engineers are familiar with.

Enrollment for this year's semester closes on February 29th. To enroll or obtain more information, please visit <http://www.mscsoftware.com/feamasters>.

"The principal objective of the FEM Master is to improve CAE knowledge, not only among recently graduated engineers and scientists, but also among experienced professionals who want to broaden their skills in simulation and analysis," explains Moreno. The master addresses the growing demand of training in CAE technology through an adaptive educational program and distance program which allows students to achieve three different levels of expertise: CAE Expert, Specialist and Master. The program is oriented towards a rapid adoption of the "lessons learned" in professional life, using the most advanced CAE tools available on the market for practical lessons. Students have access to the UNED's modern e-learning infrastructure, including virtual classrooms, forums, video conferencing and local language tutorials, which support fast and flexible learning.

The FEM Master has a mechanical engineering and a civil engineering branch which share common lectures on FEM theory and material behavior. Best practices in mechanics are taught using Patran and MSC Nastran, which students can install on their personal computer as student versions. Civil engineers work with CivilFEM, a home grown CAE application for construction, which Ingeciber plans to migrate to the MSC Software Marc solver in the near future.

"Industrial products and public infrastructures are becoming increasingly complex," explains Kais Bouchiba, Senior Vice President Sales EMEA at MSC Software. "CAE technology is vital to be able to predict their behavior, evaluate possible alternatives and optimize their functionality in early stages of development. For this reason, mechanical and civil engineers need to know more about the finite element method and its application on different types of analysis. MSC Software not only provides the necessary CAE tools but also supports the joint efforts of UNED and Ingeciber to bring these tools closer to the engineering communities."

About UNED

The National University of Distance Education (UNED) is the largest university in Spain. The UNED is a distance university that offers a blended learning methodology. The UNED's model combines distance education, supported by digital technologies, and also face to face education, which takes place in Study Centers located in Spain, Europe, Latin America and Africa. The National Distance Education University

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(UNED) has as its mission the public service of higher education through the modality of distance education. For further information, click <http://www.uned.es>

About Ingeciber S.A

Ingeciber S.A. is a pioneer and consolidated engineering firm specializing in CAE services, software development and distribution. Since 1986, Ingeciber has been focused on supplying tools, technical support and training in CAE analysis, specially based on FEM and Mathematics Models Simulation, and also performing very advanced consultancy services for mechanical and civil engineering. For additional information about Ingeciber please visit <http://www.ingeciber.com>

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Siemens Extends Partnership with Frontal Software to Include Product Lifecycle Management Solutions

16 January 2012

Siemens PLM Software and [Frontal Software](#), an industrial IT solutions provider, announced a partnership agreement allowing the companies to help clients accelerate their adoption of PLM solutions.

Frontal Software has a dedicated PLM practice that offers end-to-end solutions for helping companies manage their engineering processes more efficiently.

Frontal Software's industry and process expertise will complement Siemens PLM Software's portfolio of solutions to deliver enhanced value to their customers in India. Frontal Software provides a complete spectrum of PLM-related services, from consulting and implementation to migration, installation and training. Siemens PLM Software's enterprise offerings include Teamcenter® software, NX™ software, and Tecnomatix® software.

We are extending our partnership over the past 25 years with Siemens to include PLM, CAE and digital manufacturing," said P. S. Sridharan, CEO, Frontal Software. "We are committed to building solutions that help companies manage diverse engineering and production facilities, drive productivity to achieve business goals and enable knowledge enrichment to constantly improve processes. These solutions will help customers eliminate inefficiencies anywhere in their engineering, manufacturing and project execution cycles, and better leverage their past experience."

"We are pleased to announce our partnership with Frontal Software and look forward to working with them to further enhance the success of our customers here in India," said Suman Bose, Managing Director, Siemens PLM Software, India. "Siemens PLM Software remains focused, not only on developing innovative solutions for our clients, but on creating partnerships that help streamline clients' access to those technologies. Frontal Software's industry domain knowledge and vast expertise in providing information solutions to manufacturers will provide significant business value to our clients."

About Frontal Software

Frontal Software is an industrial IT solutions provider offering solutions for engineering, construction, operation and maintenance of plants. With expertise to integrate with industrial automation, ERP and third party systems, the focus is to minimize data entry, automate routine tasks and provide exception alerting at every level of the organization to make each user activity more efficient and precise. Frontal Software has worked with customers in Metals, Power, Water and Utilities from requirement definition

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to implementation and customer training. For more information, visit <http://www.frontalsoftware.com/>

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Siemens PLM Software Technology Used by Nearly All Companies Unveiling New Vehicles at North American International Auto Show

20 January 2012

Siemens PLM Software announced that its technology is used in product development by more than 90 percent of the automotive original equipment manufacturers (OEMs) making new vehicle introductions at the 2012 North American International Auto Show, the industry's most substantive annual event, which this year reflects the recent resurgence of the global auto industry. As a result of the recent decisions by two major OEMs to replace their computer-aided design (CAD) and PLM systems with technology from Siemens PLM Software, the company has continued to expand its leadership and market share in the global automotive industry.

“Siemens PLM Software has created a strong tailwind of success for itself over the past 18 months in the global automotive industry based on a very well executed vision, backed by its robust and proven technology solutions and services,” said Peter Bilello, President of CIMdata, a global PLM management consulting and research firm. “With an already long list of automotive clients, the company further increased its market share in the industry by receiving significant new commitments from two major OEMs – Chrysler and Daimler. CIMdata now expects Siemens PLM Software’s position in the auto industry to continue to grow as the supply chain follows the lead of those OEMs and others.”

Siemens PLM Software’s technology is used by 15 of the top 16 global automotive OEMs to plan, evaluate and coordinate the development and manufacturing engineering of their vehicles. Siemens PLM Software satisfies the mission critical needs of leading automotive OEMs for managed collaboration across complex engineering functions and throughout the extended supply chain. By breaking down barriers between engineering functions, providing real-time access to information and performing analysis and simulation, Siemens PLM Software is helping its customers in their transition to a systems-driven development approach that delivers double digit efficiency improvements and facilitates smarter decisions that result in better products.

“As this year’s North American International Auto Show winds down, it is gratifying to see so many of our customers displaying incredible new products that were produced with the help of our software,” said Chuck Grindstaff, president and CEO, Siemens PLM Software. “As the global auto industry continues to come back strong from a very challenging economic climate, we are proud of the role our software, services and industry expertise have played and continue to play in that recovery. And we are confident that our tremendous success will continue as more and more automotive OEMs and suppliers embrace our HD-PLM vision as the PLM roadmap for their future.”

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Tech Soft 3D and SmartScape Formalize Preferred Partnership Agreement

16 January 2012

[Tech Soft 3D, Inc.](#) and SmartScape build on their 10-year relationship by announcing a new formal arrangement to support one another's business efforts. SmartScape, a Tokyo-based systems integrator and services provider, will use Tech Soft 3D's HOOPS Suite as the preferred toolkits for its development

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activities. Tech Soft 3D will in turn refer Japan-based customers to SmartScape for additional development projects.

The companies share a commitment to supporting an ecosystem for 3D PDF. Tech Soft 3D develops HOOPS Exchange and HOOPS Publish, both based on PRC, the native 3D format within PDF. SmartScape has extensive experience bringing 3D PDF enterprise solutions to the Japanese Manufacturing Industry, including technology from Tech Soft 3D partners ProSTEP AG and Tetra 4D, which respectively provide server-based CAD to 3D conversion, and the 3D PDF Converter Acrobat X Pro plug-in.

Takashi Yoshida, CEO of SmartScape, says, "Partnering with Tech Soft 3D will be a solid strategy to shape our slogan, 'Information Graphics Technology for Industry.' With a practical use of the sophisticated HOOPS Suite toolkits, we will provide applications that improve visualizing and organizing the information of the manufacturing process for our industrial customers."

About SmartScape KK

Since 2003, SmartScape has provided systems integration and software development services to the Japanese Manufacturing Industry. With a particular emphasis on PLM, Visualization, CAD data re-use and 3D PDF, SmartScape has proven to be a vital partner for companies such as Toyota Motor Corporation and Amada.

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WorkNC Dental CAD/CAM Website Now in Chinese

20 January 2012

To match the growing popularity of WorkNC Dental automatic CAD/CAM software in China, a Chinese version of Sescoi's WorkNC Dental website <http://www.workncdental.com> has just been launched.

The website, which has experienced a surge of visits each month, is now available in five languages: English, French, German, Spanish and Chinese.

Featuring dental machining videos, software screenshots, and a gallery of dental restorations produced with WorkNC Dental's 3-axis and 5-axis machining technology in a variety of materials, the website's "Dental Media Zone" draws the largest number of visits.

Numerous dental scanner and machine tool OEMs are already part of the WorkNC Dental CAD/CAM system, and these well-known names are listed on the website, along with the benefits of adopting this totally open dental CAD/CAM system.

The popularity of WorkNC Dental, the first 'easy to use' dental CAD/CAM system for dental technicians who are not machining experts, is reflected on Facebook, where the WorkNC Dental page has already drawn over a thousand fans. WorkNC Dental has also created a following in Chinese social media.

Dental labs owners and prosthetists can see WorkNC Dental in operation at a number of dental shows in the first quarter of 2012, including Dental Forum in Paris, Expodental in Madrid, the LMT Labday in Chicago and Dental South China in Guangzhou.

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Events News

Aras Sponsors the Microsoft Global Energy Forum

19 January 2012

Aras® announced that the company will sponsor Microsoft's Global Energy Forum 2012. Now in its 9th year, the annual Global Energy Forum addresses the operational challenges in the energy industry and provides insight into the latest technology innovations and solutions from exploration and discovery to extraction, refining, distribution and customer service.

The Global Energy Forum 2012 takes place January 31, 2012 at the Westin Galleria in Houston, Texas, USA. Aras will be featured in the Microsoft Solution Showcase, where attendees from the world's leading energy companies will learn about the innovative solutions on the Aras PLM platform for process management, regulatory compliance, enterprise asset management, business intelligence and more.

Aras Innovator is the only enterprise PLM suite to achieve certification on all of the Microsoft platform products including becoming Certified for SQL Server and Windows Server 2008 R2, along with the .NET Framework and Windows 7.

To learn more about Microsoft's Global Energy Forum, please visit

<https://www.ustechsregister.com/GEF2012/>

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AVEVA World Norway User Meeting Opens in Oslo

18 January 2012

AVEVA announced its inaugural AVEVA World Norway User Meeting has opened in Oslo at the Thon Hotel Bristol.

Being held over the next two days, 18th and 19th January 2012, the meeting is focused on new and updated technical products from AVEVA's engineering and design software applications. The event is open to any AVEVA customers from end users and CAD coordinators to engineering managers, based in Norway.

The User Meeting will bring together AVEVA users from the North Sea offshore oil & gas industry and will showcase AVEVA Engineering, the newly released 12.1 series of AVEVA Plant and AVEVA Marine portfolios, an update of the AVEVA Laser Modeller product and much more. Customer presentations will include Statoil, Aker Solutions and Reinertsen Engineering.

"We are delighted to be holding the inaugural AVEVA World Norway User Meeting," said Thomas Branden Sales Manager, Nordic Region. "With presentations from strong reference customers, product updates and networking, delegates will really see the business value of the event over the next two days".

AVEVA has a long and proud tradition of hosting technical and business events for existing and future customers, both internationally and at a local level. Visit <http://www.avevaworld.com> to learn more.

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CIMdata PLM Industry Summary

CGTech to Feature the Extended Composites Applications Suite at JEC 2012

18 January 2012

CGTech will feature the European debut of VERICUT Composites Paths for Engineers (VCPe) In **Pavilion 1, Stand R66** at the JEC Composites show, March 27-29, 2012 at the Paris Expo, Porte de Versailles.

VCPe provides all the features of the established VERICUT Composites Programming product (VCP) but without being configured to program a specific Automated Fibre Placement (AFP) machine. VCPe will allow design and production engineers to develop manufacturing strategies for composites parts and test for manufacturability in a virtual environment.

Visitors to the CGTech's stand will have the opportunity to receive a thorough overview of the steps needed to get from a CAD designed composite part to CNC programs that drive an Automated Fiber Placement (AFP) machine. There will be updated information on projects that highlight the implementation and use of machine independent off-line NC programming software for AFP machines. Current customer projects to be highlighted include: a large one-piece fuselage barrel on an Electroimpact multi-machine AFP fabrication cell; an aircraft inlet duct on a MAG Viper 1200 AFP machine; the challenges encountered supporting a flexible AFP gantry machine; layup of a U-channel structure on a 7-axis mTorres AFP machine; and aircraft skin panels and experiments using an AFP head mounted on a 6-axis robot such as KUKA or FANUC.

“Manufacturers of AFP machinery typically supply in-house developed off-line NC programming software with their machine, forcing companies to inconveniently adopt multiple software applications for multiple brands of machines,” said CGTech Product Marketing Manager Bill Hasenjaeger. “But to survive in this industry, a company must be able to select the best machine for the job, without the cost and risk associated with being locked to a single machine supplier.”

Throughout the show, CGTech will be demonstrating VERICUT Composite Applications: VERICUT Composite Programming (VCP) and VERICUT Composite Simulation (VCS). VCP reads CATIA, STEP, Siemens NX or ACIS models. It also reads FiberSim from Siemens-VISTAGY, CATIA or other external ply geometry and information. VCP then adds material to fill the plies according to user-specified manufacturing standards and requirements. Layup paths are linked together to form specific layup sequences and are output as NC programs for the automated layup machine.

VCS reads CAD models and NC programs, either from VCP or other composite layup path-generation applications, and simulates the sequence of NC programs on a virtual machine. Material is applied to the layup form via NC program instructions in a virtual CNC simulation environment. The simulated material applied to the form can be measured and inspected to ensure the NC program follows manufacturing standards and requirements. A report showing simulation results and statistical information can be automatically created.

CGTech will also be exhibiting its latest version of VERICUT CNC machine simulation and optimization software. VERICUT is CNC machine simulation, verification and optimization software that enables users to eliminate the process of manually proving-out NC programs. VERICUT simulates all types of CNC machining, including drilling and trimming of composite parts, water jet, riveting, robotics, mill/turn and parallel kinematics. VERICUT runs standalone, but can also be integrated with leading CAM systems such as CATIA, Siemens NX and PTC..

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CIMdata PLM Industry Summary

CGTech to Preview VERICUT 7.2 at WESTEC

17 January 2012

CGTech will demonstrate the next release of VERICUT CNC machine simulation and optimization software at the WESTEC show:

WESTEC Booth 2801 Los Angeles, CA March 27-29, 2012

VERICUT 7.2 features many enhancements to improve speed, thereby reducing the time required for manufacturing engineers to develop, analyze, inspect and document the CNC programming and machining process. Along with proactively adding new features, CGTech developers and engineers are focusing on implementing hundreds of customer-driven enhancements.

VERICUT Product/Function Overview:

VERICUT is CNC machine simulation, verification and optimization software that enables users to eliminate the process of manually proving-out NC programs. It reduces scrap loss and rework. The program also optimizes NC programs in order to both save time and produce higher quality surface finish. VERICUT simulates all types of CNC machine tools, including those from leading manufacturers such as Mori Seiki, Mazak, Makino, Matsuura, Hermle, DMG, DIXI, and Chiron. VERICUT runs standalone, but can also be integrated with leading CAM systems such as Catia, NX, Creo Parametric (Pro/E), MasterCAM, EdgeCAM, hyperMILL, Esprit and GibbsCAM.

“For VERICUT 7.2 we continue to focus on the customer's use of VERICUT and how we can improve the simulation process effectiveness,” said Bill Hasenjaeger, Product Marketing Manager. “We added features to the user interface to simplify the most common user actions and invested significant developer hours to increase speed by more thoroughly taking advantage of multiple processors and background processing.”

Another new feature is the ability to optimize an NC program from a saved simulation. Users can adjust and re-optimize without rerunning the simulation. A new interactive panel displays cutting conditions immediately anywhere in the machining process. The user can navigate the NC program to evaluate cutting conditions and quickly see the results of adjustments to optimization settings.

CGTech will also be demonstrating VERICUT Composite Applications at WESTEC. VERICUT Composite Applications are machine-independent off-line programming and simulation software solutions for automated composite tape and fiber-placement CNC machines. There are two separate applications: VERICUT Composite Programming (VCP) & VERICUT Composite Simulation (VCS).

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Countdown to SolidWorks World 2012: "Father of the iPod" to Keynote

20 January 2012

Just a few years ago, the iPod revolutionized personal electronics worldwide. Tony Fadell, the designer who spearheaded the team that brought the iPod to market, will keynote [SolidWorks World 2012](#), the Company's annual summit of engineers and designers. Dassault Systèmes SolidWorks Corp.'s SolidWorks World event will take place February 12-15, 2012, in San Diego, and focus on the theme of "united by design."

Known as the "Father of the iPod," Fadell made his mark via his former positions as Apple's senior vice

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president of the iPod division and adviser to Steve Jobs. Today, Fadell is changing the game again as founder and CEO of [Nest](#), a hot startup that's introduced the world's first learning thermostat. The Nest Learning Thermostat™ learns about you and your home to automatically turn itself down when you're away, guide you to energy-efficient temperatures when you're home, and free you from programming hassles by creating a customized temperature schedule. Nest has been dubbed the "iPhone of thermostats" by Wired and The New York Times describes it as "gorgeous, elegant and very, very smart."

"To create a game-changing product, function and design must go hand in hand," said Fadell. "We certainly put that principle to work when developing the Nest Learning Thermostat, and I'm excited to share more about that experience with the thousands of passionate, designers and engineers who will attend this year's SolidWorks World."

To this end, crowdsourcing will be a hot topic on Day 2 of SolidWorks World. Social development is becoming increasingly important to product ideation and creation, and SolidWorks customers will showcase how it's easier than ever to bring ideas to fruition. With an engineering-focused hive mindset, creativity and expertise come together in incredible products. Stay tuned for more ideas that will change the way you think about product development.

Day 3 of the event will bring the What's New session. Attendees will get a sneak peek of SolidWorks 2013, as well as a view of what's on schedule for SolidWorks--and its users--this year.

Kevin Goosie, an engineering designer at SAIC, who tweets at @kgoosie, will be this year's official Internet Correspondent. He will be blogging about SolidWorks World 2012 on the [SolidWorks blog](#).

Users can connect with SolidWorks World 2012 online through the following vehicles:

- [DS SolidWorks Forums](#)
- [DS SolidWorks Blog -- SolidWorks World 2012 topics](#)
- [DS SolidWorks on Twitter](#)
- [SolidWorks World 2012 account on Twitter](#)
- SolidWorks World 2012 hashtag (#SWW12)
- [DS SolidWorks on Flickr](#)
- SolidWorks World 2012 Flickr
- [DS SolidWorks on YouTube](#)

A complete agenda is available online. Users can register for SolidWorks World 2012 at: <https://registration.itnintl.com/sww12/regonline/RegLogin.aspx> . Early Bird discounts end on January 20.

