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Acquisitions

Autodesk Completes Acquisition of ALGOR, Inc.

20 January 2009

[Autodesk, Inc.](#) announced that it has completed the acquisition of ALGOR, Inc. (ALGOR), a leading provider of analysis and simulation software. Autodesk announced its intent to purchase ALGOR for \$34 million on December 17, 2008.

The addition of ALGOR simulation technologies will enhance the Autodesk solution for Digital Prototyping with sophisticated new simulation capabilities such as thermal and fluid flow analysis, enabling customers to better optimize and improve product designs before manufacturing.

"The addition of ALGOR product lines to Autodesk's existing portfolio will complement our simulation capabilities and provide customers with a more comprehensive solution for Digital Prototyping," said Robert "Buzz" Kross, senior vice president of Autodesk Manufacturing Solutions. "We look forward to an exciting new chapter in helping our customers make informed product development decisions."

Business Outlook

This transaction is expected to have no impact on previously issued guidance.

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Mentor Graphics Extends High Level Synthesis Leadership with Acquisition of Agility Design Solutions Inc. C Synthesis Suite

23 January 2009

[Mentor Graphics Corporation](#) announced completion of the acquisition of the C synthesis assets of Agility Design Solutions Inc. These tools were formerly owned and marketed by Celoxica Holdings. Mentor Graphics intends to offer continued sales and support to existing customers, as well as an upgrade path to Catapult C® Synthesis, a high level synthesis tool.

The electronic system level (ESL) products associated with this acquisition are the Handel C-based algorithm synthesis flow found in the DK Design Suite, PixelStreams and the RC Series of FPGA development and prototyping boards. Key employees will join Mentor to ensure continued product support.

“This agreement reaffirms Mentor’s leadership in ESL design with the richest ESL tool suite on the market,” said Simon Bloch, vice president and general manager of Mentor’s Design Creation and Synthesis Division. “Mentor is happy to work with Agility to provide its customers a home that gives them full support for their legacy products until they are ready to upgrade to Catapult® C Synthesis on their own terms and schedule.”

“Mentor understands ESL very well and is offering our customers continued support and a way forward with a technology that has proven itself to be a time-to-market saver,” said Dave Burow, Agility’s CEO. “By working with Mentor Graphics, we can safeguard the trust that our customers put in us.”

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Company News

Anark Names Chris Garcia Senior Vice President, Business Development

22 January 2009

Anark Corporation announced the addition of industry veteran Chris Garcia as Senior Vice President of Business Development.

In his new position, Mr. Garcia will leverage his substantial knowledge and experience within the CAD and PLM industry to form new strategic alliances and channel partnerships for Anark’s products and solutions.

Most recently, Garcia was Vice President of Research and Development at Dassault Systems SolidWorks Corporation, a position he held for 5 years. At SolidWorks, Garcia led a staff of over 300 engineers located in offices spread over 6 countries, focusing on the research, development and release of the SolidWorks product offerings. In addition, Garcia spent much of his time leading the definition and optimization of the global software development processes and infrastructure utilized at SolidWorks today.

"We are extremely excited to have Chris as a member of our executive team," remarked Stephen Collins, CEO, [Anark Corporation](#). "His substantial experience in market development, product and business planning, strategic alliances, and software product development position him well to cultivate and support high-impact partnerships with complementary solution providers and channel partners. This will make a considerable impact on how we market our products, extend their reach, and bring increased

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value to our customers."

"I am delighted to join Anark during this exciting period of growth," said Chris Garcia. "My many years of strategic business development and product engineering have given me a strong appreciation for innovative technologies and the business opportunities they enable. Anark's suite of products are uniquely positioned to provide real value within a wide range of industries where organizations need to more effectively utilize their 3D CAD data and other graphics assets for use across the enterprise. I am very pleased to join this talented and innovative team."

Prior to his tenure at SolidWorks, Garcia founded Xygent, a division of global manufacturing automation software provider Brown & Sharpe Inc. He has also held management roles at Tecnomatix Technologies Inc., and was the founder of their Valisys software line of products. Garcia earned a master's degree in business administration at Santa Clara University, a bachelor's degree in computer science and general engineering from San Jose State University, and holds an accreditation from the MIT Sloan Executive Education program.

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Autodesk Manufacturing Community to Select 2008 Inventor of the Year Award Winner

21 January 2009

Autodesk announced the beginning of the official Inventor of the Year voting process.

The company is encouraging members of the manufacturing community to visit Autodesk community web site at <http://mfgcommunity.autodesk.com> and choose which of the 2008 Inventor of the Month recipients should be named Inventor of the Year.

The Inventor of the Month program recognizes the most innovative design and engineering advancements made by the extensive community using Autodesk Inventor software - the foundation of the Autodesk solution for Digital Prototyping. A digital prototype allows users to design, visualize and simulate a product before it is built, reducing the reliance on constructing multiple physical prototypes.

The Inventor of the Year is chosen from the monthly award winners for 2008.

The monthly winner with the highest rating selected by community members will be awarded the title of Inventor of the Year. The voting begins January 20 and closes February 20 at 5 p.m. ET.

Inventor of the Month winners for 2008 included:

January 2008: **Triple Eight Australia** competes as Team Vodafone in Australia's V8 Supercars race competition. Triple Eight Australia designers use Autodesk Inventor software to experience and optimize the performance of the car before it reaches the track.