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Delcam to Launch New Dental Milling Software at Dentistry Show

18 January 2012

Delcam will launch the 2012 version of its DentMILL computer-aided machining software for dental restorations on stand M10 at the Dentistry Show to be held at the NEC, Birmingham, on 2nd and 3rd March. Highlights of the new release include an easier-to-use interface, closer integration with the

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DentCAD design software and Delcam's OrderManager software to give a faster and more efficient workflow, more efficient nesting to allow improved material usage, and new strategies offering smoother machining and better surface finish.

DentMILL makes it easy for technicians with minimal experience of computer-aided manufacturing to produce restorations using the latest machining technology. It is based on Delcam's PowerMILL CAM system. This allows the software to offer a far wider range of proven machining strategies than is available in other dental CAM programs.

This range of strategies allows all types of dental restoration to be produced rapidly and accurately. In particular, the availability of advanced five-axis machining options helps to reduce material wastage, minimise hand finishing operations by removing undercut regions, and give more flexibility when machining crowns and bridges.

DentMILL is part of Delcam's complete, closely-integrated dental solution, which covers every stage from accurately capturing the implant position and orientation, through to the high-precision, multi-axis milling of restorations, with a management system to track every stage of the process. Even though Delcam is the only company able to offer such a complete solution, the company remains committed to its drive to replace "closed" manufacturing methods, in which the user is restricted to the use of a limited range of equipment and materials, with "open" systems, in which manufacturers can combine their own choice of equipment and software, and then use a broad variety of materials. Thus, DentMILL can take models from most dental design systems and generate toolpaths for a range of machine tools.

The most obvious change to DentMILL is improved integration into the DentCAD workflow, including the introduction of a new user interface that replicates the easy-to-use style introduced in the 2010 version of DentCAD. This features a reduced number of toolbars to allow the maximum screen space for toolpath generation and simulation, together with bolder and clearer icons. The new interface has been designed in association with dental laboratories and milling centres to ensure that technicians with limited experience of computer-aided machining will find the software easy to learn and to use.

Material use has been made more efficient with improved and more flexible nesting tools to position the various restorations within the block. In particular, the ability to apply part-to-part pinning has been added, rather than having to use separate sintering pins for each restoration. This increases the number of parts that can be positioned within the block so improving material utilisation.

Background processing in DentMILL allows toolpath calculations to be started on the first items added to the block, while the remaining restorations are still being positioned. This approach reduces the overall calculation times significantly.

DentMILL has also benefited from enhancements to the latest version of PowerMILL. These include a number of new strategies that offer smoother machining to give the best possible surface finish.

Closer integration has also been added between DentMILL and Delcam's OrderManager workflow management software so that the system is updated automatically with manufacturing data as it is generated. The additional automation makes it easier to use the system to manage all the manufacturing steps through to eventual dispatch, and to maintain a 'real-time' view of the centre's total order status. Delcam's OrderManager can be used with the full variety of manufacturing methods as it can easily be tailored to manage any milling centre's individual process steps.

As well as incorporating a high degree of automation, the system has been designed to be extremely easy to use for staff at both the laboratory and the milling centre, thus minimising administration time

whilst maximising feedback. All stages of each transaction are logged, providing complete traceability for every order.

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Delcam to Launch PartMaker Modeling at WESTEC 2012

19 January 2012

Delcam's PartMaker Division will launch PartMaker Modeling on **booth 2812** at the Westec exhibition to be held in Los Angeles from 27th to 29th March. PartMaker Modeling has been made available as part of the recently released PartMaker 2012, which will make its West Coast debut at the exhibition.

PartMaker Modeling is a 3D design tool developed specifically for the needs of CNC manufacturers. It lets users create, repair and modify 3D CAD data of any origin or level of quality and make flawless solid models they can use for the most efficient level of machining, CNC programming and 3D simulation.

"The engineering demands being faced by part manufacturers are becoming greater and greater in today's increasingly competitive global manufacturing arena," says PartMaker Division President, Hanan Fishman. "To help our customers compete and thrive, we are providing them with a powerful yet easy-to-use tool to help them keep pace with these demands."

PartMaker Modeling is a hybrid modeler working with surfaces and solids. It incorporates Parasolid™, the world's most widely used solid modelling kernel, to provide high quality solid models that can be used at any level of the supply chain.

PartMaker Modeling gives PartMaker users the most powerful 3D design tool of any PC-based CAD system, allowing for 3D modelling, direct modelling of dumb solid models and data repair in a manner other CAM systems simply do not and cannot offer.

PartMaker Modeling is a very easy to use, yet versatile and powerful CAD system, delivering state-of-the-art tools directly to the desktop. It is based on Delcam's proven PowerSHAPE 3D design package and has been specifically tuned to the needs of part manufacturers.

PartMaker Modeling integrates with PartMaker. 3D models can be quickly cut and pasted between the applications. PartMaker Modeling is developed and supported directly by Delcam, making Delcam a 'one stop' solution for customers' CNC programming and design applications, eliminating the need to hunt for multiple CAD and CAM vendors or to pay multiple maintenance agreements.

In addition to PartMaker Modeling, PartMaker 2012 includes a host of new functionality across the entire suite of applications including improved visualization, more powerful simulation of vertical and horizontal machining centers, support for the latest breed of multi-axis bar-fed mills, turn-mill centers and Swiss-type lathes, greater flexibility and control in process development and much, much more.

"PartMaker 2012 will help our customers continue to 'raise their game' to stay ahead in an increasingly competitive manufacturing landscape," says Mr. Fishman. "PartMaker 2012 includes an array of new features and functionality that will benefit every PartMaker user. There's just so much for PartMaker users to be excited about."

Variable Depth Cylindrical Milling

A new, powerful 3D surfacing strategy has been added as an enhancement to the Surface Machining

Wizard (SMW) module. This new strategy allows the user to perform 3D surface machining using cylindrical interpolation. This powerful, new rotary machining functionality allows for creation of more complicated part features for complex parts being made on 4-axis Mills, Turn-Mill Centers and Swiss-type lathes.

Simulation of B-Axis Gang Style Swiss-Type Lathes

PartMaker 2012 supports the simulation of the latest generation of Swiss-type lathes, those equipped with a programmable “B-Axis” on a gang slide. This allows users to take advantage of the newest breed of B-axis enabled gang-style Swiss lathes, to better understand the benefits of using B-axis gangs for their ability to add more live tooling in a single set-up, and to simulate and collision check complex 5-axis simultaneous tool paths. This improved simulation supports models from the leading Swiss-lathe builders offering machines with this unique architecture.

Full Machine Simulation for Milling

PartMaker 2012 extends the software’s powerful Full Machine Simulation technology to vertical and horizontal machining centers as part of the new Kinematic Milling Simulation (KMS) module. This new functionality in PartMaker Mill simulates the kinematic motion of a CNC Milling machine’s programmable axes. It supports 3, 4 and 5-axis vertical mills as well horizontal and vertical tombstone set-ups, and provides more realistic simulation and more comprehensive collision detection.

Set-Up Assemblies for Milling

Fixture models can be imported into the PartMaker programming environment to simulate toolpaths for vertical and horizontal milling machines in a more realistic manner, helping to avoid collisions between tools and work holding. The new Set-Up Assembly Feature, part of the new Kinematic Milling Simulation (KMS) module, allows the user to quickly designate the various components as a stock, fixture or machining table in a visual and intuitive manner. Fixture models can be imported from virtually any 3D CAD system or directly cut and pasted from Delcam’s PowerSHAPE.

Multiple Process Drag and Drop Selection

PartMaker 2012 allows the user to optimize and rearrange machining processes faster and easier than ever before. The new version allows processes to be simply dragged and dropped into place on PartMaker’s Process Table. It also lets multiple processes be selected and moved at the same time, rather than having to move processes individually, as was the case before.

Support for New Bar-Fed Mill and Multi-Axis Lathe Architectures

PartMaker 2012 supports a number of new, cutting-edge architectures found on today’s latest bar-fed mills and turn-mill centers. This new technology has been developed in concert with a number of the industry’s leading machine tool builders. It includes support for unique machine tool architectures such as the Star SF and Mori-Seiki NTX, where the sub-spindle can work at articulated positions in addition to the articulation of these machines’ tool head in the B-axis plane.

Enhanced Tool Path Visualization and Control

Much improved visualization is now available across the entire PartMaker applications suite. This enhanced visualization includes the ability to display a 3D model of the stock being machined at any time without having to import a solid model, as well as the ability to see toolpaths and toolpath verification on a 3D stock model even when no 3D model is available. Doing so allows the user to see the part in 3D before going to machining simulation, speeding up programming and reducing the chance

of error. Additionally, the visualization and creation of tool path Approach and Escape points have been improved by allowing these points to be quickly defined with convenient snap modes. Approach and Escape points can also be much more clearly visualized after creation.

Additional Productivity Enhancements

In addition to the improvements mentioned above, PartMaker 2012 includes a host of other productivity enhancements including the ability to directly output PartMaker's graphical set-up sheets to Microsoft Excel, a direct Copy/Paste functionality from PowerSHAPE, 64 Bit version availability, tapered thread milling support, improved, more robust network licensing, more flexible sub-spindle control for twin-spindle machines, improved CAD data translation, crisper rendering of imported solid models and improved 4- and 5-axis milling table definition.

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Delcam GmbH to Show Latest in CAM at METAV

17 January 2012

[Delcam GmbH](#) will demonstrate the latest versions of its range of CAM software within the CNC Arena at the METAV exhibition to be held in Dusseldorf from 28th February to 3rd March. The company enjoyed its most successful year to date in 2011, with software sales increasing by almost 25%, and expects that METAV will provide a boost to this year's business.

The Delcam range of CAM software comprises FeatureCAM for feature-based programming, PowerMILL for high-speed and five-axis machining, PartMaker for the programming of turn-mill equipment and Swiss-type lathes, and Delcam for SolidWorks, the integrated CAM system for SolidWorks. The 2012 versions of all these programs will be shown at METAV.

FeatureCAM 2012 includes a range of enhancements to give even easier and faster programming for production machining on lathes, mills and mill-turn machines. Two new strategies that have been added are back boring and spiral roughing. Back boring allows more parts to be completed in a single set-up, with larger bores able to be produced on the reverse side of the part. Spiral roughing can be used instead of Z-level roughing. It uses a single continuous toolpath instead of a series of levels, giving a smoother toolpath with less wear of the cutter and machine tool.

The most important enhancement in PowerMILL 2012 is Flowline Machining. This dedicated strategy for high-speed machining divides the toolpath between a pair of drive curves in a constant number of passes, rather than having a varying number of passes with a constant stepover. This approach gives fewer sudden changes of direction and so produces a superior surface finish. Other enhancements include more control over point distribution during five-axis machining, more options to apply clearance distances to the cutter and holder, and more options to customise the software with the PowerMILL macro language.

Major highlights of PartMaker 2012 include a new module for the simulation of vertical and horizontal machining centres, improved simulation for the latest breed of multi-axis, turn-mill and Swiss-lathe machine architectures, more powerful surface machining strategies, and improved program visualization, as well as a host of additional productivity enhancements.

The 2012 version of Delcam for SolidWorks includes programming of wire EDM for the first time, alongside the comprehensive options for the programming of turning, mill-turn, drilling and two-through five-axis milling.

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Lectra Showcases Full Range of Fashion Solutions at Intermoda Guadalajara in Mexico

16 January 2012

Lectra will exhibit at Intermoda January 17-20, 2012, at the Expo Guadalajara, in Guadalajara, Mexico.

At **Lectra's stand (4102-4104-4106-5103-5105-5107)**, the company will present a full range of its solutions, from design to production. Working in conjunction with its education partner Universidad Jannette Klein, students will create designs during the show using Kaledo®, Lectra's professional textile and fashion design software solution, which accelerates the design processes by automating repetitive tasks, and improving communication and collaboration.

Lectra will also team up with The Camara Nacional de la Industria del Vestido, which will participate in the Lectra stand, providing a 3D body scanner. Working with the 3D body scanner, Lectra will demonstrate Modaris® V7, the company's latest version of its apparel pattern-making and grading software solution, now fully-integrated with 3D prototyping technology developed by Lectra. Modaris V7 combines the best of pattern-making, draping, and sampling all in one seamless digital process where 2D patterns can be drafted and then seen in 3D right away. Utilizing design files created in Kaledo, specified fabrics can be viewed in 3D and other onscreen adjustments can be directly applied to the flat pattern while modifications are visible in real time, in both flat and 3D modes. This interactive process significantly reduces prototyping costs and development time while giving companies the control and flexibility they need to make decisions as quickly as possible and stay ahead of the market. Modaris and its 3D Technology can not only reduce the number of physical samples by half, it is also valuable during the decision-making stage when choosing whether a product goes into production.

Attendees will also have the opportunity to learn more about Diamino®, Lectra's marker-making solution which produces automatically generated markers that respect all fabric and garment constraints from the simplest to the most complex shapes, as well as, experience Lectra's high performance Alys® inkjet plotter that prints patterns and markers quickly and accurately, to round out the production process.

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More Power for VERICUT 7.2 - Previewing at MACH 2012

19 January 2012

CGTech Ltd will demonstrate the next release of VERICUT CNC machine simulation and optimisation software on **stand 5230** at MACH 2012.

VERICUT 7.2 features many enhancements to improve speed, thereby reducing the time required for manufacturing engineers to develop, analyse, inspect and document the CNC programming and machining process. Along with proactively adding new features, CGTech developers and engineers are focusing on implementing hundreds of customer-driven enhancements and also harnessing the power of Windows 7 with 64-Bit multi-core processors to deliver greater performance.

VERICUT Product/Function Overview:

VERICUT is CNC machine simulation, verification and optimisation software that enables users to eliminate the process of manually proving-out NC programs. It reduces scrap loss and rework. The

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program also optimizes NC programs in order to both save time and produce higher quality surface finish. VERICUT simulates all types of CNC machine tools, including those from leading manufacturers such as Mori Seiki, Mazak, Makino, Matsuura, Hermle, DMG and Chiron. VERICUT runs standalone, and integrates with leading CAD/CAM systems such as Dassault Systemes CATIA, Siemens NX, Creo Parametric (Pro/E), Open Mind's hyperMILL, Delcam's PowerMILL, MasterCAM, Edgecam and GibbsCAM.

More Processing Power

“For VERICUT 7.2 we continue to focus on the customer's use of VERICUT and how we can improve the simulation process speed and effectiveness,” said John Reed, CGTech Ltd Managing Director, “We added features to the user interface to simplify the most common user actions and invested significant developer effort to increase speed by more thoroughly taking advantage of multiple processors and background processing.” The result is that VERICUT 7.2 is significantly faster than previous versions with no compromise on accuracy”.

Enhanced Optipath Feed Rate Optimisation

Another new feature is the ability to optimise an NC program from a saved simulation. Users can adjust and re-optimize without rerunning the simulation. A new interactive panel displays cutting conditions immediately anywhere in the machining process. The user can navigate the NC program to evaluate cutting conditions and quickly see the results of adjustments to optimisation settings.

More Cadcam Integration

VERICUT is firmly established as the world's leading independent CNC Simulation and Verification software. This has driven demand for more interfaces to popular CAD/CAM systems and visitors to the CGTech stand at MACH 2012 will be able to see new interfaces to Delcam's FeatureCAM, SolidCAM and Esprit.

A New Vericut Composite Applications Product

CGTech will also be demonstrating VERICUT Composite Applications at MACH 2012. VERICUT Composite Applications are machine-independent off-line programming and simulation software solutions for automated composite tape and fiber-placement CNC machines. There are three separate applications: VERICUT Composite Programming (VCP) and VERICUT Composite Simulation (VCS) are already released to the market. A third module, VERICUT Composites Paths for Engineers (VCPE) will be launched in the UK at the MACH show. VCPE has all the features of VCP but is not configured to program a specific Automated Fibre Placement (AFP) machine. VCPE provides software tools to allow a design or production engineers to evaluate strategies and test the manufacturability of layup methods for composites parts.

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New Waveform Roughing; One of Many Enhancements on Show at Southern Manufacturing 2012

18 January 2012

A new Waveform Roughing Strategy offering even greater stability, more precise machining and faster metal removal, is a major enhancement in the latest release of Edgecam, exhibiting on **stand Q36** at Southern Manufacturing in February 2012.

As well as Edgecam, the new 2012 releases of other software from the same stable will also be on

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display: Radan, sheet metal CAD/CAM software; Alphacam, which provides CAD/CAM solutions for 2D parts through to complex 5-Axis applications; and the Javelin ERP/MRP system.

Now in the standard license of Edgecam for all users, the new Waveform cuts cycle time from 63 minutes to just 18 minutes, and improves the metal removal rate from 30cm³/min to 135cm³/min. In addition, the constant tool load path and smooth toolpath pattern improves tool life. Also in Edgecam 2012 R1, the new Flow Surface cycle follows the flow of the surfaces, offering improved surface finish, helical support to reduce link moves, and multiple face support, making it ideal for machining fillets and 3D surfaces.

Amongst the enhancements in Alphacam 2012 R1: new and improved 3D machining strategies, including the new Constant Cusp strategy which gives a more consistent surface finish over the entire part, and new Tool Axis Conversion methods for 4- and 5-axis normal to surfaces or solids, along with improved Toolpath Associativity and Operation Editing/Updating, and Solid Viewing Support for all modules and levels.

Radan 2012 R1 includes Enhanced Tagging, giving users greater control over the application of tags and micro joints; additional functionality on common cutting, giving intelligent nesting for complex parts; and enhancements to unfolding within Radbend mean the 3D model is now automatically updated with the information from Radbend and can be bent within the correct parameters as specified. Also, programming punching and combination machine tools now has the added assistance of a new interactive and dynamic tool list, which lets users view the suitability and usage of a machine and its tools, as well as verifying loading the tool within the machine.

And Javelin contains a lot of new functionality that has been specifically requested by customers. Within real time data capture jobs can be suspended but automatically restarted allowing users to be diverted from tasks but resume later with minimum interfacing time; greater control over Consignment Stores has been introduced allowing them to be assigned to a customer and affording similar stock control facilities to normal stores; and items normally bought specifically on a contract by contract basis can now be purchased in advance of the contract and held for re-assignment when required, either manually or via MRP.

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Newly Released Mastercam X6 in Action at WESTEC 2012

January 2012

WESTEC 2012 will feature the latest in the line of Mastercam machining software. Stop by **booth # 2612** at the Los Angeles Convention Center, Los Angeles, CA, **March 27-29** for a look at Mastercam X6, the latest release, which introduces significant new capabilities, including new stock models, Mastercam Blade Expert, the new OptiRest toolpath, Hybrid Finish Filler Passes, and so much more.

Stock Model

A precise machining stock model delivers a variety of benefits—viewing and verifying work as it progresses, performing stock model comparisons, and easily choosing existing stock for rest machining. Mastercam gives you the power to create accurate, fully-associative stock models at any point in your machining process.

Blade Expert Add-on

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Mastercam Blade Expert greatly simplifies the toolpath creation process for any multi-bladed parts, including fans, propellers, impellers, turbines, marine screws, and more. There is no limit to the number of blades, splitters, or sub-splitters that can be programmed. Blade Expert includes a variety of powerful and flexible multiaxis roughing strategies. Automatic tool axis control ensures smooth machine motion.

OptiRest Toolpath

Mastercam's latest 3D High Speed Toolpath performs Rest Milling operations to remove remaining material with optimized roughing motion. This powerful new toolpath can use the new stock model functionality for defining stock removal areas.

Hybrid Finish Filler Passes

3D high speed Hybrid toolpaths now maintain all of the Z level cuts in the steep areas of your parts while filling in the shallow areas with scallop motion within a single Z section. These toolpaths combine the best of both worlds with waterline (constant Z) motion and scallop where needed. Now you can have both waterline and scallop motion at the same Z section, section after section. The result is a much better finish and more efficient use of the tool.

More powerful tools in Mastercam X6 include:

- 2D HST Region Chaining
- 2D HST Dynamic Toolpath Improvements
- Mastercam Lathe Variable Depth Roughing
- 64-bit support
- OptiRough strategy now offers OptiCore and OptiArea
- Facing and Canned Groove toolpaths
- New Autosync Rails
- Wirepath Editor improvements

For more information on Mastercam X6, and to view videos on the new software features, please visit <http://www.mastercam.com>.

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OPEN MIND Technologies at SolidWorks World 2012

16 January 2012

The SolidWorks World 2012 Conference is taking place at the San Diego Convention Center from February 12-15, 2012. For these four days, this event will once again be the industry meeting place for SolidWorks® users from all over the world. OPEN MIND Technologies will present its CAM solution hyperMILL® as a fully integrated solution for SolidWorks® at **booth 412** in the Sails Pavilion. For the first time the current release hyperMILL® 2011 is presented in the United States.

hyperMILL® is available to all SolidWorks® users in their own familiar software environment. The current version includes many new features and functions to achieve more performance and less programming time. hyperMILL® 2011 is based on automated programming and the clever utilisation of existing manufacturing know-how, by offering various functions that help you gain time-saving

workflows. New strategies and optimisation functions are available in 2D machining as well as 5axis simultaneous milling and turning. General functions, such as enhanced stock definition and rest material display, or the job-list-based editing of tool paths, simplify daily work. Highlights like intelligent macros, new 5axis shape offset machining and the hyperMILL® API offer several new ways to program and manufacture more efficiently. Visitors will have the opportunity to learn about the advantages and potential of hyperMILL® for SolidWorks® both at **OPEN MIND's booth, number 412**.

5axis machining and optimisations

New functions and optimised strategies further lower the programming burden and help to obtain better milling results. The new shape offset roughing and finishing function offers a strategy for the 5axis machining of surfaces with a uniform offset, with simple programming and while avoiding the formation of 'stair-steps' that would be common with Z-level roughing approaches. Improved 5axis swarf cutting results in better surface quality. New contour milling features allow for better control when using large milling tools.

Further time savings with 64-bit support

64-bit support means that users have more memory at their disposal. This means that many calculations can be carried out considerably faster. These features are especially useful when machining large models, which require a large number of job steps and toolpaths. hyperMILL® users thus benefit from further time savings in their day-to-day work.

Seamless integration for continuous processing

Thanks to the integration of hyperMILL® for SolidWorks®, continuous processes can be implemented using a unified database. Both the CAD and CAM systems use the same data model. The result is a high degree of transparency and error prevention throughout the entire machining process. This also means that SolidWorks® users always work under the same user interface. The hyperMILL® CAM software can be accessed via the SolidWorks® interface using the hyperMILL® button. hyperMILL® offers CAM strategies for every requirement: All 2D, 3D, HSC and 5axis milling strategies, right through to mill-turning and special applications are available directly within SolidWorks®.

hyperMILL® for SolidWorks®: Certified Gold Product

In designating hyperMILL® as a 'Certified Gold Product', SolidWorks® conferred its highest award based on outstanding integration, quality and interoperability in relation to its own CAD environment.

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

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Oracle PartnerNetwork Hosts Inaugural Oracle Applications and Industry Partner Summit

19 January 2012

News Facts

Further providing partners the enablement resources they need to learn and grow with Oracle, [Oracle PartnerNetwork \(OPN\)](#) hosted its inaugural Oracle Applications and Industry Partner Summit last week in Arizona.

Welcoming more than 350 senior sales and practice leaders from 80 leading System Integrators from across North America, the event offered partners the strategies and resources they need to extend their

CIMdata PLM Industry Summary

service and solutions offerings and drive enhanced revenue and customer opportunities with Oracle technology.

The event, which will take place annually, featured commentary from Oracle customers, partners, and top Oracle executives:

Keith Block, Executive Vice President, Oracle North America

Thomas Kurian, Executive Vice President, Product Development

Sonny Singh, Senior Vice President, Industries Business Unit

Block shared Oracle's strategy and momentum and explained why there has never been a better time to partner with Oracle. He also shared his perspective on the competitive landscape and insight from global customers.

Kurian shared upcoming roadmaps for Oracle Applications and discussed how partners can capitalize on new opportunities around Oracle's Fusion Application and Cloud offerings.

Singh outlined Oracle's comprehensive go-to-market strategy across numerous industries and explained the opportunity for partners to jointly collaborate with Oracle for industry success.

In addition, the summit highlighted joint partner opportunities for increased industry-specific selling and provided industry specific break-out sessions offering ideas and best-practice strategies across 12 unique industries.

OPN is dedicated to expanding and improving its partner enablement offerings. Since the inception of the OPN Specialized program:

More than 47 applications or industry-specific Specializations from industries have been made available to partners.

1,800 partners have achieved nearly 6,000 Oracle Application or industry Specializations.

More than 59,000 Industry and Application Boot Camp Training days have been conducted with 12,200 taking place in FY12 alone.

More than 11,000 Individual Certified Implementation Specialists have achieved Application/Industry-specific accreditations.

Supporting Quote

“Without question, Oracle's leading technologies and our partners' undeniable services and solutions expertise create a winning proposition for customers,” said Tyler Prince, group vice president North America Alliances & Channels Applications and System Integrators. “A significant opportunity exists for our partner community to work in tandem with Oracle to build, sell and deliver unique solutions and services to a wide range of industries. The inaugural Oracle Application and Industry Partner Summit was designed to arm partners with the tools, techniques and information they need to drive a competitive edge and accelerate joint selling with Oracle.”

Supporting Resources

[Oracle PartnerNetwork \(OPN\)](#)

Connect with the Oracle Partner community at [OPN on Facebook](#), [OPN on LinkedIn](#), and [OPN on YouTube](#) and [OPN on Twitter](#)

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ProSTEP iViP Symposium 2012 - Register Now and Save

January 2012

On May 9th and 10th international experts and visitors will meet for the 2012 ProSTEP iViP Symposium 2012 in Hamburg, the place, where executives and industry experts will exchange experiences and discuss common strategies for the future.

In more than 45 lectures the conference will present concepts and solutions for today's challenges surrounding the topic of Managing Globalization – Processes and Systems. Workshops and live-demonstrations in the accompanying exhibition will provide further opportunities to deepen the discussed subjects.

For the 15th time in a row the ProSTEP iViP Association invites together with the premium sponsors Airbus and PTC - Parametric Technology - the expert audience to a diverse and first-class program, that by tradition pays particular attention to cross-company and cross-domain aspects.

The early-booking discount has been extended. Save about 10% of the regular registration fee until 02.02.2012.

The program, including 3 parallel lecture series and specialized workshops in German and English will be published at the end of January under <http://www.prostep.org>.

For more information on the ProSTEP iViP Symposium as well as the registration form please consult our website at <http://www.prostep.org>.

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Register Now for Inforum 2012

20 January 2012

Registration for Inforum—April 22–25 in Denver, Colorado—is now open for all Infor customers, so register today. Visit the [Inforum 2012](#) website and secure the Early Bird registration rate of \$1,695. The Early Bird rate ends February 17, 2012.

Infor is bringing back its big event—Inforum—and partnering with Lawson to continue another—Lawson CUE—for a new and unique experience.

At Inforum 2012, you will:

Experience the excitement and momentum of the New Infor.

See the innovation driving our newest products like Infor10, ION, Workspace, CloudSuite, and InForce Everywhere.

Test-drive our newest products.

Meet the Infor and Lawson leadership teams.

See for yourself what they mean by “Specialized by Industry. Engineered for Speed.”

Learn how to make speed a competitive differentiator in your business.

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Inforum 2012 will also deliver a great event experience, giving you the chance to:

Expand product knowledge via more than 700 education sessions, product labs, and the expo hall.

Access product, industry, and partner experts for even deeper one-to-one learning opportunities.

Exchange ideas and insights with your peers.

Hear directly from Infor executives about our vision, product direction, and commitment to innovation.

Learn about Infor's many innovations and momentum in enterprise software:

Hear their corporate vision and strategy from Infor and Lawson's new leadership teams.

ION: Lightweight middleware—the industry's first document-based engine that powers integration, business process automation, and embedded intelligence.

ION Connectors: Link Infor apps to third-party apps, including SAP and Oracle.

Workspace: Experience the consumer-grade, next-generation UI.

InForce Everywhere: Major partnership with Salesforce.com to combine ERP and SFDC.

Infor CloudSuite: Realize fully functional applications in the Cloud.

Infor Motion: Take advantage of enterprise apps anywhere.

Learn about recent acquisitions and how they increase the value of your Infor applications.

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Financial News

CDS Announces >30% Growth Driven by Industrial Suppliers Adapting to the New Selection and Buying Process

17 January 2012

CDS (Catalog Data Solutions) announced greater than 30% revenue growth in 2011 compared to 2010.

“As product selection and buying continues to change and evolve, sales and marketing organizations need to continually adapt and come up with ways to get in front of the selection and buying cycle. Our accelerating growth proves that industrial suppliers (manufacturers and distributors) are increasingly doing just that, via online product catalogs, configurators and the key ingredient of CAD downloads,” said John Major, CEO, CDS. “Designers now research and select products online so a supplier's website is their primary marketing vehicle. An accelerating number of industrial suppliers recognize this and are ensuring their parts are easy to find and select on their own website. Adding downloadable CAD aids selection, simplifies incorporation of your product into a new design and leads to a sale once that design goes to market. The pattern we are seeing is that industrial suppliers are:

1. Improving the product search, usefulness and lead generation of their own websites by implementing our low cost Software as a Service (SaaS) solutions - [CDS Catalog™](#), [CDS ModelServer™](#), [CDS Configurator™](#). In 2011 this became even more vital as the Google Search changes (Panda) demoted directories and portals in favor of taking users directly to the ‘home’ of the data – the manufacturers website.

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2. Managing their content from a single master set of data, primarily promoting that data on their own website, then promoting their website by increased focus on SEO and SEM, and finally syndicating their data to secondary locations, such as 3DModelSpace.comTM, that drive customers directly to their websites.

3. Initially or at a later stage, integrating these into existing CRM, ERP, Manufacturing systems, etc by utilizing the extremely flexible and configurable architecture of these SaaS solutions.

Some of the customers we welcomed last year include ITT (Compact Automation), CUI, E-Z Lok, HBD Thermoid, Kurt Workholding, Magnet-Schultz, Mueller Industries, Ruland, Newport, Peerless Winsmith, Stucchi, Symmco (via West Media), Stainless Drains, Schioppa Casters and Wheels, Taco, Boca Bearings, Wink Fasteners and others.

Of all the types of online marketing content a supplier can use (white papers, case studies, brochures, videos, demos, recorded webinars, reviews, CAD model downloads, etc.) only CAD model downloads are known to lead to a sale nearly 50% of the time! CAD downloads get a supplier's products specified into new designs, and provide sales leads by registration – this may be the most efficient and effective online marketing tool available to industrial suppliers.

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Dassault Systèmes Schedules Fourth Quarter and Full Year 2011 Results Webcast and Conference Call for February 9, 2012

20 January 2012

Dassault Systèmes will host a webcast and a conference call on Thursday, February 9, 2012, to discuss its operating performance for the fourth quarter and full year 2011 ended December 31, 2011.

The management of Dassault Systèmes will host the webcast at 10:00 AM London Time - 11:00 AM Paris Time and will then also host the conference call at 9:00 AM New York Time - 2:00 PM London Time - 3:00 PM Paris Time.

Both the webcast and the conference call will be available via the Internet by accessing Dassault Systèmes' website at <http://www.3ds.com/company/finance/>.

Follow the directions on the main page to link to the audio.

Please go to the website at least fifteen minutes prior to the webcast or conference call to register, to download and install any necessary software. The webcast and conference call will be archived for 30 days.

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IBM Reports 2011 Fourth-Quarter and Full-Year Results

20 January 2012

Fourth-Quarter 2011:

Diluted EPS:

GAAP: \$4.62, up 11 percent;

Operating (non-GAAP): \$4.71, up 11 percent;

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Net income:

GAAP: \$5.5 billion, up 4 percent;

Operating (non-GAAP): \$5.6 billion, up 5 percent;

Gross profit margin:

GAAP: 49.9 percent, up 0.9 points;

Operating (non-GAAP): 50.2 percent, up 1.1 points;

Revenue of \$29.5 billion, up 2 percent as reported, 1 percent adjusting for currency;

Software revenue up 9 percent;

Global Technology Services revenue up 3 percent;

Global Business Services revenue up 3 percent, 2 percent adjusting for currency;

Services backlog of \$141 billion, up \$4 billion as reported, up \$5 billion adjusting for currency, quarter to quarter;

Systems and Technology revenue down 8 percent.

Full-Year 2011:

Diluted EPS, up double-digits for 9th consecutive year;

GAAP: \$13.06, up 13 percent;

Operating (non-GAAP): \$13.44, up 15 percent;

Net income:

GAAP: \$15.9 billion, up 7 percent;

Operating (non-GAAP): \$16.3 billion, up 9 percent;

Revenue of \$106.9 billion, up 7 percent, up 3 percent adjusting for currency;

Free cash flow of \$16.6 billion, up \$300 million;

Growth markets revenue up 16 percent, up 11 percent adjusting for currency;

Business analytics revenue up 16 percent;

Smarter Planet revenue up 47 percent;

Cloud revenue more than tripled 2010 revenue.

Full-Year 2012 Expectation:

GAAP EPS of at least \$14.16 and operating (non-GAAP) EPS of at least \$14.85.

IBM announced fourth-quarter 2011 diluted earnings of \$4.62 per share, compared with diluted earnings of \$4.18 per share in the fourth quarter of 2010, an increase of 11 percent. Operating (non-GAAP) diluted earnings were \$4.71 per share, compared with operating diluted earnings of \$4.25 per share in the fourth quarter of 2010, an increase of 11 percent.

Fourth-quarter net income was \$5.5 billion compared with \$5.3 billion in the fourth quarter of 2010, an increase of 4 percent. Operating (non-GAAP) net income was \$5.6 billion compared with \$5.4 billion in

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the fourth quarter of 2010, an increase of 5 percent.

Total revenues for the fourth quarter of 2011 of \$29.5 billion increased 2 percent (1 percent, adjusting for currency) from the fourth quarter of 2010. While currency provided a benefit to revenue growth of approximately 25 basis points in the quarter, currency movements since the company announced its third-quarter earnings in October impacted fourth-quarter revenue by approximately one point of growth, or \$300 million.

"We had a strong fourth-quarter performance, capping a year of record earnings per share, revenue, profit and free cash flow," said Ginni Rometty, IBM president and chief executive officer. "We delivered outstanding results in all four of our strategic initiatives for the quarter and the year, as we continued to realize the benefit of our long-term investments in growth markets, business analytics, Smarter Planet solutions and cloud. We are well on track toward our long-term roadmap for operating earnings per share of at least \$20 in 2015."

Fourth-Quarter GAAP - Operating (non-GAAP) Reconciliation

Fourth-quarter operating (non-GAAP) diluted earnings exclude \$0.09 per share of net charges: \$0.10 per share for the amortization of purchased intangible assets and other acquisition-related charges, offset by (\$0.01) per share for retirement-related items driven by changes to plan assets and liabilities primarily related to market performance.

Full-Year 2012 Expectation

IBM said that it expects to deliver full-year 2012 GAAP earnings per share of at least \$14.16; and operating (non-GAAP) earnings per share of at least \$14.85. The 2012 operating (non-GAAP) earnings exclude \$0.69 per share of charges for amortization of purchased intangible assets, other acquisition-related charges, and retirement-related items driven by changes to plan assets and liabilities primarily related to market performance.

Geographic Regions

The Americas' fourth-quarter revenues were \$12.5 billion, an increase of 3 percent (3 percent, adjusting for currency) from the 2010 period. Revenues from Europe/Middle East/Africa were \$9.6 billion, up 1 percent (1 percent, adjusting for currency). Asia-Pacific revenues increased 2 percent (down 1 percent, adjusting for currency) to \$6.7 billion. OEM revenues were \$714 million, down 9 percent compared with the 2010 fourth quarter.

Growth Markets

Revenues from the company's growth markets increased 7 percent (8 percent, adjusting for currency). Revenues in the BRIC countries — Brazil, Russia, India and China — increased 10 percent (11 percent, adjusting for currency).

Services

Global Technology Services segment revenues increased 3 percent (3 percent, adjusting for currency) to \$10.5 billion. Global Business Services segment revenues were up 3 percent (2 percent, adjusting for currency) at \$4.9 billion.

Pre-tax income from Global Technology Services increased 18 percent; pre-tax margin increased to 18.0 percent. Global Business Services pre-tax income increased 14 percent; pre-tax margin increased to 16.6 percent.

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The estimated services backlog at December 31 was \$141 billion, up \$4 billion as reported (\$5 billion, adjusting for currency), quarter to quarter, and down \$2 billion as reported (flat, adjusting for currency), year over year. Services backlog at the end of a quarter measures the current value of work under contract expected to be recognized as revenue in future quarters.

Software

Revenues from the Software segment were \$7.6 billion, an increase of 9 percent (9 percent, adjusting for currency). Software pre-tax income of \$3.7 billion increased 12 percent year over year.

Revenues from IBM's key middleware products, which include WebSphere, Information Management, Tivoli, Lotus and Rational products, were \$5.2 billion, an increase of 11 percent (11 percent, adjusting for currency) versus the fourth quarter of 2010. Operating systems revenues of \$710 million increased 3 percent (3 percent, adjusting for currency) compared with the prior-year quarter.