February 2008: **OPEX Corporation** is a recognized global technology leader in high-speed mailroom automation equipment. OPEX relied on the Autodesk Inventor product family to help design its innovative Mail Matrix, a mail sorting solution that redefines the capabilities, functionality and performance of the mailroom.

March 2008: **ADEPT Airmotive** is a manufacturer of general aviation engines for the light aircraft market. Leveraging Digital Prototyping capabilities within Inventor allowed ADEPT to produce accurate 3D models of the 320T engine before anything was actually built - reducing the number of physical prototypes that needed to be constructed.

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April 2008: **Unverferth Manufacturing Company, Inc.** is a leading provider of agricultural equipment and machinery. Engineers at Unverferth were able to design specific tillage components, specify their ranges of motion, and use the kinematics built into Inventor to simulate components in action.

May 2008: **Sound Devices, LLC** is a manufacturer of professional audio recording and mixing equipment. Digital prototypes created with products from the Inventor family of products proved invaluable in helping Sound Devices check for interferences between various components and explore design variations before anything was actually built.

June 2008: **42 Surfboards** is an Oregon-based manufacturer of classic surfboards. Autodesk Inventor software enabled 42 Surfboards to create a new generation of wooden surfboards by taking the strength of woods like spruce and poplar and giving it the lightness and performance of lighter materials like foam and balsa wood.

July 2008: Responsible for the United Kingdom's national scientific activities in Antarctica, the **British Antarctic Survey** uses Autodesk Inventor software to design crucial tools that allow the organization to more effectively carry out research and provide insight into key 21st century challenges such as climate change, ozone depletion and rising sea levels.

August 2008: **Wipaire**, a leading manufacturer of aircraft floats and pontoons, used Autodesk Inventor software to design the water-scooping pontoons of the FIRE BOSS, a fire-suppression plane that provides a versatile tool in the fight against wildfires.

September 2008: **Genmar Yacht Group**, which manufactures luxury yachts under the Carver and Marquis brand names, used Autodesk Inventor software to design its new Marquis 420 Sport Coupe, which was recognized as the best new yacht in its class at the 2008 Miami International Boat Show.

October 2008: **ClearEdge Power, Inc.** is a provider of ultraclean and efficient on-site energy generation systems for homes and small businesses. ClearEdge used Autodesk Inventor software to develop its first product, the CE5, a highly efficient energy system that converts clean natural gas into two important home and business energy needs: heat and power.

November 2008: **Elmarco** is a Czech-based manufacturer of industrial machines for the production of nanofiber. Elmarco relied on Autodesk Inventor software to develop its Nanospider line of machines, which make the production of nanofiber textiles possible on an industrial scale -- allowing the benefits of nanotechnology to more readily be applied to a wide range fields, from medicine to technology.

Autodesk selects each Inventor of the Month from the more than 800,000 users of Autodesk Inventor software, the foundation for Digital Prototyping.

Winners are chosen for engineering excellence and groundbreaking innovation.

For more information about Autodesk Inventor of the Month, contact us at IOM@autodesk.com.

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Delcam Offers Free ArtCAM Demo Software for Artistic Users

22 January 2009

Free demonstration versions of Delcam's ArtCAM Express and ArtCAM Insignia artistic CAD/CAM software are now available. Both programs can be downloaded from the <http://www.artcam.com> web site or obtained on a CD by emailing marketing@delcam.com.

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The CD includes a range of supporting materials, including an image gallery, case-studies and an overview of how to use ArtCAM. There are also six demonstration videos and accompanying tutorials to help prospects learn the software.

These cover 2D and 3D modelling and machining of some simpler designs, nesting of shapes and V-bit carving.

Both these trial versions are save-disabled so prospective users cannot output designs and toolpaths that they have developed. However, six sample ArtCAM models are supplied with the demonstration software. Toolpaths for these models can be created with the full set of machining strategies and output using any of the 180 standard post-processors supplied with ArtCAM. This will allow potential customers to test the software for compatibility with their machines tools before they buy.

Both ArtCAM Express and ArtCAM Insignia are aimed at skilled artisans rather than engineers and require little knowledge of engineering or computing. ArtCAM Express offers basic 2D drawing, and 2D and 3D machining functions, and so provides an ideal introduction to computer-based manufacturing for companies in the signmaking, woodworking and engraving industries.

ArtCAM Insignia offers more options for mass-production applications, especially in the woodworking industries. It includes vector-based design, extensive 2D machining and basic 3D machining functionality. It also allows users to import, scale, position and machine 2D and 3D decorations and textures onto their designs, and so to manufacture more distinctive and more attractive products.

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DP signs Agreement with Italian Lathe Manufacturer GRAZIANO Tortona S.r.l.

9 January 2009

The Italian branch of DP Technology Corp., creator of ESPRIT®, and GRAZIANO Tortona S.r.l., a major Italian manufacturer of automatic lathes, have signed an agreement by which GRAZIANO's full range of universal 4-axis turning machines will be equipped with ESPRIT.

Forged on the common goal of constant growth, this technical collaboration ensures that GRAZIANO machines will be powered by ESPRIT specifically for the purpose of generating accurate toolpath, and that simulation capabilities and post processors for the full complement of the company's 4-axis arsenal will be made available to all ESPRIT users.

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DP Technology Moves its Midwest Team to a Larger, New and Improved Site

21 January 2009

After more than a decade at its previous location, international software company DP Technology, creator of the ESPRIT® computer-aided-manufacturing (CAM) solution, has moved its Illinois-based team to a larger, new-and-improved office in the city of Rosemont.