Revenues from the WebSphere family of software products increased 21 percent year over year. Information Management software revenues increased 9 percent. Revenues from Tivoli software increased 14 percent. Revenues from Lotus software decreased 2 percent, and Rational software increased 4 percent.

Hardware

Revenues from the Systems and Technology segment totaled \$5.8 billion for the quarter, down 8 percent (8 percent, adjusting for currency) from the fourth quarter of 2010. Systems and Technology pre-tax income was \$790 million, a decrease of 33 percent.

Total systems revenues decreased 7 percent (7 percent, adjusting for currency). Revenues from Power Systems increased 6 percent compared with the 2010 period. Revenues from System z mainframe server products decreased 31 percent compared with the year-ago period which was the first full quarter after a new product introduction. Total delivery of System z computing power, as measured in MIPS (millions of instructions per second), decreased 4 percent. Revenues from System x decreased 2 percent. Revenues from System Storage decreased 1 percent, and revenues from Retail Store Solutions increased 9 percent year over year. Revenues from Microelectronics OEM decreased 11 percent.

Financing

Global Financing segment revenues decreased 13 percent (13 percent, adjusting for currency) in the fourth quarter to \$548 million. Pre-tax income for the segment decreased 9 percent to \$514 million.

The company's total gross profit margin was 49.9 percent in the 2011 fourth quarter compared with 49.0 percent in the 2010 fourth-quarter period. Total operating (non-GAAP) gross profit margin was 50.2 percent in the 2011 fourth quarter compared with 49.1 percent in the 2010 fourth-quarter period, with increases in Services and Software.

Total expense and other income increased 2 percent to \$7.4 billion compared with the prior-year period. S,G&A expense of \$6.1 billion increased 2 percent year over year compared with prior-year expense. R,D&E expense of \$1.6 billion decreased 1 percent compared with the year-ago period. Intellectual property and custom development income decreased to \$253 million compared with \$318 million a year ago. Other (income) and expense was income of \$44 million compared with prior-year income of \$42 million. Interest expense increased to \$113 million compared with \$102 million in the prior year.

Total operating (non-GAAP) expense and other income increased 2 percent to \$7.4 billion compared with the prior-year period. Operating (non-GAAP) S,G&A expense of \$6.0 billion increased 2 percent

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year over year compared with prior-year expense. Operating (non-GAAP) R,D&E expense of \$1.6 billion decreased 2 percent compared with the year-ago period.

Pre-tax income increased 5 percent to \$7.3 billion; total operating (non-GAAP) pre-tax income increased 6 percent to \$7.4 billion. Pre-tax margin was 24.7 percent, up 0.7 points; total operating (non-GAAP) pre-tax margin was 25.1 percent, up 0.9 points.

IBM's tax rate was 24.5 percent, up 0.1 points year over year; total operating (non-GAAP) tax rate was 24.4 percent, up 0.7 points.

Net income margin increased 0.5 points to 18.6 percent; total operating (non-GAAP) net income margin was 19.0 percent, an increase of 0.5 points.

The weighted-average number of diluted common shares outstanding in the fourth-quarter 2011 was 1.19 billion compared with 1.26 billion shares in the same period of 2010.

In the quarter, IBM generated free cash flow of \$9.0 billion excluding Global Financing receivables, up approximately \$300 million year over year.

Full-Year 2011 Results

Net income for the year ended December 31, 2011 was \$15.9 billion compared with \$14.8 billion in the year-ago period, an increase of 7 percent. Operating (non-GAAP) net income was \$16.3 billion compared with \$15.0 billion in 2010, an increase of 9 percent.

Diluted earnings were \$13.06 per share compared with \$11.52 per diluted share in 2010, an increase of 13 percent. Operating (non-GAAP) diluted earnings were \$13.44 per share, compared with operating diluted earnings of \$11.67 per share in 2010, an increase of 15 percent. This was the company's 9th consecutive year of double-digit EPS growth.

Revenues for 2011 totaled \$106.9 billion, an increase of 7 percent (3 percent, adjusting for currency), compared with \$99.9 billion in 2010.

GAAP - Operating (non-GAAP) Reconciliation

Operating (non-GAAP) diluted earnings for the year exclude \$0.38 per share of net charges: \$0.41 per share for the amortization of purchased intangible assets and other acquisition-related charges, offset by (\$0.03) per share for retirement-related items driven by changes to plan assets and liabilities primarily related to market performance.

Geographic Regions

From a geographic perspective, the Americas' full-year revenues were \$44.9 billion, an increase of 7 percent (6 percent, adjusting for currency) from the 2010 period. Revenues from Europe/Middle East/Africa were \$34.0 billion, an increase of 7 percent (2 percent, adjusting for currency). Asia-Pacific revenues increased 9 percent (2 percent, adjusting for currency) to \$25.3 billion. OEM revenues were \$2.7 billion, down 2 percent (3 percent, adjusting for currency) compared with 2010.

Growth Markets

Revenues from the company's growth markets increased 16 percent (11 percent, adjusting for currency), and represents 22 percent of IBM's total geographic revenue. Revenues in the BRIC countries — Brazil, Russia, India and China — increased 19 percent (16 percent, adjusting for currency).

Segments

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Total Global Services revenues increased 7 percent (2 percent, adjusting for currency). Revenues from the Global Technology Services segment totaled \$40.9 billion, an increase of 7 percent (3 percent, adjusting for currency) compared with 2010. Revenues from the Global Business Services segment were \$19.3 billion, up 6 percent (1 percent, adjusting for currency). Software segment revenues in 2011 totaled \$24.9 billion, an increase of 11 percent (8 percent, adjusting for currency). Systems and Technology segment revenues were \$19.0 billion, an increase of 6 percent (3 percent, adjusting for currency). Global Financing segment revenues totaled \$2.1 billion, a decrease of 6 percent (9 percent, adjusting for currency).

The company's total gross profit margin was 46.9 percent in 2011 compared with 46.1 percent in 2010. Overall gross profit margins improved year over year for the 8th consecutive year. Total operating (non-GAAP) gross profit margin was 47.2 percent in the 2011 period compared with 46.1 percent in the 2010 period, with increases in Services, Software, and Systems and Technology.

The weighted-average number of diluted common shares outstanding in 2011 was 1.21 billion compared with 1.29 billion shares in 2010. As of December 31, 2011, there were 1.16 billion basic common shares outstanding.

Debt, including Global Financing, totaled \$31.3 billion, compared with \$28.6 billion at year-end 2010. From a management segment view, Global Financing debt totaled \$23.3 billion versus \$22.8 billion at year-end 2010, resulting in a debt-to-equity ratio of 7.2 to 1. Non-global financing debt totaled \$8.0 billion, an increase of \$2.2 billion since year-end 2010, resulting in a debt-to-capitalization ratio of 32.0 percent from 22.6 percent.

IBM ended 2011 with \$11.9 billion of cash on hand and generated free cash flow of \$16.6 billion excluding Global Financing receivables, up approximately \$300 million year over year. The company returned \$18.5 billion to shareholders through \$3.5 billion in dividends and \$15.0 billion of share repurchases. The balance sheet remains strong, and the company is well positioned to support the business over the long term.

Presentation of Information in this Press Release

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

IBM results and expectations –

presenting operating (non-GAAP) earnings per share amounts and related income statement items;

presenting non-global financing debt-to-capitalization ratio;

adjusting for free cash flow;

adjusting for currency (i.e., at constant currency).

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

Conference Call and Webcast

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IBM's regular quarterly earnings conference call is scheduled to begin at 4:30 p.m. EST, today. Investors may participate by viewing the Webcast at <http://www.ibm.com/investor/4q11>. Presentation charts will be available on the Web site shortly before the Webcast.

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

Site links

[Earnings Release on the Investor Site including tables.](#)

PDF documents

[Earnings release PDF \(51 KB\)](#)

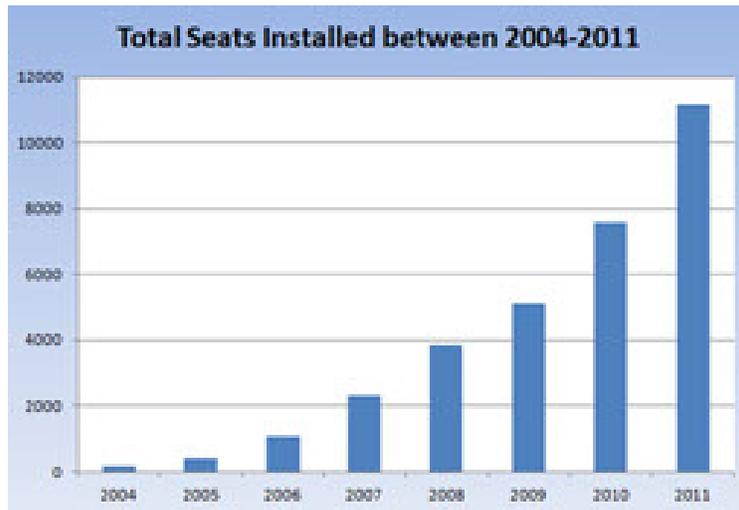
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Record Year for ModuleWorks in 2011

January 2012

ModuleWorks is delighted to reveal that 2011 has been a record year for the company.



Revenue has increased by an impressive 30% and there have been a total of 20 new sales, including 12 completely new partners. Of particular interest is the success achieved in new geographic markets, including China, Korea, Turkey and Russia. Establishing a presence in these markets is expected to lead to further growth in future years.

It has been a record year for custom development projects with five major development projects taking place during 2011. The synergies between these development projects and the core product development allow these projects to be delivered in a highly efficient, cost effective manner, while also allowing the developments to be leveraged into improving the core products.

The new 5-Axis Multi-blade product had a successful launch and is already achieving very positive results. Further developments during 2012 are expected to see our partners get the full benefits of this

CIMdata PLM Industry Summary

new technology.

New products have been launched which allow the ModuleWorks technology to be applied to Dental CAD/CAM and Woodwork CAD/CAM. These industries are able to benefit from the 200+ man-years of development effort that have already been invested in the core products and so deliver very impressive results in a short time.

The single most successful product during 2011 has been the ModuleWorks Simulation Component, both being adopted by many existing partners and attracting new partners. Already more than 50% of ModuleWorks partners are using ModuleWorks Simulation, and this is expected to increase during 2012.

The ModuleWorks Simulation Component has also been popular with CNC companies looking for Simulation and Verification on the control. A number of collaborations are in progress with the aim to making this dream a reality.

Yavuz Murtezaoglu, Managing Director for ModuleWorks, adds "We are delighted with the successes of 2011 and have invested heavily to achieve further growth during the coming years. We are fully committed to developing high quality CAD/CAM technology and making it available to a large number of end users at an affordable price. Given the high cost of development, we are convinced that providing component software and working closely with our partners is the most effective way to achieve this. Finally, I would like to wish continued success to all of our partners during 2012."

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Tech Soft 3D Announces 40 Percent Revenue Growth for FY 2011

19 January 2012

Tech Soft 3D announces 40 percent revenue growth in 2011. These gains have contributed to a 25 percent increase in R&D expenditures, reflecting the company's ongoing commitment to funding excellence and innovation. Tech Soft 3D also invested in a sales and consulting office in Yokohama, Japan, providing the Japanese market closer proximity to its high-value technology and expertise. This marks Tech Soft 3D's 16th consecutive year of profitable growth.

A strengthened and expanded product suite was the key factor driving success in 2011. Tech Soft 3D's flagship HOOPS Visualize graphics engine experienced solid 20% growth, due to an expanding customer base and positive sales growth from existing users. The maturation of the HOOPS Exchange data access toolkit provided key revenues in 2011 and offers ample opportunity for growth in 2012, along with the new PRC-based HOOPS Publish, introduced mid-year. In addition, partner Autodesk fully transitioned all North American AutoCAD OEM business to Tech Soft 3D.

"Our increased SDK and platform portfolio, continual R&D investment and expanded global reach position us as the leading solution for development teams around the globe to build better software, faster," says Tech Soft 3D CEO, Ron Fritz. "Our consistently strong revenue growth is a key indicator that we're delivering on this mission, and a key enabler to fuel even more innovation and continued superior customer service. We look forward to helping even more companies build, ship and maintain successful applications in 2012."

To learn about its product offerings, mission and values, visit <http://www.techsoft3d.com>.

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Implementation Investments

ASICS America Implementing Lawson Fashion PLM to Help Support Continued Growth

17 January 2012

[Lawson Software](#), an Infor affiliate, announced that ASICS America Corp., an athletic shoe and sports apparel manufacturer, has selected the full [Lawson Fashion Product Lifecycle Management \(PLM\)](#) suite. Lawson Fashion PLM will help ASICS America reduce the time-to-market for new products, improve quality and reduce overall production costs. Lawson Professional Services will lead the implementation, with project support from Lawson channel and services partner Ptex Solutions.

Based in Irvine, Calif., ASICS America is an international manufacturer of athletic shoes, technical active sports apparel and accessories. ASICS America chose Lawson Fashion PLM to help improve processes in its apparel and accessories divisions and better position itself for growth in those product segments.

"For many years, we've been looking to develop a solution for our apparel and accessories division that would help eliminate manual and ad-hoc systems," said Bill McBain, vice president of IT at ASICS America. "We also needed a solution to help create more consistency and continuity in the way we work internally and with our partners, from design and procurement to sourcing and production. Lawson Fashion PLM will help provide access to the information we need, when we need it, to help us make better business decisions and continue to expand our operations."

Lawson Fashion PLM is a web-based suite of applications for retailers and manufacturers of apparel, footwear, home textiles and accessories, that helps support the design and development of products from concept to sourcing. Lawson Fashion PLM has deep industry-specific functionality and contains more than 300 out-of-the-box forms that can be easily configured without additional coding. Using a common interface and standardized features across applications, this suite is designed to help companies manage complex processes more effectively.

"The current economy has made the apparel and footwear industries more challenging than ever. Many companies are facing rising costs and striving to reduce the time from concept-to-consumer to meet changing consumer trends. Having tools that help enable collaborative product development and visibility across the supply chain are essential to stay competitive," said Robert McKee, industry strategy director, Fashion, for Lawson. "Lawson's fashion solutions can help companies develop products faster, assure compliance, and simplify the management of their complex global supply chains. We equip them with the speed and visibility of information that they need to help ensure timely, accurate data to get products to market faster, improve product quality and increase efficiency."

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Autodesk Selected as Industry Partner for NUS Engineering Design and Innovation Centre (EDIC); Establishing New Professorship

18 January 2012

Autodesk, Inc. announced that its design software will be used in the National University of Singapore (NUS) Engineering Design and Innovation Centre (EDIC) and the [Design-Centric Curriculum \(DCC\)](#). An NUS-Autodesk Term Professorship at the NUS Faculty of Engineering is also being established and hosted at EDIC.

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NUS EDIC staff and DCC students will have access to Autodesk Education Master Suites, which include 20 Autodesk software products, as well as [Autodesk Vault](#) data management software. The NUS-Autodesk Term Professorship will play a leading role in the development of design curriculum to enhance learning experiences for engineering students. It will also drive integration of digital design and simulation technology within EDIC, in particular through DCC projects. DCC, launched by EDIC in 2009, is a flexible alternative pathway for students to learn engineering through multi-year, multi-disciplinary design-centric projects.

Professor Tham Ming Po, Director of EDIC at NUS, said: “The appointed NUS-Autodesk professor will lead in developing innovative designs and tools to push design frontiers using Autodesk software. DCC students will use Autodesk software for projects related to the three broad themes of Smart, Sustainable Cities; Engineering in Medicine; and Future Transportation Systems. For example, we will see Autodesk software being used in the design of engineering systems for rehabilitation medicine.”

Mr. Tom Joseph, Head of Worldwide Education for Autodesk, said: “Autodesk is honoured that NUS, ranked among Asia’s top universities, has selected our software for its Design-Centric Curriculum. Students will benefit from the software’s advanced, professional-grade functionality. For example, the Eco Materials Adviser in Autodesk Inventor software makes sustainable material choices accessible early in the design process, by providing information on environmental impact, cost, and performance. With 80 percent of a product’s environmental impact being determined by decisions made in the design phase, the impact of such technology is profound.”

Professor Lu Wen Feng, Eco-car Project Advisor at the NUS Faculty of Engineering, said: “In our previous collaborations with Autodesk, students working on the Eco-car Project have used Autodesk software and found it effective in design, simulation and analysis. Students who are trained to use the software graduate with the confidence that they use the same technology as professionals around the world. Our graduates take their skills into the working world, contributing significantly to the industry, setting standards and pushing the frontiers of engineering design.”

Autodesk Education Initiatives

Autodesk wants students of all ages to imagine, design and create a better world – a vision also shared by the Faculty of Engineering. By partnering with academic leaders and institutions, Autodesk is helping educators to build skills and engagement, both in and out of the classroom, in order to prepare for successful careers in architecture, engineering and digital arts. Autodesk offers the [technology and learning resources](#) that inspire the next generation of professionals, while providing institutions with educational pricing, training, curricula and community resources. For more information about Autodesk education programs and solutions, visit <http://www.autodesk.com/education>.

About National University of Singapore (NUS)

A leading global university centered in Asia, the National University of Singapore (NUS) is Singapore’s flagship university which offers a global approach to education and research, with a focus on Asian perspectives and expertise.

NUS has 16 faculties and schools across three campuses. Over 36,000 students from 100 countries enrich the community with their diverse social and cultural perspectives.

NUS has three Research Centres of Excellence (RCE) and 21 university-level research institutes and centres. It is also a partner in Singapore’s 5th RCE. NUS shares a close affiliation with 16 national-level research institutes and centres. Research activities are strategic and robust, and NUS is well-known for

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its research strengths in engineering, life sciences and biomedicine, social sciences and natural sciences. For more information, please visit <http://www.nus.edu.sg>.

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Beretta Leverages Centric Software for Digital Sales Catalog Creation

18 January 2012

Fabbrica d'Armi Pietro Beretta S.p.A. is using [product lifecycle management \(PLM\) software for apparel](#) from [Centric Software](#) to create digital catalogs for the global sales of its clothing and accessories division.

Centric's Collection Management module enables Beretta's sales and marketing teams to create customer-specific, electronic product catalogs and assortments for customer presentation. Combined with Centric's patent-pending Collection Book for iPad app, Beretta can present a collection of styles to customers through an interactive mobile device—whether online or offline. Alternatively, Beretta sales staff can create personalized portals that customers can access via any browser-based connection to view customized collections developed by sales.

Up-to-the-minute presentations, enhanced user experience

In using the Collection Management module and Collection Book for iPad app, Beretta is able to generate electronic, localized trade catalogs for every market each time the company launches a new collection. The sales team can easily select an assortment relevant to a particular market or customer, localize for language and specific promotional pricing, and publish dedicated catalogs. As a result, Beretta continuously maintains up-to-date catalogs in a “green” and sustainable manner, and eliminates the cost and waste of printing more than 18,000 traditional paper catalogs each year.

In addition, the Centric [PLM software](#) is allowing the company's sales force to present the distinctive and innovative characteristics of the Beretta product line with broad image galleries and multimedia content, says Paolo Buffoli, head of marketing and communications at Beretta. “The digital books are easy to use, attractive to customers and replace a time-consuming printing process.”

“The digital catalog has been an important investment, a step toward the future that speaks to the critical role of innovation in our company, and our capacity to anticipate customer needs,” says Buffoli. “Unlike its paper equivalent, the digital catalog is not a solution born and buried in one season, but a tool we can update, improve and adapt to market needs on an ongoing basis.”

Centric's Collection Management module and Collection Book for iPad app are transforming Beretta's product launch approach, says Chris Groves, CEO at Centric Software. The solutions, he explains, are collapsing the time from style to customer, helping the company to connect more directly and interactively with its customers, and enhancing the Beretta customer buying experience. “At Centric, we are delighted to help extend the rich Beretta brand experience into the product launch and buying cycle – and gain valuable insight and input on mobile product strategy as we work with such a strong, iconic company.”

Fabbrica d'Armi Pietro Beretta S.p.A.

[Fabbrica d'Armi Pietro Beretta S.p.A.](#), established in 1526, is the oldest industrial dynasty in the world, tracing its roots through 16 generations of continuous family ownership in Italy. Firearms bearing the Beretta name have been sold for almost 500 years.

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In the early 1990s, Beretta added to its traditional sporting guns production a complete line of hunting apparel and accessories, clay target shooting, and outdoor sports items. The Beretta clothing and accessories line is sold in leading gun shops in Europe and America, through the Shop in Shop chain, and 900 points-of-sale with dedicated corners. In addition, the company operates the Beretta Galleries, directly managed flagship stores, and the U.S. e-commerce website <http://www.berettausa.com>.

Since 1996, Beretta Holding S.p.A. has controlled Fabbrica d'Armi Pietro Beretta S.p.A. The holding company also controls major sports weapons and optical equipment manufacturers, and Italian and foreign sales and distribution firms. In the 2009 financial year, Beretta Holding reached a consolidated turnover of 450.2 million euro.

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Delcam's FeatureCAM Gives Five-Axis Success in New Zealand

16 January 2012

A move to five-axis machining programmed with Delcam's FeatureCAM feature-based CAM system has resulted in productivity and quality improvements at WECAN, a New Zealand company focused on the manufacture of precision components.

Founded in 1971, WECAN has gone from strength to strength and is now regarded as one of New Zealand's premier manufacturers. The business focuses on the manufacture of precision components, critical engineering spares, and complex engineering parts and assemblies in the food and meat processing industries. Canning and packaging equipment is a major part of the business, with the local subsidiary of global food giant Heinz being an important customer. However, the company also works with R & D teams on prototyping and low-volume manufacturing.

With WECAN's continuing success came a need for expansion. The company's directors, Rickie Pike and Ian Jamieson, realised that a move into five-axis machining would soon be required to increase output and productivity. In the past, they had encountered problems when integrating another CNC machine into the business. These problems stemmed primarily from having independent suppliers of machine, cutting tools and CAM system, and the difficulty of coordinating them in a way that provided an acceptable time frame from order to operation.

An extensive review of five-axis machine tools resulted in the selection of a Spinner U620 with Siemens 820D controller. However, before WECAN would place the order for the machine, Spinner NZ had to undertake to provide a total package including machine tool, cutting tools and CAM system. Spinner NZ formed a partnership with Iscar Tools and Delcam sales partner Complex to meet the challenge.

"We wanted to ensure that everything was taken care of when we bought this total package," recalled Mr. Jamieson. "We wanted to be sure that the machine would perform efficiently from the day it was commissioned."

He was not disappointed. Training of WECAN staff on the machine and with FeatureCAM was completed prior to the machine installation. In addition, a customised tool database was created within FeatureCAM with details of the Iscar tooling. "We were straight into the five-axis operation in the first few days, which was exactly what we wanted," claimed Mr. Jamieson.

Mr. Pike also endorsed FeatureCAM enthusiastically. "Our previous CAM package had never had the tool library set up except in a haphazard way and we just were not getting the productivity that we needed," he reported. "Now, that has all changed and productivity has increased. In the first two weeks

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of having the new machine, we ran six jobs in one or two operations that would have required six or seven set-ups previously. As a result, we were able to run all these jobs within three days of machine time rather than around two weeks, and without the errors inherent in multiple set-ups”

Since the success with FeatureCAM five-axis, WECAN has invested in further Delcam solutions, including an On-Machine Verification quality-assurance system for the Spinner U620 and FeatureCAM’s TurnMill software for its Okuma Multus multi-tasking machine.

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Delcam’s PartMaker CAM Supports Growth for Medical Device Manufacturer

20 January 2012

A combination of unique knowledge, old-fashioned customer service and Delcam’s PartMaker CAM software has helped Marc Stipo, President of High Point Precision Products, to grow his business from the family basement in Northern New Jersey into a fifteen-man company serving the medical device market in Sussex, New Jersey. Programming all of its machines with PartMaker keeps the company competitive and provides its customers with fast turnaround and the shortest possible lead times.

To see the full interview with Marc Stipo, please go to <http://www.delcam.tv/highpoint>.

Mr. Stipo admits that his company isn’t the biggest player in medical device manufacturing but claims that its cutting-edge machine-tool and CAD/CAM technology provides unique, cost-effective manufacturing solutions. To this end, the company employs seven multi-axis CNC Swiss-type lathes including a variety of Citizen L, K and M series models, a Star SA and two Haas vertical machining centres.

The Swiss machines typically cost between \$250,000 and \$300,000 each. Therefore, it is paramount that they are kept up and running as much as possible, no matter what the lot size might be.

According Mr. Stipo, the best way to achieve this is to make very technically demanding, complex parts, which is exactly where PartMaker software provides real help. “In today’s medical device industry, engineers are using CAD to the fullest of its capabilities, which means part geometries are getting more complicated,” explained Mr. Stipo. “As a result, there have been countless jobs we just wouldn’t have been able to produce without using PartMaker.”

The software allows the company to program faster and in a more automated fashion, which leads to fewer errors on the shop floor. Getting the programming of a part right the first time, especially for the company’s complex Swiss machines, leads to faster set-up times for High Point and shorter lead times for its customers.

Although High Point is a rather small shop, it is able to compete with much larger outfits because of the skill of its staff and the sophistication of its technology. High Point keeps a step ahead by focusing the unique talents of its small group on the customers’ problems. This allows Mr. Stipo and his team to come up with practical, cost-saving ideas.

Being smaller also enhances the need for diversification among his customer base. Having a CAM system that allows for the quick programming and turn-around of parts allows High Point to satisfy a diverse customer base across a relatively small number of machines without running into capacity problems.

“PartMaker allows you to quickly see where you have excess spindle waiting time so we can make sure

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our part cycle times are optimised before sending a program to the machine,” says Mr. Stipo. “Having the ability to run ‘What If’ scenarios off-line on PartMaker saves machine time and assures our customers that they are getting the best possible price for their products.”

Mr. Stipo finds that smaller medical-device manufacturers are receptive to the experience that his company has to offer. “To design a part on a computer, to have us make it and then to try it out back in the company’s R&D lab can be very time-consuming,” he explained. “When you are at the machine, making these changes can just be a couple of key strokes, or a quick edit in PartMaker. Working collaboratively with the customer can also make the machining easier and more efficient, so bringing costs down even further.”

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DLT Solutions Closes Year with DoD Contract Win

11 January 2012

DLT Solutions, a leading value-added reseller in government information technology (IT) software and services, announced that it was awarded a DoD Enterprise Software Initiative Blanket Purchase Agreement (ESI BPA) for Autodesk software products. The contract has a three year base period with two 1-year options and will allow all DoD components access to dozens of Autodesk CAD (Computer Aided Design), BIM (Building Information Modeling) and 3D software solutions at a discount structure of up to 10 percent off GSA schedule pricing.

Autodesk, an industry leader in computer-aided design since its introduction of AutoCAD software in 1982, continues to develop a broad portfolio of state-of-the-art 3D software for global markets. Autodesk applications streamline the design-to-manufacture process of components and sub-assemblies needed to fulfill and maintain critical systems equipment.

“Already an Autodesk Master Government Reseller, this contract is a significant win for us and our partner, Autodesk, and builds upon DLT’s already strong presence in DoD ESI as one of their leading resellers,” explained Rick Marcotte, president and CEO of DLT Solutions. “The cost savings and efficient access to the strong engineering software solutions of Autodesk will provide great value to our DoD customers.”

The DoD ESI is an official DoD initiative sponsored by the DoD Chief Information Officer to lead in the establishment and management of enterprise Commercial-Off-The-Shelf (COTS) IT agreements, assets and policies. DoD ESI lowers the total cost of ownership across the DoD, Coast Guard and Intelligence Communities for commercial software, IT hardware and services.

About DLT Solutions

For twenty years, DLT Solutions has been the IT software and solutions provider of choice for federal, state & local government and education customers. By hand selecting its manufacturer partners including Autodesk, Google, NetApp, Oracle, Quest Software, Red Hat, Solarwinds and Symantec, DLT fulfills its mission to be a value-added reseller of only the best software and hardware products and services, as well as a premier provider of technical support, through its many government contracts. The company specializes in carefully-selected solution areas — Cloud Computing, Data Center Consolidation, Geospatial Data Systems and Computer-Aided Design for Transportation, Utilities and Manufacturing. For more information or to place an order, contact DLT Solutions at 800-262-4358; email sales@dlt.com; or visit <http://www.dlt.com>.

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DOCOMO Beijing Labs Reduces Development Time of Mobile Communications Technology by 50 Percent with MATLAB

17 January 2012

[MathWorks](#) announced that [DOCOMO Beijing Communications Laboratories Co., Ltd.](#) (DOCOMO Beijing Labs) has adopted [MATLAB](#) to develop and verify algorithms for the development of new physical layer mobile communications technologies for advanced standards such as LTE-A. MATLAB has allowed DOCOMO Beijing Labs to cut development time by 50% compared with its previous C and C++ development methods, and allowed researchers to rapidly develop new algorithms for link-level and system-level simulations.

To verify advanced algorithms developed in MATLAB, the DOCOMO engineers used a simulation frame that was built on a complete transmit-and-receive chain using MATLAB, [Signal Processing Toolbox](#) and [Communications System Toolbox](#). The team then used [Parallel Computing Toolbox](#) to parallelize communications algorithms and scale them without code changes to a 32-core cluster running [MATLAB Distributed Computing Server](#), reducing the time for the completion of extensive simulations from weeks to hours. This speed up has helped to verify more than four times the test cases, parameter settings, and operating scenarios than was previously possible. This workflow has helped DOCOMO researchers increase confidence in the robustness of their designs.

“With MATLAB we spend less time coding and more time developing innovative mobile communications algorithms,” said a lead research engineer at DOCOMO Beijing Labs. “More importantly, with only minor modifications we can accelerate the simulation of algorithms on our computing cluster to thoroughly evaluate and verify them under a wide range of operating conditions and scenarios.”

“The work at DOCOMO Beijing Labs directly influences the development of future wireless standards worldwide,” said Arun Mulpur, communications, electronics, and semiconductors industry marketing manager at MathWorks. “MATLAB has helped these researchers and engineers explore new ideas and theories, develop algorithms and systems, and functionally verify their designs.”

DOCOMO Beijing Labs relies on Monte Carlo simulations that test a range of scenarios and parameter values for dozens of base stations and hundreds of mobile devices. The researchers need to perform multiple simulations that are computationally intensive and take weeks to run on a single computer. Parallel Computing Toolbox and MATLAB Distributed Computing Server eased the task of distributing simulations on their cluster and aggregating the results, helping quickly compare the performance of different algorithms, assess robustness in poor channel conditions, and evaluate throughput across the network and at the cell edge.

DOCOMO Beijing Labs recently demonstrated a hardware implementation of two designs developed and verified using MATLAB: an 8x8 MIMO OFDM system and a multiuser MIMO for TD-LTE.

More details on DOCOMO Beijing Lab’s use of parallel computing with MATLAB can be found in the user story, “[DOCOMO Beijing Labs Accelerates the Development of Mobile Communications Technology](#).”

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Electrolux Enables a Social, Mobile Workforce with IBM Software

16 January 2012

IBM announced that [Electrolux](#) is using IBM social software to connect its workforce in 60 countries and encourage a deeper level of innovation and knowledge sharing.

To support the burgeoning mobile workforce expected to reach more than [1.19 billion people by 2013](#), IBM's social software runs on the most popular mobile devices, including tablets, to foster collaboration from anywhere, anytime.

Since the heart of Electrolux's organization is powered through the innovations of its employees, the ability to access content and collaborate on the fly is critical. Whether in the office or on the go, employees can find experts and gain valuable insight from the data on their company intranet portal, [IBM Connections](#) social networking platform and [IBM Sametime](#) instant messaging software, helping the business outpace the competition.

For an image of how mobile devices are impacting the way employees collaborate around the globe, visit: <http://bit.ly/AjxKks>.

Working with business partners Infoware Solutions and Avantime, Electrolux has seen the number of internal online communities, networks and microblogs grow rapidly. The intranet, powered by [IBM Connections](#) and Microsoft SharePoint, contains more than 100 information portals managed by more than 450 editors, and contains 15,000 monthly and 9,000 daily readers. With over 1,100 collaboration spaces with 8,500 members, Electrolux employees are engaging in ways never seen before.

For example, employees are using IBM Connections microblogging to quickly spread information across the organization, including new product and customer care ideas, and strategic organizational announcements.

Electrolux employees will also have access to a social collaboration dashboard. Through integrating [IBM Lotus Notes](#) email and [IBM Sametime](#) instant messaging, employees will be able to drag an email into a Connections Activity and discuss with colleagues in that specific window. This will help to better engage the team, provide a more comprehensive overview of the project, and reduce attachments in the email inbox.

"Our goal is to empower our employees so they have access to content and collaboration tools anytime and from anywhere," said Ralf Larsson, Director Online Employee Engagement and Development, Electrolux. "Working with IBM, our employees are now becoming better engaged and more connected into specific business processes that help them expand the scope of product innovation."

"Social business is enabling companies to scale in new ways and drive greater innovation within their organization," said Alistair Rennie, General Manager, Social Business, IBM. "Organizations can seamlessly connect and share information across a global network of clients, partners and employees through the power of social business."

For more information about IBM's social business initiative, please visit <http://www.ibm.com/press/socialbusiness> or follow #IBMSocialBiz on Twitter.

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Electromagnetic Field Simulator Helps Speed Characterisation of Innovative Hybrid Magnet

30 December 2011

Cobham Technical Services' Opera 3D electromagnetic field simulator is playing a vital role in the design of an innovative hybrid magnet being developed by the USA's National High Magnetic Field Laboratory (NHMFL) in Tallahassee, Florida.

The NHMFL - popularly known as the MagLab - is home to some of the largest and most powerful laboratory magnets in the world. Headquartered in a 370,000-square-foot complex at Florida State University, the facility provides scientists and engineers with a unique environment in which to conduct experiments involving very high energy magnetic fields.

Many of the innovative magnets used at the MagLab are designed and built on-site, by the facility's Magnet Science & Technology group. One of the latest additions, currently early in its construction, is a Series-Connected Hybrid (SCH) magnet designed to provide power efficiency and field homogeneity. Development of this resistive-superconducting hybrid magnet is being funded by an \$11.7 million grant from the US National Science Foundation, and the magnet will be used for research purposes in high field nuclear magnetic resonance (NMR), condensed matter physics, biology and chemistry.

The SCH uses a water-cooled Florida-Bitter resistive magnet - a highly innovative technology developed by the MS&T group, capable of generating high magnetic field strengths more efficiently than alternative means - nested within a superconducting magnet that is cooled by liquid helium. The two magnets are connected in series and together create a very high intensity central magnetic field of 36 tesla. The SCH is connected to a 650 V supply and has an operating current of 20,000 A; this 13 MW power consumption is 66 percent less than what would be required for an all-resistive magnet providing the same field and bore.

The Opera-3D electromagnetic simulator from Cobham Technical Services was used to aid the design of the SCH magnet and its shielding.

Electromagnetic shielding of the SCH is provided by a set of eight magnetically soft, 100 mm thick iron plates which form an octagonal wall around the entire magnet system. The magnetic properties of these shields were characterised by a B-H curve, obtained by using Opera 3D.

According to Iain Dixon, Research Associate at the Magnet Science & Technology division, "We chose to use Opera v12.0 to evaluate the 3D magnetic field uniformity and fringe fields of the SCH because the simulator is accurate and fast. The inner coils of the SCH are of Florida-Bitter type with essentially non-uniform current densities. To emulate this, we subdivided each coil into a large number of radially thin coils with uniform current densities, and the whole coil system was generated by use of an external program called by Opera from command line."

Opera 3D has also been used for a variety of other performance-related studies on the SCH, including evaluating the magnetic fields around the magnet's HTS (high temperature superconductor) vapour-cooled leads, and calculating eddy currents in the thermal radiation shields surrounding the superconducting coil. In the latter case, these calculations are of critical importance; during fast discharge of the magnet - such as in the case of a quench - eddy currents can exert large mechanical forces on the shields, and they therefore need to be accurately simulated for safety.

The SCH promises to set a new standard in powered magnet performance. Its efficiency means that it will have a lower operating cost than any other magnet in its class, and its innovative magnet configuration should provide an unprecedented level of field homogeneity and stability. Such is the

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design expectation that the MagLab is already involved in two further variations of the SCH; one other under construction is destined for the Helmholtz Zentrum Berlin where it will be used for neutron-scattering experiments, the other in design is for the Spallation Neutron Source at the Oak Ridge National Laboratory in Tennessee.

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Food Center Amsterdam Manages Restructuring Project in the Cloud

17 January 2012

Cadac Organice, a Microsoft Gold ISV Partner, supports the restructuring project of Food Center Amsterdam with her hosted solution for engineering document management. The Cadac Organice Cloud Solution provides the FCA and its partners a hosted platform for collaboration based on Microsoft SharePoint.

Food Center Amsterdam (FCA) is the wholesale market for the sale of fresh products for retailers and restaurants in the wider area of Amsterdam. It also has a number of main port companies for the nationwide distribution of fresh products. Over 80 entrepreneurs rent or own a building or office space on the 22 hectares of land. FCA serves about 10,000 customers and provides jobs for 2,500 people. In 2009, Food Center Amsterdam celebrated its 75th anniversary.