DP's Midwest staff now operates from the fourth floor of a spacious, modern office building that translates to immediate rewards for personnel and customers alike. The new office — which, like its previous incarnation, is the DP branch that conducts the lion's share of ESPRIT training for the mid-west region of the United States — can now accommodate more customers more comfortably, and in

more style, than the former site.

The new office includes expanded training facilities and a fully-equipped break room, as well as access to two eateries, a deli, a snack shop, a 150-seat auditorium and a security and information center.

Proximity to Chicago O'Hare Airport, a nearby train station and two adjacent hotels — not more than 100 yards from the new office — make traveling to this ESPRIT training easier than ever.

DP's Midwest office is located at 10275 Higgins Road, Suite #420, Rosemont, IL., 60018. The office can be reached by telephone at 1-847-297-8100 and by fax at 1-847-297-8107.

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DP Technology Signs Agreement with Italian Machine-Tool Builder Salvadeo S.r.l.

7 January 2009

DP Technology, maker of ESPRIT® CAM, has signed an agreement to become an official partner of Salvadeo S.r.l., a forerunning Italian builder of machine tools.

The agreement has arrived on the heels of a lengthy benchmark testing process, throughout which the machine-tool builder came to appreciate the combined power and ease-of-use of ESPRIT Mold for all 3- and 5- axis continuous milling machining needs.

"It is a strategic synergy between two important companies that complement each other," said Bruno Monelli, DP's Italian director of sales, of the agreement.

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Kalypso and Endeca Announce Partnership in Support of Engineering and PLM-Related Information Visibility Solutions

19 January 2009

[Kalypso](#) and Endeca Technologies, Inc. announced a strategic partnership to deliver best-in-class information visibility to manufacturers. The companies will work together to bolster engineering, product design and product lifecycle management (PLM)-related initiatives for clients by providing cutting-edge technology to locate and manage information across an organization's global platform in ways not possible with today's common CAD, PDM/PLM-only toolkit.

The partnership enables Kalypso to continue to bring industry-leading product innovation and PLM expertise to the world's top manufacturing organizations, and represents the latest in a series of organizational investments at Endeca to expand its presence in manufacturing.

"Kalypso is extremely well respected as authoritative experts in Product Lifecycle Management (PLM), said Ric Zaenglein, Global Lead, Manufacturing, at Endeca. "Our partnership introduces tools and benefits beyond anything available on the market today, and will go a long way toward addressing the well known pains and short comings of legacy PLM initiatives."

Extreme market conditions, increasing consolidation and rapid shifts in consumer demand have placed additional risks and upfront costs on product innovation and new product development. These challenges are compounded by the sheer volume of data engineers have at their disposal to inform and influence new product design decisions. Advanced information visibility solutions, such as those offered by Endeca, provide cross-functional groups with new, contextual information as well as historical data

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that can reduce research within multiple systems and promote innovation by bringing forth new development possibilities. These solutions introduce opportunities for manufacturers to increase margins, lower costs, reduce downstream supply chain risks and create new competitive advantages from their existing information investments.

In a recent online educational session delivered by Endeca and Kalypso entitled "Information Visibility Challenges in Product Lifecycle Management," the partners illustrate how leveraging advanced information visibility solutions facilitates innovation and new product development by enabling visibility of valuable product-related data, increasing information reuse, and decreasing time spent searching for information. Kalypso also recently published a white paper from an independent research effort to understand how advanced information visibility technologies can drive increasingly efficient innovation. Download Advanced Information Access: The Application of Search and Analytics Technology in Product Development at <http://www.kalypso.com/aia>.

"The discovery and visibility benefits possible with information visibility technology like Endeca's are a key missing link in PLM and today's product development environment," said Bill Poston, Managing Partner at Kalypso. "By partnering with [Endeca](#), we can help our clients increase productivity from information reuse and reduce both upfront and downstream design costs, while accelerating innovation and time to market."

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New WorkXPlore 3D Website Allows Engineers to Download High Speed Collaborative CAD Viewer Free

22 January 2009

Visitors to SESCOI's new English language [website](#) for WorkXPlore 3D, its high speed 3D CAD viewing, mark-up and analysis solution, will be able to download a copy of the system and sign up for live web demos completely free of charge.

Designed to enable collaborative working in engineering companies, WorkXPlore 3D can import and amalgamate very large CAD models from multiple design systems, check dimensions, volumes and interferences, annotate changes, and share this information with colleagues, customers and suppliers.

In addition to offering free web demo sessions, the new website features a comprehensive set of easy step-by-step tutorials showing how to use the software as well as demo videos illustrating how WorkXPlore 3D is used in a real working environment. All tutorials and demos are free to access, enabling engineers to fully evaluate the product's capabilities and ease of use from their own desktops.

WorkXPlore 3D comes in three versions - Viewer, Collaborative and Manufacturing Pro. The free download available on the website gives 30 days full use of the top specification Manufacturing Pro version, which features a raft of analysis functions including flat surface detection, draft angle measurement, and 3D model export, as well as all the collaborative tools. After the 30 day free trial, WorkXPlore 3D reverts to the Viewer version, which can continue to be used for an unlimited period of time, at no cost.

Companies can make significant savings by making the most of the expertise and resources available within their local and extended organisations. WorkXPlore 3D simplifies this process by allowing users to share information using a combination of the free Viewer version of the software and any or both of the two fully function versions, according to the role and requirements of the user involved.