Because the FCA contributes to traffic congestion in the inner city of Amsterdam and urgently needed a facelift, it issued a tender for the restructuring and creation of a sustainable business park. There are three consortia participating in the tender. Carla van der Linden, Assistant Project Manager: “To prevent intensive email traffic between all project partners, we went looking for a document management system. An important requirement in our selection process was the ability to grant external partners access to the system. Therefore we chose Cadac Organice and Microsoft SharePoint in the Cloud. All our project partners can easily access the hosted document management system at the right security level.”

The three selected consortia have submitted and uploaded their proposals to the hosted SharePoint environment. In the hosted environment they are immediately available and accessible to the Advisory Teams. It is also always clear which is the latest and final version of a document. Carla van der Linden: “The Cadac Organice Cloud Solution provides us optimal accessibility of documents and information. It is immediately clear which is the latest and final version of a document. The system allows us to collaborate with multiple users at the same time and prevents intensive and unnecessary email traffic between the involved partners.”

More information about the Cadac Organice Cloud Solution at Food Center Amsterdam is available in a reference case that can be downloaded from <http://www.organice.com>.

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Fruit of the Loom® Selects Gerber Technology’s YuniquePLM Solution to Streamline Product Development, Production Planning and Sourcing

16 January 2012

Fruit of the Loom, Inc. will implement [Gerber Technology](#)’s YuniquePLM™ product lifecycle management system.

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The implementation will enable Fruit of the Loom® and its Vanity Fair®, Russell Athletic® and Spalding divisions to unite under one system for the creation and communication of product tech packs, tracking of individual responsibilities and workflows and communication with global suppliers. Together, the three companies employ nearly 34,000 individuals in more than 50 locations worldwide.

“Choosing a software system that affects all areas of the business can be quite a challenge,” said Cameron Bailey, SVP Product Development and Customer Service for Fruit of the Loom. “But, based on our past experience with Gerber, and after working closely with them during the discovery phase of this project, we became confident in their broad knowledge and deep expertise of the day-to-day product development process that occurs at all levels and across all areas of the organization. Our users are excited by the potential YuniquePLM has to streamline the product development process.”

“Fruit of the Loom is a longtime user of Gerber’s webPDM™ data management system,” said Donny Askin, president of Gerber Technology’s Software Solutions business. “By migrating to YuniquePLM, the organization will be able to take advantage of the enhanced functionality, mobility, scalability and CAD integration that YuniquePLM offers. And, because YuniquePLM integrates with existing ERP and other third-party systems, it provides powerful business intelligence to guide decision making.”

Fruit of the Loom’s major national and international brands include Fruit of the Loom®, BVD®, Underoos®, Lofteez®, Russell Athletic®, Russell Outdoors™, JERZEES®, Spalding®, Brooks®, Bike®, Moving Comfort®, AAI®, Dudley®, Cross Creek®, Sherrin®, Vanity Fair®, Illusion®, Bestform®, Gemma®, Belcor®, Value in Style®, Lily of France®, Lou®, Curvation®, Intima Cherry®, Vassarette® and Exquisite Form Fully®.

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Hitachi Consulting UK Helps Boden Assess Global Product Lifecycle Management Solutions to Support Strategic Growth

16 January 2012

Leading UK retailer, Boden, has engaged [Hitachi Consulting UK](#) to work with its senior commercial directors to facilitate a review of the company’s product lifecycle processes to support market expansion, product diversity and global growth. The process review examines the impact on the business and its strategic direction, including garment design, sourcing, product development, and critical path tracking.

Boden continues to buck the economic trend, experiencing substantial growth in several markets. As a result of its on-going growth, the company needed to review its current product lifecycle management processes to ensure global business alignment across both its business strategy and technology processes. Boden required an assessment of alternative solutions capable of providing more efficient and automated processes for product development and analysis, such as insight into buying patterns, to further support the future growth of the business and product diversity into the marketplace.

Matthew Dalton, Director of IT, Boden, said, “As a company we’ve seen huge organic growth and product expansion in all markets over the past few years. As a retail clothing business we are focused on product. We pride ourselves on attention to detail and high quality products, and from a business point of view, wanted to identify what we could be doing in terms of efficiency and IT process improvements, all of which filter through to all aspects of the lifecycle of our products. We have our own in-house product master file database, but are mainly governed by manual processes. The ability to free up resources and automate specific processes would provide us with a platform to support the business both

today and in the future.”

Hitachi Consulting UK led a number of stakeholder interviews and workshops, and a consensus of current issues and technical objectives were agreed. Hitachi Consulting UK facilitated a review of three product lifecycle management (PLM) solutions which address the future PLM scope, helping to bring to life the modern systemic capabilities, and enabling the Boden team to understand how these capabilities could support strategic direction. Following this review, the scope of PLM was extended to include merchandise and assortment planning.

“Hitachi Consulting UK has helped us cut through the potential misconceptions of the technology and understand how specific solutions could work for us on a pragmatic level, without a lot of consultancy waffle,” commented Matthew Dalton. “PLM will enable us to improve efficiency, and also lend itself to the design, buying and merchandising teams, for example. Hitachi Consulting UK has helped us to identify best practice methodologies but also help cut through the hype and pinpoint what could work for us in terms of improvements verses what we wouldn’t change and what currently works. We were impressed with Hitachi Consulting’s UK Consulting team and their deep understanding of the retail sector. We will be looking at PLM implementation into 2012.”

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Picochip Achieves First Silicon Success for 40-nm picoXcel Femtocell Chip Using Synopsys' Lynx Design System

18 January 2012

[Synopsys, Inc.](#) announced that Picochip Ltd., who recently signed a definitive agreement to be acquired by Mindspeed Technologies Inc., has successfully achieved first silicon success using Synopsys' Lynx Design System and Galaxy™ Implementation Platform in the design of its next-generation 40-nanometer (nm) PC3008 picoXcell femtocell chip optimized for high-volume, cost-sensitive consumer applications. The Lynx Design System enabled Picochip's engineering team to upgrade to a pre-tested 40-nm Galaxy-based production design flow, saving significant time and effort compared to developing their own flow. In addition, Lynx's Foundry-Ready System enabled Picochip's engineers to begin design work within two weeks of initial deployment, accelerating their project start date by an estimated eight weeks.

"In the mobile communications market, each product generation requires higher performance and functionality at a lower cost. For Picochip to deliver this, it is essential that we are able to migrate process technologies quickly and easily," said Will Robbins, vice president of silicon at Picochip. "Synopsys' Lynx gave us a robust Galaxy-based RTL-to-GDSII design flow, which we could configure to our specific technology needs. This gave us a head start over simply having a set of tools with which to build a design flow. It allowed us to tape out our first 40-nanometer chip, whilst saving us months of R&D effort."

The PC3008 is the first in a family of devices that support the HSPA+ wireless broadband standard, delivering a low bill of material cost silicon device. It supports eight users with Release 9 HSPA+ (21Mbps downlink, 5Mbps uplink), incorporating Picochip's field-proven robust PHY and a 1GHz ARM11™ processor with TrustZone®.

The Lynx Design System is a complete chip design environment that includes a design flow enabled by Galaxy tools with innovative visualization capabilities to help create and track designs throughout the implementation cycle. Picochip adopted Lynx to mitigate the cost and risk of creating and maintaining a

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new production flow for its first 40-nm design and to meet an aggressive project schedule. Using Lynx, Picochip's engineers were able to immediately focus on optimizing the new design to meet both their 1GHz performance target and aggressive development cycle.

"The Lynx Design System offers tangible benefits for design teams looking to reduce the cost and risk of migrating to new technology processes," said John Koeter, vice president of marketing for IP and systems at Synopsys. "By enabling designers to implement chips more efficiently without sacrificing quality of results, and attacking total cost of design through systematic design flow management, leading design companies like Picochip are able to focus on what they do best – delivering differentiated design solutions in a competitive marketplace."

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Siemens Energy Launches the Sales Tool Tacton Configurator World Wide for its Industrial Power Business

18 January 2012

Siemens Energy Industrial Power will launch their new sales tool, Tacton Configurator, for use by sales teams in all regions worldwide. The tool will be used to create budgetary quotations for all products with a few exceptions.

Application engineers at Siemens have used Tacton Configurator for three years to generate firm quotations. Now the Siemens sales teams will use it globally to configure products during sales meetings.

"The beauty of Tacton Configurator is that it will guide the sales rep. through the sale and get the configuration of the product and quotation correct each time as potential conflicts and errors are resolved automatically by the configurator. It now takes us only five minutes to generate a complete budget offer including pricing, [and it] saves us tremendous amounts of time and money", says Jan Nilsson, initiator of the development project and Senior Engineer CRM Process & IT Development.

The new tool improves both the sales organization as well as R&D because it develops and maintains product information in the system. Implementation of this system has already resulted in much simpler maintenance.

"In our previous system, we had thousands of business rules. Using Tacton's system, we now have just a few hundred and this has made maintenance so much easier," says Asa Johansson, responsible for global coordination of Tacton.

Tacton's mission is to simplify sales of complicated products and solutions. The Siemens implementation demonstrates how quotation time can be reduced from days to just a few minutes without sacrificing accuracy.

"I am extremely happy to have our solution implemented at Siemens. It really shows that we can solve configuration problems and make organizations more effective regardless of the complexity of the products to be configured. We are looking forward to a long and successful relationship with Siemens," says Christer Wallberg, CEO Tacton Systems.

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SuVolta Expands Commitment to Magma's FineSim SPICE

17 January 2012

Magma® Design Automation Inc. announced that SuVolta, Inc., a developer of scalable low-power CMOS technologies in Los Gatos, Calif., has expanded its business relationship with Magma by entering into a licensing agreement to use the FineSim™ SPICE multi-CPU circuit simulator.

SuVolta's PowerShrink™ low-power platform reduces the power consumed by integrated circuits (ICs) by 50 percent or more while maintaining the same performance levels by minimizing the electrical variation of the millions of transistors on a chip. Using FineSim SPICE, SuVolta reduced simulation runtime, enabling the design team to increase test coverage by 4X without sacrificing accuracy.

"Our technology is used by advanced semiconductor companies that require the highest level of accuracy in verification of test chip data," said Robert Rogenmoser, Ph.D., SuVolta's senior vice president of Product Development and Engineering. "Magma's FineSim SPICE provides SuVolta with runtime improvements to ensure our designs are of the highest quality."

"SuVolta has emerged with game-changing technology that significantly reduces power consumption," said Anirudh Devgan, general manager of Magma's Custom Design Business Unit. "Their innovative approach is enhanced by the fast and accurate simulation of FineSim SPICE."

FineSim SPICE: Fast and Accurate Simulation

FineSim SPICE is a SPICE-level simulation analysis tool that incorporates transistor-level simulation analysis capabilities for mixed-signal and analog designs. FineSim SPICE is a full SPICE simulation engine with distributed processing that enables design teams to simulate large-scale mixed-signal system chips at the transistor level. By providing increased speed and capacity while maintaining full SPICE accuracy, FineSim SPICE enables designers to simulate advanced circuits — such as PLLs, ADCs (analog-to-digital converters), DACs (digital-to-analog converters) and gigahertz SERDES (SERIALIZER/DESERIALIZER) — they would not have attempted to test using slower traditional SPICE simulators.

About SuVolta, Inc.

SuVolta, Inc. develops and licenses scalable semiconductor technologies that enable a significant reduction in IC power consumption while maintaining performance. Based in Silicon Valley, the team includes engineers and scientists with a long history of technology development and innovation to advance the semiconductor industry. The company is backed by leading venture capital firms Kleiner Perkins Caufield & Byers (KPCB), August Capital, NEA, Bright Capital, Northgate Capital and DAG Ventures. For more information, visit <http://www.suvolta.com>.

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The Latest Version of WorkNC is a Quantum Leap in Toolpath Calculation Speed Says UK Company

16 January 2012

Counted as one of SESCOI's most loyal customers, Harvey Precision has seen some major advances in WorkNC since the original installation. John Harvey says, "Over the years we have seen some impressive leaps in functionality, but at the heart of WorkNC is its ease of use, its reliability and the quality of its toolpaths, which is what attracted us in the first place. However, the most amazing advance of all has been the speed increase we got with WorkNC V21."

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The company produces a large number of electrodes which it requires to spark the complex cavities it produces, so the reliability of WorkNC is an essential element in its production cycle. John Harvey explains, “When quoting, our customers send us a wide range of different CAD formats. Translation into WorkNC CAD is very easy and foolproof. Once we have the go ahead we can then import the 3D tool models in WorkNC CAD to extract the electrode shapes directly from the design data. Once the electrodes are inside our software we quickly analyze the electrode geometry for the smallest radius so we know the minimum cutter size required, we check draft angles and simply select a machining sequence from a set of standard machining routines that we have developed over the years. We apply this sequence to the new geometry to automatically create a new set of toolpaths which are perfectly adapted to each new electrode. It is easy to underestimate the complexity of this task and to forget about the problems associated with producing roughing and finishing electrodes from the same geometry. WorkNC makes it all very straightforward.”

The high speed Hurco machine used by Harvey Precision cuts the electrodes, rarely taking more than an hour even for the most complex ones. The blank electrodes are first mounted on System 3R pallets and then loaded onto System 3R pneumatic chucks on the machine table making location of the copper blanks quick and accurate. “Once we have created the CNC code for each new electrode in WorkNC we just press start on the machine and it works, the only labor involved is loading and unloading. We have recently added a robot to do the electrode handling, enabling us to run the CNC machine unmanned overnight, producing up to 16 electrodes in series without stopping! If we did not have WorkNC’s 100% reliability, this would be impossible” says John Harvey.

Just recently, Harvey Precision has upgraded to [WorkNC V21](#) and replaced its computer hardware with an i7 4 core processor. WorkNC V21 uses parallel processing and multi-threading algorithms to take advantage of the capabilities of these computers. John Harvey was highly impressed with the speed improvement. “I can only say that when I saw the speed of WorkNC on the new hardware my jaw hit the desk, it is a huge quantum leap in performance. We did a back to back comparison and a job that took 4 minutes 45 seconds on the old system took just 50 seconds on the new one.”

WorkNC is hugely important to Harvey Precision. John Harvey says, “WorkNC makes complicated things easy. We cut cavities in hardened steel and the high-speed toolpaths are absolutely reliable. We see the problems that other toolmakers have, and we just don’t get them. The surface finish in particular is excellent compared with others I have seen. Each release of the software has seen a refinement in the toolpaths which are very high contact with no wasted movement. We would not be in business without WorkNC.”

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wefunk (Americas) Inc. Selects Illumiti and SAP® Business ByDesign™ to Help Manage Growth

17 January 2012

Illumiti announced that wefunk (Americas) Inc. has selected the SAP® Business ByDesign™ solution as its business management software platform and Illumiti as its implementation partner.

wefunk is designer, manufacturer and innovator in the skateboarding industry. For over a decade, wefunk has been creating “Space Time Bending Machines” – rideable works of art that have remained the benchmarks for innovation and performance in the skateboarding world under the watchful eye of its founder and Formula 1 composites technician, industrial designer and master board builder Alexander Luxat.

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SAP Business ByDesign is a fully integrated software-as-a-service (SaaS) solution designed to help small and mid-sized companies manage their business operations. SAP Business ByDesign will provide wefunk with the robust and comprehensive solution needed to help manage its growing business operations across North America.

“We feel that wefunk is on the cusp of tremendous growth,” said Leslie Huszti, President and CEO, wefunk (Americas) Inc. “We have a game-changing new product line that we will be launching early this year that will revolutionize the long-boarding industry. We are pleased to be doing business with SAP and confident that [Illumiti](#) will deliver the results we need and that SAP Business ByDesign will provide us with the virtual access and scalability we will need to support this growth.”

Particular areas of focus for wefunk’s implementation of SAP Business ByDesign will include customer relationship management (CRM), partner relationship management (PRM), product lifecycle management (PLM), financial management, logistics and inventory management, as well as team collaboration via the SAP StreamWork™ application. wefunk (Americas) is expected to begin its implementation in January 2012 with a projected completion date of March 2012.

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Product News

CEI Launches New EnSight 10 for Improved CAE/CFD Visualization

17 January 2012

CEI Inc., maker of EnSight [visualization software for computer aided engineering \(CAE\) and computational fluid dynamics \(CFD\)](#), announced the debut of EnSight 10, the latest version of its 3D visualization software for post-processing of CAE/CFD data and analysis. EnSight 10 features an all new, structured volume rendering capability and a streamlined user interface for analyzing and communicating complex simulation results. CEI unveiled EnSight 10 during the 50th Annual [Aerospace Sciences Meeting](#) of the American Institute of Aeronautics and Astronautics that runs January 9-12 at the Gaylord Opryland Resort & Convention Center in Nashville, Tenn.

Exclusive “Practical” Volume Rendering

The hallmark of EnSight 10 is its exclusive new structured volume rendering capability, a major upgrade in speed and practical usability from its original debut in version 9.2. By using a structured, uniform mesh to render complex data sets, EnSight 10 offers better interactivity and eliminates the huge memory requirements that often result from unstructured volume rendering. The result is a smoother and faster rendering of large, complex data volumes. With the ability to run parallel rendering across multiple graphics cards and visualize volume datasets. The EnSight user can specify the structured volume’s resolution, allowing them to balance resolution versus graphics memory requirements.

EnSight 10 further enhances volume rendering by taking what was previously a multi-step process that required a tutorial or training and streamlining it into a single dialog with the critical steps all pulled into that dialog. “It’s the tightest we’ve ever integrated a feature in EnSight,” said Anders Grimsrud, founder and president of CEI. Future versions of EnSight 10 will also support distributed parallel volume rendering in the EnSight DR version.

“This is by far the most sophisticated version of EnSight yet,” said Robert J. Kares, Ph.D., Senior Technical Staff Member in the Applied Computational Physics Division at Los Alamos National

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Laboratory and a long-time user of the EnSight product line. “The ability to combine the new volume visualization feature with clips, isosurfaces and any of EnSight’s many other visualization tools has proven to be a tremendously powerful method for understanding the results from our petascale fluid flow simulations in 3D. This new capability has revealed an enormous wealth of important detail in our big 3D flow simulations that had long been hidden to us.”

New GUI, Customizable Toolbar

The all new EnSight 10 user interface offers exceptional customization options and ease of use with intuitive drag-and-drop and right-click capabilities. Now, EnSight 10 users can quickly color each part in the scene instantly by dragging and dropping calculated variables from new variables list. EnSight’s unique style manager allows the user to create customized graph styles with specific colors, font and other specifications, then apply this pre-built style onto other data graphs. This eliminates the need to configure each specific property of new plots one at a time, saving dozens of clicks, improving productivity and allowing the user more time to study the data rather than fuss with the appearance to get it just right. The drag-and-drop and right-click capabilities in EnSight 10 also make it easy to manipulate and modify various parts, viewports and other objects without having to manually switch viewing modes.