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Si2's Open Modeling Coalition Releases Document on Statistical Design Techniques

21 January 2009

The Open Modeling Coalition (OMC) has released a document titled “Statistical Methods for Semiconductor Chip Design.” The document was developed by the OMC's Statistical Working Group, and is freely available to the industry on the Si2 web site link as noted below. The OMC is a project under the auspices of the Silicon Integration Initiative (Si2), and the OMC member list is provided below. This significant public resource is intended to help guide industry in the understanding and application of statistical techniques in chip design flows, engaging broad collaborative alignment of companies spanning semiconductor, EDA, and IP industry segments.

This document concerns itself with statistical techniques needed to ensure the progression of Moore's law. Lithographic and other process techniques are becoming more and more limited in what can be accomplished from one generation to another. To ensure that scaling can continue to provide the semiconductor industry and its customers the required improvements in performance, better statistically based tools and techniques need to be applied so that design specific requirements can be optimized around technology specific effects.

The document outlines “best practice” techniques that are being adopted by much of the industry regarding statistical design and how such methods fit into a typical design flow. Topics covered include:

1. Need for Statistical Techniques in a Design Flow
 - 1.1 Definitions and Acronyms
 - 1.2 Case Study, Technology Trends & Limitations in Lithography
 - 1.3 Case Study, Statistical STA vs. Conventional STA
 - 1.4 Case Study, Chip Timing and Optimization Using Statistical Analysis Methods
2. Intended Usage of Statistical Techniques in a Design Flow
 - 2.1 Design Flow Description, Concept to Reality
 - 2.2 Initial Intent of Specification
3. Specification Details
 - 3.1 Physical Variation Effects & Their Approximations
 - 3.2 Mathematical Modeling for SSTA
 - 3.3 Timing Propagation

This document is intended to advance the understanding in the industry of statistically based methods and to encourage and support their implementation and use. Following is a link to the document: “Statistical Methods for Semiconductor Chip Design”: <http://www.si2.org/?page=1003>.

To hear more about the OMC and other Si2 activities, everyone is invited to attend the Si2. Member/Guest meeting at DesignCon on February 2, for more details: <http://www.si2.org/?page=11>.

About the Open Modeling Coalition (OMC)

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The OMC technical objectives are to define a consistent modeling and characterization environment in support of both static and dynamic library representations for improved integration and adoption of advanced library features and capabilities, such as statistical timing. The system will support delay modeling for library cells, macro-blocks and IP blocks, and provide increased accuracy to silicon for 90nm and 65nm technologies, while being extensible to future technology nodes. Member companies are: Advanced Micro Devices, Altos Design Automation, ARM, Cadence Design Systems, Fenix Design Automation, IBM, IMEC, Nangate A/S, NXP Semiconductors, Renesas Technology Corp. For more information on the OMC, visit: <http://www.si2.org/?page=625>.

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SoftInWay Expands Its Team to Meet the Growing Demand for Turbomachinery Design Software

17 January 2009

SoftInWay Inc has added two new members to its Sales and Marketing Team. Ronnie Lindgren joined SoftInWay as International Sales Manager to drive awareness of AxSTREAM software worldwide, and Chris Bocci will primarily focus on SoftInWay sales and consulting services in North America in the capacity of National Sales Manager.

During the recent years SoftInWay has extended its market leadership positions worldwide. With the increasing global demand for advanced turbomachinery design tools and professional FEA and CFD services, the company needs new staff members to develop its market strategies.

Ronnie Lindgren brings a wealth of experience to this new position. Ronnie has more than ten years of international sales experience and has recruited and managed resellers in Europe and Asia for over eight years. As SoftInWay International Sales Manager, he will be responsible for developing existing outlets, entering new markets and expanding the company's presence in Europe, Middle East, Africa, Australia and Asia,

Chris Bocci will be responsible for growing sales of AxSTREAM and SoftInWay consulting services in North America. Chris has a Bachelor's degree in Computer Science from Boston College and brings several years of experience in selling software, automation, and control solutions to the solar and semiconductor industries.

"We are very excited to have these talented people join our team," said Dr. Leonid Moroz, Chairman and CEO of SoftInWay Inc. "Their extensive experience and proven performance will be a valuable asset to [SoftInWay](#), as we continue to grow to meet the demand for turbomachinery design software."

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Sopheon Partners with Maxsoft to Provide Product Innovation Management Solutions in India

21 January 2009

Sopheon announced that it has established a partnership with Maxrad Software India Pvt Ltd (Maxsoft), a leading provider of computer-aided engineering tools. Under the terms of the agreement, Maxsoft will market Sopheon's Accolade solution throughout India. It will also deliver configuration, implementation and training services related to the software. Maxsoft supplies high-end software tools and solutions to automotive, aerospace and defense manufacturers. The company is based in Bangalore, with branch offices in Pune and New Delhi.

CIMdata PLM Industry Summary

Today's manufacturers are increasingly dependent upon product innovation for business growth. As a result, the global market for product lifecycle management software is expanding rapidly. Sopheon's Accolade is a successful PLM solution for the support of innovation governance and product portfolio management. The software replaces inefficient paper-based processes, automating product innovation and helping companies ensure that commercially promising new products get to market cost-effectively and on time. Deployment of Accolade creates a centralized best-practice system that supports decision-making and lifecycle management from a product's inception as an idea until it is retired from the marketplace.