EnSight 10 even allows users to build custom GUI toolbars, similar to the Windows Ribbon, based on the options, features and functionality needed. For example, for jet engine analysis, place only the tools required for this work on the toolbar and eliminate the distraction and need to search through all the other functionality to find the tools required. If EnSight customers or developers build new features using the Python scripting language, those features can be added to the GUI toolbar as if the feature was included in standard EnSight.

Broader File And Language Compatibility

The new EnSight 10 is also more compatible with a wider range of data files and languages. Support for additional data readers includes the ability to read FLD files, a common Japanese format, as well as newer CGNS file versions, with both 2D and 3D parts in CGNS files now supported. EnSight 10’s GUI menu and dialogues can also be translated to other languages such as Japanese or Chinese.

“EnSight remains an enormously deep package and organizing this complexity is a big challenge,” Kares said. “This latest release proves that CEI continues to take usability seriously and demonstrates steady improvement in the evolution of organizing this complexity. This new version is very intuitive and easy to use and to learn, which are just as important as the analysis capabilities it provides.”

For more information about CEI’s new EnSight 10, visit www.ceisoftware.com/ensight10

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EMA Automates PCB Footprint Generation with New App for Allegro PCB Design

17 January 2012

EMA Design Automation™ (<http://www.ema-eda.com>), a full-service provider of mechanical and electrical CAD tools, announced the release of FootprintGen—an app which accurately automates the generation of complex PCB footprint (land pattern) models in a fraction of the time compared to typical manual methods. Both user-defined and the IPC-7351 standard settings are fully supported across a broad range of component families.

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“Footprint creation is a constant challenge for PCB designers,” said [Manny Marcano](#), president and CEO of EMA. “Today’s complex components have upwards of 2,000 pins or more, many with unique pad stack configurations, specific corporate drafting specifications, and manufacturing requirements. FootprintGen simplifies the task and saves designers critical project time.”

The process, driven by rules, settings, and component dimensioning forms, accurately builds parts in a consistent and repetitive process. An extensive set of component families are supported including BGA, CHIP, CHIPARRAY, DIP, LCC, LGA, PLCC, QFN, QFP, SOJ, and SOP with additional families added on a continuing basis. FootprintGen supports multiple user settings with user configurable line and text widths for solder mask, assembly, pad, and other layers. Designers can select from D-shape, oblong, or rectangular pad shapes, or they can customize a specific pad shape with rounding or chamfering specifications. Pad stacks are user configurable and can be assigned to unique locations including corner pads or specific row/column positions.

FootprintGen integrates with [Cadence® OrCAD® and Allegro® PCB design solutions](#), complementing existing [apps including SymbolGen](#). Using FootprintGen, PCB footprint models can be verified and correlated to the schematic symbol models, immediately identifying any errors or discrepancies.

FootprintGen is available for \$999 from the OrCAD Capture Marketplace, where OrCAD users worldwide can download free and paid apps to add functionality and customize their OrCAD products. For more information about FootprintGen, the other available apps, and how to get them into your OrCAD design environment, visit <http://www.ema-eda.com/orcadapps> or call 800-813-7494.

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Equalis Introduces Powerful Instrument Control and Fixed Point Modules

17 January 2012

Equalis, a provider of open source numerical analysis, visualization and simulation solutions for engineers and scientists, built on the Scilab open source numerical computation platform, announced the availability of its Instrument Control module and Fixed Point module. These powerful new capabilities are provided through the Equalis Pro and Pro Plus solutions respectively.

Equalis Instrument Control module provides direct connection between Scilab and an array of instruments including: oscilloscopes, waveform generators, spectrum analyzers, power meters and many others. The module enables Scilab to control your instruments with the serial port, USB, TCP/IP, or the GPIB bus. With this new module engineers can generate data, acquire data, and automate testing in order to verify hardware systems. The module builds on the popular GPIB toolbox, originally developed by Tibault Reveyrand, by adding features, stability, and compatibility. It is available through the Equalis Pro solution subscription.

Equalis Fixed Point module provides fixed-point data types in Scilab. Users can design fixed-point algorithms using Scilab syntax and then execute them in real-time. This data type allows users to leverage all the memory available on their PC, enabling them to choose very high levels of precision and minimize design iterations. It is available through the Equalis Pro Plus solution subscription.

Equalis, through its unique partnership with Scilab, provides a complete industrial grade solution consisting of the Scilab open source numerical computation platform, exclusive Equalis premier features and modules, as well as complete Equalis support programs for every type of user; be it educational users, professional users, or companies deploying globally. Scilab, downloaded more than 3,500,000

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times, is the de facto open source standard for numerical analysis and simulation.

In addition to these two new modules, the Equalis Pro and Pro Plus subscriptions also include comprehensive user support featuring the Equalis SOS portal, e-mail access to the Equalis expert support team, and accelerated bug fixes. In addition the Equalis Pro Plus subscriptions also include global real-time support capabilities in numerous time zones and languages.

Equalis Pro and Pro Plus solutions are available with prices starting at just \$495 and \$995 per user respectively. Existing Equalis subscribers can download these new versions from the company's customer portal.

"Our recent product introductions in signal processing and communication systems have quickly gained momentum in the market", said Carmine Napolitano, CEO and Co-founder, Equalis. "These new products further broaden our value proposition to a wider audience of electrical, systems, hardware, test and verification engineers."

For more information, please visit <http://www.equalis.com>.



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Flow Science Collaborates with Sigma Technology to Offer Free IOSO Trial Licenses

19 January 2012

Flow Science has entered into collaboration with [Sigma Technology](#) (Moscow, Russia), developer of the high-efficiency, multi-dimensional nonlinear optimization software known as IOSO. Sigma recently released IOSO 2.04, which has direct integration to **FLOW-3D**. Using IOSO in conjunction with **FLOW-3D**, engineers can improve the performance of complex large-scale systems and technological processes based on what-if scenarios for arriving at optimal parameters. Under the cooperation agreement, through Flow Science, Sigma will offer **FLOW-3D** customers in North America a free 90-day trial license for IOSO PM, which allows for parallel optimization on multiple nodes.

IOSO is intended to help engineers reduce the time and cost for solving complex practical tasks, by allowing them to find the most efficient technical solutions based on multiple goals or criteria assigned by the user (multi-objective formulation). It aims to help minimize the number of calculations or the amount of experimental work required, while still achieving optimal parameters for the real-life systems.

Interested customers should contact either Flow Science, at sales@flow3d.com, or Sigma's North American representative, Concepts NREC (White River Junction, VT) at sales@conceptsnrec.com. Training and support will be provided by Concepts NREC (Dr. Edward P. Childs, Ph.D., Associate Director of Support and Documentation, epc@ConceptsNrec.com) and Sigma.

Sigma was founded in 2001, and has been actively promoting and marketing IOSO throughout the world. Key customers include Gazprom, MAN, Pratt & Whitney, Sukhoi and many more. It can be found on the internet at: <http://www.iosotech.com>.

About Us

Flow Science, Inc. is a privately-held software company specializing in transient, free-surface CFD modeling software for industrial and scientific applications worldwide. Flow Science has distributors for **FLOW-3D** sales and support in nations throughout the Americas, Europe, Asia and Australia. Flow Science's headquarters is located in Santa Fe, New Mexico. Flow Science can be found on the internet at www.flow3d.com.

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GRAPHISOFT Releases ArchiCAD STAR(T) Edition 2012

16 January 2012

GRAPHISOFT announced the release of ArchiCAD STAR(T) Edition 2012, the latest release of its entry-level Building Information Modeling (BIM) solution.

The new ArchiCAD STAR(T) Edition 2012 is based on the BIM technology of ArchiCAD 15, but with a feature set and price tailored to the needs of small architectural practices, home builders, and building contractors.

ArchiCAD STAR(T) Edition 2012 contains all the tools necessary to create the BIM model from which the entire architectural documentation and the list of materials can be derived. Also, STAR(T) Edition offers the full benefits of the intelligent GDL object technology of ArchiCAD. The new release introduces functions to STAR(T) Edition users including:

Intelligent Element Connections – automatic connections between building structures and elements to help the creation and maintenance of the BIM model while preserving the flexibility architects need.

3D Design Space - 3D guidelines and editing planes to help the creation of the BIM model in the natural 3D environment including axonometric and perspective views.

Latest DWG-DXF file exchange capabilities with the 3rd party applications of consultants

For more information about STAR(T) Edition 2012, please visit the official product website. The International English version of STAR(T) Edition 2012 together with the German and Austrian versions are already available for orders. Other localized versions will follow during Q1, 2012.

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IBM Brings the Power of Analytics to Social Business

16 January 2012

IBM unveiled new software and services that delivers comprehensive networking capabilities to the increasingly social savvy workforce. Now, organizations can apply analytics to their social business initiatives, allowing them to gain actionable insight on social networking sentiment anytime, anywhere and put it to work in real-time.

As part of today's news, IBM is announcing new cloud services and the next-generation of its social networking platform, [IBM Connections](#). The new software incorporates sophisticated analytics capabilities, real-time data monitoring, and faster collaborative networks both inside and outside the organization through [IBM's SmartCloud](#) services.

Now, organizations can integrate and analyze massive amounts of data generated from people, devices and sensors and more easily align these insights to business processes to make faster, more accurate business decisions. By gaining deeper insights in customer and market trends and employees' sentiment, businesses can uncover critical patterns to not only react swiftly to market shifts, but predict the effect of future actions.

For example, marketing professionals can now gain real-time access to data that highlights patterns and consumer sentiment related to marketing trends and services allowing them to adjust campaigns on the

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fly. With one simple click, professionals can react to this insight by automatically creating a social network, on the fly, bringing together experts across geographical and market intelligence and swiftly respond to these insights.

To address these challenges, IBM is delivering new software and cloud services that brings the power of analytics to the social business:

New social analytics software that integrates wikis, blogs, activity streams, email, calendaring and more, and flags relevant data for action. It allows for instant collaboration with one simple click and the ability to build social communities both inside and outside the organization to increase customer loyalty and speed business results.

New software that integrates social networking capabilities with enterprise content management to better connect people with information so they can make informed decisions and act quickly.

The new [IBM SmartCloud for Social Business](#) simplifies access to business-grade file sharing, social networking, communities, online meetings, instant messaging, email and calendar. In addition, [IBM SmartCloud for Social Business](#) will deliver a cloud-based productivity suite allowing users to co-edit documents in real-time.

New messaging and collaboration software that brings the power of embedded experiences to the Web and mobile devices providing a single point of entry for all business processes.

In support of today's news, IBM also announced new clients using its social software and cloud collaboration services making it one of the world's leading providers of software-as-a-service (SaaS). New clients, including employees of Kraft, Electrolux, MIT Lincoln Labs, Colgate-Palmolive, 3M, Blue Cross Blue Shield of Florida, Dutch Tax Office, Premier Healthcare and Brunswick and are among the millions of users of IBM's social software and collaboration services on premise, in the cloud and via mobile device.

To hear how the leadership and IT teams at IBM client TD Bank Group are working across the company to become a social business, participate in a Livestream broadcast on January 17, 2012, at 8:30 AM ET at livestream.com/ibmsoftware.

New software helps clients get social in the workplace

With today's news, IBM is announcing the beta of the next release of its enterprise social networking platform, [IBM Connections](#). Powered by analytics, [IBM Connections](#) delivers the widest range of capabilities, including wikis, blogs, activities, to help organizations collaborate on the fly. [IBM Connections](#) includes the ability to access enterprise email, calendar and business tasks from inside the Connections platform, further unifying the collaboration experience.

The Connections landing page features a single location that allows users to view and interact with content from any third party solution through a social interface, right alongside their company's content, including email and calendar. The embedded experience of the news feed, also known as an activity stream, is expected to allow employees from any department inside an organization to explore structured and unstructured data such as Twitter feeds, Facebook posts, weather data, videos, log files, SAP applications, electronically sign documents, and quickly act on the data as part of their everyday work experience.

For example, an employee could share a document with colleagues, approve a transaction from an SAP system, act on a notification required in a business process like an insurance claim, and share content

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such as status updates and files, all from IBM Connections. The embedded experience and single point of access allows users to have insight at their fingertips and share data from any place, whether on the road or in the office.

One of the key findings from the 2011 [IBM Social Business Jam](#) - an online, real time discussion with 4,000 participants, was that Social Business activities need to be integrated and aligned with business processes to be truly effective.

To help clients address this challenge, IBM is announcing [IBM Connections Enterprise Content Edition](#), an integrated social content management solution that combines the scalability of social networking with enterprise content management and enhanced compliance and control features sought by users in regulated industries. Designed to manage the entire life cycle of office documents, Web and social content, [IBM Connections Enterprise Content Edition](#) increases the ability to share knowledge, gain expertise and create high-value content quickly through advanced content, document management and workflow use cases.

New, secure, cloud collaboration services

IBM is announcing [IBM SmartCloud for Social Business](#). IBM is aligning its LotusLive services under the [SmartCloud](#) brand where it joins the ever-growing portfolio of business solutions that IBM delivers in the market that includes offerings in Commerce, Analytics, and industry-specific solutions like Smarter Cities.

The new service gives users one-click access to social networking, file sharing, online meetings, enterprise-class email, calendaring and instant messaging allowing clients to collaborate inside and outside the organization while pairing business transformation with the economic benefits of flexible cloud delivery models.

Additionally, a new capability of the [IBM SmartCloud for Social Business](#) is a cloud-based office productivity suite, IBM Docs. Now in beta and planned for availability in 2012, IBM Docs allows organizations, both inside and outside the firewall, to simultaneously collaborate on word processing, spreadsheet and presentation documents in the cloud to improve productivity. IBM Docs authors will be able to store and share documents in IBM SmartCloud, co-edit documents in real time or assign users sections of the document so they can work privately easing the management of multiple revisions from multiple authors in team-based documents.

GAD, one of the largest specialists for banking IT in Germany, is evaluating the use of IBM Docs in a private cloud in 2012 to facilitate browser based document creation and change management. Approximately 450 banks will be able to reduce costs and become more responsive to their customers through GAD's bank21 solution.

Delivered in 22 languages, a 60-day trial of IBM SmartCloud for Social Business is available at no charge at ibmcloud.com/social.

Bringing embedded experiences to mobile devices

In response to the burgeoning mobile workforce, expected to reach more than 1.19 billion people by 2013, IBM's new social software supports the most popular mobile devices, including tablets.

IBM is announcing the beta release of IBM Lotus Notes and Domino, Social Edition, a social-enabled messaging and collaboration platform built on open standards that provides users with the ability to act on any work flow process directly within the email inbox. Whether accessing email from a browser or

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desktop, or sharing videos and files, users no longer have to travel to a third-party site. In addition, with the embedded experience of social mail, users are more efficient when engaging in activity and more responsive to day to day tasks.

IBM intends to support mail, calendaring and contacts in a beta release of IBM Lotus Notes Traveler for Microsoft Windows Phone on Nokia and HTC devices; the beta is expected in the first half of 2012.

IBM is also introducing a new, lower-cost program for BlackBerry users to access email in the cloud. Built on the world-class expertise of IBM Mobile Enterprise Services and the sophisticated security of the BlackBerry Enterprise Server, IBM helps bring the type of security and reliability expectations of on-premise email to cloud email environments, including built-in end-user and administrative controls for mobile device management.

For photos, videos and additional background on IBM's social business initiative, visit ibm.com/press/socialbusiness. Follow the conversation on Twitter at #ibmsocialbiz.

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Inforbix Introducing Mobile Search for CAD and Product Data on iPad

16 January 2012

Demand for mobile applications continues to grow, and Inforbix, <http://www.inforbix.com>, a company that develops intelligent apps for intelligent CAD and product data access, has responded by taking a step forward and providing their first mobile application for the iPad that gives customers the ability to search and access engineering data on the go.

Customers asked for a mobile solution that gives them the ability to search and access their product data in their company while out of the office or away from their computers. The new Inforbix iPad app provides users with that instant access.

“We are very excited to offer our first mobile application to our users,” said CEO Oleg Shilovitsky. “Mobility is trending. People want access to their data on the go, so we’ve responded by offering them a simple yet effective means of searching and accessing their data on the go.”

Inforbix is a collection of integrated applications that work together to assist customers in finding, re-using, and sharing product data. It is a cloud solution accessed by users via a standard web browser.

The underlying power behind the iPad app is provided by Inforbix’s semantic technology, which automatically finds and infers relationships between disparate sources of structured and unstructured product data. By linking and connecting related product data together, Inforbix is able to provide users with an ability to find, locate, and access product data quickly and thoroughly.

The service currently can access multiple file types and unstructured product data sources. Inforbix apps are cloud-based, fast to deploy, and require no data migration or maintenance, on premise data is not touched or moved into the cloud.

“There’s lots of data everywhere. Customers are asking ‘How can I access it all with a single solution?’ Enter Inforbix, and the new iPad app will take Inforbix, a fresh new approach to find, engage with, and administer product data in manufacturing companies, a giant step forward in accessibility,” Shilovitsky said.

Current Inforbix customers can immediately begin using the Inforbix iPad app, available for free on the

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Apple App Store at <http://www.inforbix.com/inforbix-mobile-search-for-cad-and-product-data-on-the-ipad/>. Account access taps existing Inforbix credentials. New users are encouraged to register with Inforbix to enable the iPad app to access product data within their company.

A video preview of the iPad app is posted at <http://www.inforbix.com/inforbix-ipad-app-first-preview/>.

About Inforbix

Boston-based Inforbix is a software company founded in 2010 that serves manufacturing companies worldwide. Inforbix offers apps that are simple tools that address specific product data tasks such as searching and accessing product data, organizing and presenting product data, and visualizing product data trends and patterns. Inforbix Search and Inforbix Tables are but the first in series of many affordable and easy to use and deploy product data apps. For more information on Inforbix visit <http://www.inforbix.com> or http://www.inforbix.com/contact_us/.

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INTEGRATED Introduces API Across the Board with Version 9.1

10 January 2012

[INTEGRATED Engineering Software](#), a leading developer of hybrid simulation tools for design analysis, has introduced the INTEGRATED API (Application Programming Interface) across its simulation software suite with the release of the version 9.1 upgrade, providing a powerful scripting tool.

The INTEGRATED API, which enables smart automation scripting, provides design engineers with an intuitive method of controlling the interface. This supplements the existing interactive, parametric and batch modes. It provides users with direct access to the internal workings of each software program in the suite, enabling them to write new analysis applications specifically to meet their own needs and ability.

Through the INTEGRATED API, users can seamlessly connect their own applications to INTEGRATED software programs without either application requiring prior knowledge of the inner workings of the other. Design engineers, research scientists and programmers will find this a very powerful tool, combining good design with good performance, which enables them to complete tasks that would previously have been extremely difficult and tedious to do interactively.

“Our API enables design engineers and scientists to explore ideas and find new solutions with this custom analysis tool,” comments Bruce Klimpke, Technical Director. “Users will now have the power and flexibility to combine INTEGRATED’s CAE software programs with the applications they use for specific design analysis areas. This customization will allow each particular design to work at an even higher level of sophistication than previously.”