In commenting on today's announcement, Rajeev Gopalakrishnan, chief executive officer of Maxsoft, said, "We are extremely happy to partner with Sopheon to bring Accolade into the Indian market. This relationship allows Maxsoft to provide manufacturers throughout India with a solution that will enable them to structure and govern their new product development processes from end to end. The Sopheon system has proven consistently that it can connect with a company's innovation strategies and provide process automation and decision support that will lead to higher levels of revenue growth and profits from new products. We believe that Sopheon's Accolade is the right solution at the right time for the Indian market."

The development phase of product innovation is critical to every manufacturing organization, but of particular importance to automotive, aerospace and defense companies where the cost of program execution is especially high. The achievement of program goals in these industries often requires collaboration among cross-functional teams spread across companies, countries and cultures. Success also hinges on being able to effectively control complex resource and technology dependencies while tightly managing program requirements and risk. Accolade streamlines collaboration and makes program requirements visible with a level of detail that ensures precise, informed, cost-effective program management.

Industry analysts predict that the already strong global demand for product lifecycle management software will continue to grow at double-digit rates through 2012. The market for the software class led by Sopheon's Accolade is expected to expand at a 17% CAGR. In India, industry experts are reporting a veritable boom in demand for PLM solutions.

"India has declared innovation to be a strategic national priority," said Huub Rutten, Sopheon's co-founder. "Companies throughout the country are focused on finding ways to generate maximum value from new and emerging products and technologies, a challenge that is core to Accolade's value proposition. Maxsoft knows the Indian market for engineering, R&D and product innovation solutions inside out. Their record of success as a distributor, together with the strength of their competencies, experience and contact networks, will accelerate the introduction of Accolade to Indian manufacturers. This is an exciting move for Sopheon."

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Surfware, Inc. Appoints Greg Schils as New Product Manager

21 January 2009

[Surfware, Inc.](#) announced that Greg Schils has been promoted to the role of Product Manager. Greg will oversee all Surfware product development, including expanded functionality for both SURFCAM and TrueMill® technology.

Greg has been with Surfware for over 13 years as an integral part of the Application Engineering

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Department. As a certified journeyman toolmaker, Greg has over 25 years of experience in the industry with extensive knowledge in CAD/CAM applications, multi-axis machining, and mill-turn post processing.

Greg's unique background of shop floor experience, and a comprising knowledge of software packages such as Solidworks gives him a distinctive approach to product development.

"We're very pleased that Greg has accepted the position of Product Manager," says Stephen Diehl, President and CEO of Surfware. "His skill-set with SURFCAM is one of the best in the market. Our products and company are growing quickly and will benefit from Greg's leadership. With his valuable combination of software knowledge and hands-on experience, Greg will provide an innovative, solutions-based approach to product development at Surfware."

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Virage Logic Announces Restructure

21 January 2009

Virage Logic Corporation announced a restructure as part of its on-going transformation to become a broad line supplier of highly differentiated standard IP products. The restructure includes the consolidation of two smaller research and development (R&D) sites into four major R&D centers and closer alignment of sales resources to market opportunities. As a result of the restructure and the anticipated increase in efficiencies, the company expects to realize approximately a 13% reduction in labor expenses.

"For the past eight quarters, the company has been successfully executing on its transformation plan based on a set of strategic initiatives. These initiatives include: 1) being first to market with next generation advanced technology products, 2) broadening the product portfolio through both organic and inorganic growth, and 3) building Virage Logic into a company that is a trusted IP partner in the industry through deeper engagements with long standing IDM and foundry partners," said Dr. Alex Shubat, president and chief executive officer (CEO), Virage Logic. "In the past, our product line development was concentrated around custom IP products for each of our customer's solutions. The issue with this model is one of fundamental scalability. Therefore, in the past two years, we have focused our product efforts toward the creation of families of feature-rich standard product IP that meet the requirements of a broader customer base without the need for customization. The result has been a dramatic improvement in net return on investment of our research and development spending. As we continue our transformation, we are continually optimizing our operations to take full advantage of efficiency improvements."

Dr. Shubat continued, "We are confident that the transformation initiatives we have been executing on and the actions we are taking with this restructure will enable us to retain our leadership position. In addition, by preserving our strong balance sheet, we are well positioned to further execute on both our organic and inorganic growth initiatives as the semiconductor industry rebounds."

Virage Logic's restructure will result in the closing of its R&D centers in New Jersey and Minnesota. The development previously done at these locations will be transferred to the company's larger R&D centers located in its Fremont, California headquarters or development centers in Armenia and India. In addition, the company is consolidating its non-volatile memory (NVM) development to its Seattle, Washington R&D center that was established as a result of the acquisition of Impinj Inc.'s NVM IP business in June of 2008.

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Finally, the restructure aligns the company's global Sales organization to better meet current customer requirements and future market opportunities. The changes complement the addition of five new sales representative firms - covering the Silicon Valley, Japan, Israel, Italy, France, Scandinavia and the United Kingdom - that were announced in the previous quarter. The company will continue to tune its Sales operations with a mix of direct sales staff and sales representatives to optimize its market penetration and minimize selling expenses.

Dr. Shubat concluded, "This restructure, together with our on-going transformation initiatives, underscores our commitment to continually improve our global operational efficiencies and reduce our overall cost structure to solidify the foundation for our future growth and scalability. In today's uncertain economic environment, we are even more vigilant in the monitoring and management of our resources to ensure we remain competitive."

Virage Logic's management will hold a teleconference on first-quarter fiscal year 2009 results at 1:30 p.m. PACIFIC / 4:30 p.m. EASTERN on Wednesday, January 28, 2009. Participants can access the call by dialing (888) 413-9033 (domestic) or (706) 679-5076 (international) or can listen via a live Internet webcast, which can be found on the Investor Relations page of the Virage Logic website at <http://www.viragelogic.com>. A replay of the call will be available at (800) 642-1687 (domestic) or (706) 645-9291 (international), access number 81589587 through January 31, 2009; and the webcast can be accessed at <http://www.viragelogic.com> for 30 days.

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Events News

Cimatron Powers Latest Milling Machines at IMTEX

21 January 2009

Cimatron Limited announced that its CimatronE software will be used to program top of the line milling machines at the prestigious Indian Metal-Cutting Machine Tool Exhibition (IMTEX).

Participants at the trade show will see, first hand, the precision cutting and efficient production that CimatronE software facilitates. CimatronE provides NC programming solutions both for toolmaking and discrete part production. Various parts, programmed by CimatronE, will be cut on several 3-Axis and 5-Axis machines at the booths of machine tool builders BFW (Booth: A102, Hall: 1A), DMG (Booth: B103, Hall: 2A), SEC (Booth: A117, Hall: 2A) and Mitsubishi Electric (Booth: N102, Hall: 3A).

5-Axis Machining

BFW will display the cutting of an aerospace joystick on the BMV 5AX machine. CimatronE makes full use of 5-Axis technology, allowing for production of the complete part in one set-up with a high level of accuracy and an impressive polish-free surface quality.

Visitors to the BFW booth will also see a football trophy cut by the HMC 540 5AX machine and a blade for the aerospace engine industry created by the BMV 65 machine. CimatronE allows for the accurate production of the 100mm long blade with a maximum thickness of 3mm, without the use of a tailstock.

Visitors to the DMG booth will see the cutting of a hardened steel (57Hrc) dental implant using the Ultrasonic 20 5-Axis machine, programmed by CimatronE.

Toolmaking

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Examples of CimatronE 3-Axis programming capabilities for toolmaking will be on display at DMG (on the DMC 635 V eco Vertical Machining Center), BFW (on the BMV 35 machine), Mitsubishi Electric and SEC (with the K23-S machine). Parts of molds will be produced using 3-Axis machines, and are powerful examples of accuracy and high surface quality required for toolmaking.

With over 40,000 installations worldwide, Cimatron is a leading provider of CAD/CAM solutions for toolmaking and manufacturing. CimatronE's NC solutions include built-in CAD capabilities that help prepare the geometry for best machining results.

Cimatron NC 3-Axis and 3+2 positioning milling solution provides a toolpath for the milling of complex mold and die components, utilizing HSM technology with efficient rough operations that will reduce machining cycle time and elongate tooling & machine life by keeping constant chip load as much as possible. Finish toolpath operations will create superb surface quality to minimize the need for hand polish with the usage of toolpath extension, sharp edge milling and contour as touch points.

[Cimatron](#) NC 5-Axis Production supports continuous milling, providing full control over the tilt and lead angles as well as complete gouge and collision prevention. Touch-of-a-button 5-Axis tilting solution is especially suitable for parts with deep cavities, narrow ribs, and tight corners, allowing the use of shorter and more rigid tools for rapid machining and superb surface quality.

Cimatron's 5-Axis solution includes a rich set of solutions to streamline 5-Axis machining of common applications such as impellers, turbine blades, inlets, human implants, electrodes, and engraving. To simplify the integration of the application into the 5-Axis manufacturing environment, an extensive selection of post-processors is provided by Cimatron.

"We are very excited about partnering with leading machine tool builders." said Danny Haran, Cimatron's President and CEO. "Cimatron has worked in the Indian market for almost 20 years and intends to continue expanding its presence in this part of Asia. At the trade fair, visitors will see how CimatronE effectively programs some of the most advanced machines available. This will show that our software not only looks good on the computer screen, it also produces a stellar finished product."

About IMTEX

The 14th Indian Metal-Cutting Machine Tool Exhibition is taking place January 22-28 at the Bangalore International Exhibition Centre (BIEC). IMTEX fair, organized by Indian Machine Tool Manufacturers' Association (IMTMA), has been the single-most important international fair for showcasing the latest in metal working machine tools and manufacturing solutions as well as for trade promotion in South and South-East Asia for the last four decades. Additional details are available at <http://www.imtex.in/>.

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COADE and IOCS Asia Schedule Training Seminar on Pipe Stress Analysis and Surge Flow Prediction in Singapore Feb 16-21, 2009

23 January 2009

COADE announced that IOCS Asia, the company's dealer in Singapore, has scheduled a training seminar for February 16-21 on Pipe Stress Analysis and Surge Flow Prediction using COADE's CAESAR II and Flowmaster V7. The training seminar will be held at the Singapore Water Association facility.

Details on registering for the seminar are available at <http://www.iocsasia.com> or by emailing

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education@iocasia.com. COADE product information is available at <http://www.coade.com>.

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Delcam Crispin to Launch New CAD/CAM Software for Footwear at WSA

22 January 2009

Delcam Crispin has expanded its range of design and manufacturing software for the footwear industry. The new version will be launched in North America at the WSA show in Las Vegas, NV February 8-11th

Delcam provides a complete solution for the design and manufacture of both uppers and soles. With Delcam Crispin's new features the company expects to increase its dominance of this sector.