The INTEGRATED API also provides a key building block for users to construct custom analysis tools. The functionality is easy to explain and the names are self-explanatory and consistent, in order to drive development. A programmer can write a script, or a full program, describing how to build and analyze a specific problem with selected user controls, and can then invoke the INTEGRATED program direct through the API to provide the analytical tools.

Using the dedicated user guide included within the program, samples can be written as Excel Macros with Visual Studio solutions/projects.

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Alongside the development and introduction of API features into the version 9.1 software release, INTEGRATED has included other new features within the upgrade, including:

- **Much greater parallelization** - as well as parallelizing the 2D BEM solver, there is more efficient use of parallel processing for the FEM solver and, in general, for post-processing operations
- **Faster mesh generation** - the time taken to generate an element mesh is now substantially reduced for many simulations
- **Weighting factors** - these can be used to inform the solver what areas are of special interest so it will produce especially good local results (fine element mesh)
- **Auto solver** - the auto solver setting will make the choice of FEM or BEM based on the general nature of the model. Either can still be manually forced
- **CAD** - new *.STEP/STP & *.SAT file import options; new geometry tools for healing common 3D CAD problems
- **Geometry** - the geometry now enables convenient names; new “block” option
- **LORENTZ** includes a new quasi-transient mode
- **New mixed mode in OERSTED** allows to establish effective permeability in nonlinear materials
- **INDUCTO** offers new heat/power source calculation
- **CHRONOS** now includes different methods of plane wave polarizations

Alongside this comprehensive software upgrade, INTEGRATED has developed its website to include a range of new demonstrative videos offering tutorials on the major new features in version 9.1, including API. These are available at: <http://www.integratedsoft.com/Support/Videos> .



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Intergraph® Publishes New Start-Up Guide for CADWorx® DraftPro™ Intelligent 2D Plant Design Solution

13 January 2012

Intergraph has published a new start-up guide for CADWorx DraftPro, its new intelligent AutoCAD®-based 2D plant design and layout solution that it is offering free via download. The start-up guide provides directions so that users who download the software can become productive right away. To download the CADWorx DraftPro start-up guide, visit <http://www.cadworxdraftpro.com>.

CADWorx DraftPro is specification driven, with hundreds of ready-to-use specifications in metric and imperial formats and over 60,000 piping components. Users can generate components on-the-fly as they are needed, and the built-in intelligence takes the guesswork out of placing piping components. Items easily connect and piping automatically breaks when the designer inserts components. With CADWorx DraftPro, the designer can draw elevations and sections of layouts and produce accurate, customizable bills of material of the design. The software comes with multiple languages and the files can be easily adapted to any language.

Always 100% free via download, CADWorx DraftPro uses the same piping specifications as CADWorx Plant Professional and works with all supported versions of AutoCAD. If a user at some point decides to move to 3D design, the user can convert CADWorx DraftPro specifications to CADWorx Plant

Professional at any time.

In conjunction with the product's release, live CADWorx DraftPro webinars on January 26, 2012 at 10:00 a.m. and 7:00 p.m. CT will provide demonstrations of the software. To register for the webinars on January 26th, visit <http://coade.typepad.com/coadeinsider/webinar---all/>. Intergraph has also published a video overview of the software. To view the video, visit <http://www.youtube.com/playlist?list=PL7E40D63706F54141>.

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OPEN MIND Technologies AG: hyperMILL in Tool and Mould Making

17 January 2012

[OPEN MIND Technologies AG](#) offers high-performance CAD/CAM technologies for tool and mould making. The integrated hyperCAD®/hyperMILL® system supports tool- and mould-makers every step of the way, from importing item data to NC program postprocessing. The current version of hyperMILL® 2011 includes several useful and high-performance functions.

Practically from the beginning, OPEN MIND Technologies AG has developed machining strategies for its hyperMILL® CAM system that are also very helpful for tool and mould making. Following head of development Dr. Josef Koch's motto, "tools and moulds are our passion," today's hyperCAD®/hyperMILL® CAD/CAM system supports the entire process chain in the tool and mould industry, thereby contributing significantly to the competitiveness of companies that use our products.

External CAD models can be used for stock definition

Before actual machining begins, hyperMILL® helps the user with its intelligent and dynamic stock definition. Stock contours can be generated from the surface models and solids of any CAD model. Surface models can now be used for stock definition in the 2011 version in the context of arbitrary stock roughing and material removal simulation.

The new version of the CAM software permits quick and simple collision checks for clamps. Clamps are managed as a separate element within the job list and can be managed and imported independently of the part model. As a result, clamps can be checked for collisions early in the machining calculation process.

hyperMILL®'s pocket feature recognition now also detects grooves in open and closed pockets with bottoms. In practice, this means that parallel walls are recognised as grooves, and their centre contour is displayed.

Even faster roughing

In addition to endmills or bullnose endmills, conical tools can now also be used for arbitrary stock roughing.

Efficient collision avoidance ensures that the tools are checked completely against the model, machine and clamps.

"For all tasks that might include 'shelling' roughing, or machining with a tool shank, our new hyperMAXX® can be used", explains Peter Brambs, head of the Global Engineering Service Group at OPEN MIND. The new model, which is also used from the hyperMILL® interface, generally allows higher cutting speeds while reducing wear and tear on both the tools and the machine.

With this new 5axis shape offset roughing and finishing machining strategies, curved surfaces can be machined with a consistent offset. This strategy enables very easy programming of complex geometries, such as engine housing parts or tyre moulds. “In combination with hyperMAXX®, this strategy enables very fast roughing”, says Peter Brambs.

Powerful for cavities

For typical tool and mould making geometries, such as deep cavities, and high and steep walls, hyperMILL® provides 5axis strategies that enable reliable machining with short tool lengths in these areas. Proven 3D strategies such as Z-level finishing, profile finishing, equidistant finishing or rest machining were updated with 5axis tool positions. Thanks to fully automatic calculation of tool positions, these machining tasks can be programmed in a way familiar to those who have worked with 3D machining.

Complete finishing is another strategy that has been customised for the requirements of tool and mould making. By combining Z-level finishing and profile finishing, this strategy can automatically adapt machining to the requirements of individual areas of a model. In accordance with the angle of slope defined, machining is divided automatically between steep and flat areas, which can both be processed in a spiral pattern.

Automatic rest machining

In the finishing cycle, automatic rest machining detects remaining stock machined areas. After defining the reference tool and the machining area, the requisite rest machining is automatically executed.

The consideration of multiple allowances is a new feature. The multiple allowances defined for specific milling areas are now also available for rest machining.

Last but not least, hyperMILL® 2011 has enhanced its automatic 5axis approach and retract macros. Within the 5axis cycles, the approach and retract paths use 5axis simultaneous motion. This allows all of the axes of the machine to already be moving when the cutter approaches the part, and avoids sudden accelerations when the cutter is in contact with the part. This results in smoother overall machine movement and cleaner transitions at the start and end of each milling movement. These automatic 5axis approach and retract strategies ensure greater quality and less programming time.

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The ZW3D 2012 Beta is Live

18 January 2012

ZWSOFT unveiled the beta program for its forthcoming ZW3D 2012, a flexible CAD/CAM software for all types of 3D modeling and machining. This new release promises significant improvements in many areas, with a special focus on increased modeling efficiency and advanced CAM operations as well as the new ribbon interface. More enhanced functions will come with the official release of ZW3D 2012 by the end of February this year.

Better User Experience

The user interface of ZW3D 2012 features the ribbon interface, along with a new in-context mini-bar and in-context help files. The integrated PARTSolutions library allows users to access the entire feature history of each part. The Lightworks add-on renderer generates professional-looking images.

Increased Modeling Efficiency, Better Direct Editing

ZW3D 2012 offers users numerous improvements in creating and editing 3D models. The replace face, extrude, rib, curve mesh, and extend face operations are all improved. Direct Edit 2.0 makes it more intuitive for users to modify parts through direct editing functions.

Faster Sketching, Assemblies, and Drawings

Sketching is now 50% faster due to the optimized work flow. With the more interactive interface, it takes fewer steps for users to arrive at the result they want. In assemblies, it's easier to move them with the new Assembly Move command. In 2D drawing mode, layout views are now associative, and users can apply solid-filled TTF fonts for text.

Advanced CAM Operations

The new 2X Turning Module gives users turning and milling in the same interface, with support for OD and ID roughing, finishing, threading, and grooving operations -- along with an improved hole-making process. Quick Mill gets a new undercut feature for creating 3x tool paths with wheel and T-slot milling tools for removing material beneath, thereby creating overhanging shapes. Together with the new CAM user interface, customers will appreciate the improved work flow.

Expanded Translation Capabilities

ZW3D 2012 now exports models in native STEP and ACIS SAT format, and the PDF exporter is beefed up with the new 3D mode. Images can be saved in a variety of high resolution raster files, and the STEP importer is now three times faster than before.

Beta Availability

ZWSOFT looks forward to having users test ZW3D 2012 beta and providing valuable feedback. Users are encouraged to download the beta program at: <http://www.zwsoft.com/en/zw3d-2012-beta-test/>, and then complete a survey on the ZW3D 2012 beta at:

<http://www.zwsoft.com/en/index.php?m=content&c=index&a=lists&catid=459>

About ZWSOFT

ZWSOFT is a CAD/CAM solutions provider for the AEC and MCAD industries, with over 180,000 clients in 80 countries. ZWSOFT's products, ZWCAD and ZW3D, have satisfied the needs of 2D and 3D designers for over a decade. Some of ZWSOFT's major clients include Siemens, Sony Ericsson, Panasonic, Carrefour, and Saint-Gobain. www.zwsoft.com

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Theorem Packages Two Separate CATIA to JT Translators as a Single Solution; Native and Mixed CATIA V5 and V4 Data Automatically Converted to JT Format

11 January 2012

Theorem's latest Universal CATIA translator for JT both streamlines and simplifies data translation and collaborative working, by automatically differentiating between CATIA V5 and V4 data files and converting them to JT in a single operation.

CATIA and JT are widely used in many long-term design projects and it is not unusual for design and manufacturing companies to work with both CATIA V4 and CATIA V5 on production work. Supply

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chain partners may use JT in their processes, resulting in collaborative projects that can involve a mix of both CATIA file formats as well as JT data. A further complication is that CATIA V5 assemblies may incorporate embedded CATIA V4 files - a fact that might not become apparent until there is a need to undertake data translation.

Providing a complete solution within a single product, Theorem's Universal CATIA to JT CADverter eliminates the need for users to identify which version of CATIA the target data is supplied in. It not only identifies and converts mixed native CATIA V5 and V4 files automatically, but also recognizes and translates CATIA V5 assemblies that include embedded V4 data - all without operator input.

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

Operation of the new CADverter could not be easier or more effective. For example, when working on a batch of files via the command line interface, users simply direct Theorem's new translator at a folder containing mixed CATIA models and assemblies, indicate the translation parameters to be applied, specify the destination folder and press enter. They can then move on to other tasks while the Universal CATIA CADverter for JT translates the target files without the need for any further operator interaction.

Theorem's Universal CATIA CADverter is a specifically designed translator supporting both 32bit and 64bit processing to CATIA V5 R21 and all versions of JT. Priced as a single translator with a single maintenance cost the latest offering from Theorem saves time, effort and money!

For further information please click [HERE](#)



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Xilinx Announces ISE Design Suite 13.4 Further Extending 7 Series FPGA Support and Design Productivity

18 January 2012

Xilinx, Inc. released ISE® Design Suite 13.4, which provides public access to the MicroBlaze™ Micro Controller System (MCS), new RX Margin Analysis and debug capabilities for the 28nm 7 Series FPGAs and partial reconfiguration support for the Artix™-7 family and Virtex®-7 XT devices.

MicroBlaze MCS Simplifies Microcontroller-based Designs

MicroBlaze MCS, new to the Xilinx® LogiCORE™ IP core offering, provides a turnkey microcontroller solution to Xilinx customers. It includes the MicroBlaze processor, local memory for program and data storage, as well as tightly coupled GPIO, timers, interrupt controllers and other standard peripherals.

MCS is supported across a broad range of Xilinx FPGA families, and is pre-configured for easy deployment by hardware developers. Software developers will find familiar tools including the Xilinx Software Development Kit (SDK), command line *gcc*, Xilinx Microprocessor Debugger (XMD) and the same standard MicroBlaze API used by larger processor configurations. Hardware developers will appreciate that the MicroBlaze processor and all Xilinx embedded IP cores are now supported with the Synopsys VCS simulator in addition to Cadence, Mentor and Xilinx simulation solutions. The MicroBlaze MCS is included in all ISE Design Suite Editions, ISE WebPACK and is compatible with AutoESL™ high-level synthesis tool v2011.4.

New RX Margin Analysis Tool

The ChipScope™ Pro tool, available in the ISE 13.4 release, now provides an RX Margin Analysis tool to help engineers optimize signal quality and lower the bit error ratio (BER) on their designs. The RX Margin Analysis tool uses 2-dimensional statistical Eye Scan algorithms to interactively characterize and optimize channel quality in real time, or during post-run processing.

4th Generation Partial Reconfiguration

Partial reconfiguration support for Artix-7 and Virtex-7 XT FPGAs is now available in the PlanAhead™ tool. Partial reconfiguration dynamically modifies logic blocks while the remaining logic operates without interruption. This means designers can use Artix-7 and Virtex-7 XT devices to build flexible systems that are able to swap functions and perform remote updates while operational. Partial reconfiguration also allows designers to reduce costs and design size by taking advantage of time-multiplexing that ultimately leads to reduced board space and minimizes bitstream storage because smaller, or fewer, devices can be utilized. Smaller and fewer devices can also lead to reductions in system power, while swapping out power hungry tasks can minimize the FPGA's dynamic power consumption. This marks the first time Xilinx is offering partial reconfiguration for an entire generation of FPGA families from low-cost to high-end.

"With hardware designs increasingly using more point-to-point buses, at faster speeds and sending larger data packets, it is becoming more important for design engineers to pay close attention to the quality, error rates and margins that such designs require," said Tom Feist, Senior Director of Software and Tools Marketing at Xilinx. "Increasing designer productivity continues to be the top focus for Xilinx. ISE Design Suite 13.4 further extends and simplifies our development tools to ensure their ease of use and support in deploying our entire 7 series FPGA families in these types of designs."

Extends Support for 7 Series FPGAs

ISE Design Suite 13.4 is the first public release supporting the Artix-7 and Virtex-7 XT FPGA families. The Artix-7 FPGA delivers the lowest power and lowest cost to address high-volume markets including: consumer 3DTV, multifunction printers, digital SLR cameras, automotive driver assistance and infotainment, low power handheld communications, medical endoscopes and handheld ultrasound devices and industrial system monitor and control. With Agile Mixed Signal (AMS) capabilities, included in all 28nm Xilinx devices, designers have the industry's most flexible general purpose analog interface for customizing a wide variety of applications, from simple control and sequencing to more signal processing intensive tasks like linearization, calibration, and filtering.

Virtex-7 XT devices offer the highest processing bandwidth with high performance transceivers, digital signal processing (DSP) and BRAM. These devices integrate an unprecedented up to 96 10G Base KR backplane-capable serial transceivers, provide 5.3 TMACs of DSP, 67 Mbits of internal memory and more than 1M logic cells. The Virtex-7 XT family utilizes Xilinx's revolutionary [Stacked Silicon Interconnect \(SSI\) technology](#), allowing multiple die to be combined in a single chip, and provides a 100x improvement in inter-die bandwidth per watt compared to multi-chip approaches.

PlanAhead Tool Extends User Productivity

The [Xilinx ISE PlanAhead Design and Analysis Tool](#) is a comprehensive development environment for design creation, analysis, planning and implementation. The PlanAhead tool accelerates time to production with a unique integrated front-to-back environment that includes design analysis at each phase of the design cycle – RTL development, IP integration, verification, synthesis and place and route.

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The end result is rapid convergence on power consumption, resource utilization and performance with fewer time-consuming design iterations. Up front design analysis and design preservation flows that ensure timing from run to run are critical for customers targeting the new 7 series devices.

The PlanAhead tool now provides public access for Xilinx 7 series FPGAs with productivity improvements to assist users in closing their designs, intelligent clock gating to reduce power, team design flows and fifth-generation partial reconfiguration technology now offered for Artix-7 FPGAs and Virtex-7 XT FPGAs to enable fewer or smaller devices, reduce power and improve system upgradability.

Availability and Pricing

ISE Design Suite 13 is available now for all ISE Editions and list priced starting at \$2,995 for the Logic Edition and now supports 32 and 64 bit Windows 7 operating systems. Customers can download full-featured 30-day evaluation versions at no charge from the Xilinx web site. Please visit the [ISE Design Suite 13](#) website to get started today with the ISE Design Suite 13 software release or for more information about the power and cost-saving design methodologies and productivity innovations introduced in ISE Design Suite 13.

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Xsens Motion Capture Data in Siemens PLM Software Jack

18 January 2012

Xsens, the leader in professional 3D tracking systems, announced that it has joined the Siemens Solution Partner Program to provide its motion capture solution for the Jack™ software ergonomics package, a part of the Tecnomatix® software family of digital manufacturing solutions.

Xsens, the world market leader in inertial motion tracking technology, has partnered with Siemens PLM Software to enable the quick and easy integration of its highly accurate human motion data capture solution with the world-class Jack software package. Jack allows manufacturers to address the ergonomic aspects of products and production processes in the early stages of design and development, thus improving safety, efficiency and comfort.

Erik Wilbrink, VP Sales & Marketing manager at Xsens, has high expectations of this partnership for the world of ergonomics. “The unique capability of capturing real human motion data for use in simulated environments, using MVN BIOMECH, can significantly improve the ease and accuracy of ergonomics analysis and speed up design processes.”

MVN BIOMECH is a 3D human motion capture suit containing 17 motion trackers based on inertial sensing technology. The use of Xsens sensor fusion algorithms and biomechanical models results in highly accurate 3D human motion reproduction, including the kinematics of 23 body segments and 22 joints.

Importing this data into Jack enables realistic task analysis of real humans carrying out real movements. [MVN BIOMECH](#) can be easily transported in a compact suitcase. Its mobile nature ensures it can be used anywhere: on an assembly line, on a factory floor, in tight spaces like a car or an airplane, as well as in the great outdoors, without the need for simulated environments or additional equipment.

“As the world’s number one supplier of digital manufacturing software, we are always looking for partners like Xsens to deliver high quality solutions to complement our Tecnomatix offering,” said Zvi Feuer, senior vice president and general manager, Manufacturing Engineering Software Business

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Segment, [Siemens PLM Software](#). “The integration of MVN BIOMECH further expands the motion capture options available to our customers. Solutions like these are a key part of how we help companies make smarter decisions for better products.”

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