The newest product in the Crispin line is TechPac – a new 2D product to generate technical packages for footwear designers to supply to their manufacturing partners. TechPac allows designers to specify the manufacturing processes to be used and the sequences of operations to be followed at all stages of the production of the shoe. It will help ensure that the design is produced exactly as specified and to the required delivery schedules. The system is supplied with pre-defined templates to specify the flow of manufacturing data. These templates can be modified by the user to cover any specific requirements. 2D part geometry, models and images can be imported into the documentation from the range of Delcam Crispin design software. TechPac incorporates basic 2D engineering functionality from Delcam Crispin Engineer, plus comprehensive text functionality, with formatting options including font, color and scale, so that manufacturing companies can mark up the documents with any comments or queries on the suggested processes. For example, reference lines can be added onto the parts for operations like stitching, skiving and folding, together with images and text on the type of machine to be used. All of the documents can be provided as pdf or HTML reports so making it easy for everyone involved in the project to exchange data electronically.

The most important new update in design is the latest release of the 3D upper design module, ShoeDesign. ShoeDesign provides a comprehensive range of options to develop new designs, either based on an existing last or when creating a completely novel product. The software comes with a wide range of materials, textures and colors, while features like stitching, padding, eyelets and laces, can all be included to complete the design. The main focus of the new version has been on improving the ease of use, so making the software simpler for new users to learn and faster for experienced operators to use. The interface has been revised so reducing the number of icons on the screen at any one time. In addition, the cursor action has been improved to speed up drawing of style lines and selection of menus and icons. Handling of textures has also been improved. It has been made easier to edit existing textures, and to drag and drop textures from a texture library onto the various panels of the upper.

The new version of the LastMaker software for last design has also been made easier to use, both for the creation of standard lasts and for the development of customized designs. Improved creation and editing tools for cross sections have been added to allow more specific adjustment to the overall design. Similarly, profile line editing has been enhanced to make it easier to modify the outline shape of the last. Templates are available for the toe, back-curve and bottom sections of the last, so that these sections can be incorporated into the design more quickly and easily. Functionality has been added for comparing scanned foot data with an existing digital last, to help produce a custom-made pair of lasts. Control planes, based on standard foot measurements, have been included, making it simpler to adjust standard last shapes for a customized design.

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Developments have also been made to the base 2D Engineer package. The main new functionality allows Edge Templates to be appended to a part boundary, allowing dependant margins, makers, stabs and notches to be added after the boundary has been created. In addition, work has continued on many areas of 2D Engineer to make the software faster and easier to use.

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ESPRIT 2009 by DP Technology at Medical Device Puerto Rico 2009

20 January 2009

DP Technology's ESPRIT® 2009 computer-aided manufacturing (CAM) software will be exhibited at Medical Device Puerto Rico 2009, scheduled to take place Jan. 29-30 at the Puerto Rico Convention Center, in San Juan, Puerto Rico.

Considered a reliable source of “education, innovation, and collaborative opportunities in the field of high-tech precision medical device manufacturing,” Medical Device Puerto Rico 2009 is likewise a networking outlet for those involved in the design, manufacturing and packaging of medical devices and instruments.

ESPRIT 2009 will be exhibited at booth No. 224, where there will be opportunities for one-on-one demonstrations and presentations of the new features available within the latest generation of the product, which includes a significant number of new, innovative technologies in the areas of 3- and 5-axis milling, feature recognition and user interface, in addition to a long list of productivity-enhancing features for milling, turning and wire EDM part programming. ESPRIT 2009 is designed to run on both the Microsoft Windows XP and Microsoft Vista operating systems.

ESPRIT 2009 places a heavy emphasis on integrated machining, the use of milling and/or turning in any combination on any type of machine tool — Swiss-turn, mill-turn, B-axis machines, etc. Therefore, as with the 3- and 5-axis improvement listed above, most improvements to the software are to the benefit of all programmers.

Other new or upgraded features highlighted in the 2009 release include improvement to the following machining cycles: facing, open-pocket machining, slot milling, chamfer milling and thread milling.

Upgrades on display at Medical Device Puerto Rico and available within ESPRIT 2009 reduce the time required to produce part programs while increasing the quality of those programs and helping to reduce machining cycle times.

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Geomagic Announces Program for February Convergence 2009 Conference

20 January 2009

Geomagic has unveiled the initial conference program for Convergence 2009, which will showcase the widest range of innovative digital shape sampling and processing (DSSP) applications ever presented in one place. The annual Geomagic conference will be held February 24-26 in Savannah, Georgia, USA.

Highlights of the preliminary Convergence 2009 program announced today include:

- Rus Emerick of Schneider Electric on speeding time to market and return to market;
- Nancy Hairston of VanDuzen Archives on exposing a fraudulent Picasso;

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- Jason Rodgers of Keystone Dental on breakthroughs in dental implants;
- Scott Summit of Summit ID on user-centered design as featured on CNBC and The Discovery Channel;
- Keith Zanghi and Ed Shadle of North American Eagle on the quest to set a new land speed record;
- Beth Roscoe of Shriners Hospital for Children on revolutionary work in treating cleft lips and palates;
- Uwe Rossbacher of Autodesk/Alias on digital prototyping in industrial design;
- Michael Raphael of Direct Dimensions on the industry outlook for 3D scanning technologies.

Bo Burlingham, author of the best-selling book *Small Giants*, and Ping Fu, president and CEO of Geomagic, will be the keynote speakers at Convergence 2009. Burlingham will address the central theme of *Small Giants*: how innovative companies have pursued greatness over growth. Fu will share her vision of how emerging technologies will shape the future of global design and manufacturing.

Complementing the conference will be an exhibition of the latest 3D scanning technologies, demonstrations of new and emerging Geomagic products, and social events that provide the opportunity to network and learn in an informal environment.

Three Days, Three Dimensions

Convergence 2009 – with the theme “Three Days, Three Dimensions” – takes place at the Westin Savannah Harbor Golf Resort and Spa, a four-diamond facility that’s a short ferry ride away from culturally rich downtown Savannah.

Early-bird registration discounts are available until January 30, 2009 at <http://www.geomagic.com/Convergence2009/>. A limited number of corporate sponsorships are available as well.

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“International Seminar Cum Exposition on New Product Development Tools”

January 2009

Computer Aided Technologies namely PLM, CAD, CAM, RP & CAE are powerful and flexible tools for New Product Design and Development and aid quick problem solving more accurately by integrating analytical and simulation techniques. The development of a simulated prototype of a future system is highly effective for visualizing the system through it’s’ design and development phases and provide timely feedback to prevent field failures. Product Lifecycle Management (PLM) is necessary to create the corporate assets as well as to control engineering data in manufacturing sector.

After the last six successful programs where a large number of people participated representing companies from Automotive, Aero Space, Automotive Electronics, Light and Heavy Engineering in 2007 & 2008, CII - L M Thapar Centre For Competitiveness will be presenting the next International Seminar Cum Exposition in this series in 2009 as follows:-

Date / Venue

Apr 16-17, 2009 / Chennai

July 28-29, 2009 / Pune

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Sep 17-18, 2009 / Noida

Dec 15-16, 2009 / Hyderabad

The main objectives of the seminar are:

- a. To develop an understanding of the subject and application of Machine Tools, CNC Machining, PLM, CAD, CAM, RP & CAE and their impact on our way of working in the R&D, Electronics and engineering functions,
- b. To see prototyping applications through live models and case studies &
- c. To introduce participants to experts and practitioners who are leaders in implementing Computer Aided Technologies.

The Case study and demonstration sessions during the seminar will give insights into the potential of the tool and its' application for developing future products.

Designers, Engineers, Production and Manufacturing heads and people from academia who are interested in this subject should attend the Seminar.

For further details and registration, please contact:-

Samir K Chatterjee

Counselor,

CII - L M Thapar Centre For Competitiveness,

Confederation of Indian Industry,

Plot No. 249-F, Sector 18, Udyog Vihar, Phase IV, Gurgaon - 122 015, India

Tel : +91124 - 4013870 (D) 4014060-66 ext. 243

Fax : +91124 – 4014080 / 57

Mobile: +919871008137

e-mail:- samir.chatterjee@cii.in

Reema Shrivastava

CII - L M Thapar Centre For Competitiveness

Confederation of Indian Industry

249 F, Sector 18, Udyog Vihar, Phase IV, Gurgaon - 122 015, India

Tel: +91-124-4013870(D), 4014060-66(Ext: 231), Mobile 9910047001 Fax: :+91-124-4014057/80

Email: reema.shrivastava@cii.in

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Jaguar Land Rover and Abbott Vascular to Deliver Keynotes at 2009 SIMULIA Customer Conference

22 January 2009

Dassault Systèmes (DS) announced that keynote addresses from Jaguar Land Rover and Abbott

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Vascular will highlight the SIMULIA Customer Conference (SCC) being held May 19-21, 2009, in London, England.

Keynote speakers, Mark Stanton, Group Chief Engineer – Vehicle Engineering & Attributes for Jaguar Land Rover and Kelly Pike, Advisor – Research & Development for Abbott Vascular, will provide insight into how realistic simulation is being used by their respective companies to drive research and innovation, provide performance insight and help build better products in less time.

SIMULIA, Dassault Systèmes' brand for realistic simulation, is expanding their traditional Abaqus Users' Conference audience to include users of other SIMULIA products including Isight, Fiper, and SLM. The 2009 conference will feature presentations by engineers from more than 70 manufacturing and research organizations, including The Boeing Company, The Coca-Cola Company, Corus RD&T UK, Edwards Lifesciences, Foxconn International, General Motors, GN ReSound, Halliburton, Honda R&D, Kimberly-Clark Corporation, Rolls-Royce plc, Samsung Electronics, Tetra Pak, and many others.

“The 2009 SCC will showcase content from our customers, partners, and the SIMULIA team, focused on the latest technology advancements for unified FEA, multiphysics, design optimization, and simulation lifecycle management,” stated Ken Short, VP Strategy and Marketing, SIMULIA. “We are extremely pleased that Mark Stanton and Kelly Pike will join us to share their companies' experience in using realistic simulation to make a difference in how their products are developed to improve our everyday lives.”

Microsoft is the premiere sponsor of SCC 2009 and other exhibiting sponsors include: AVL, Beta CAE Systems, DatapointLabs, FE-Design GmbH, Granta Design Limited, HBM-nCode, Hewlett-Packard, Intel, Safe Technology Ltd, Simulayt Limited, and Zentech International Limited.

Early-bird registration for the SCC is now open, visit <http://www.simulia.com/scc2009>.

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Mastercam Showcasing Major New Developments at Westec 2009

January 2009

For CNC Software, Inc., Westec 2009 will feature the newest product in the Mastercam CAD/CAM software suite – Mastercam for SolidWorks, as well as Mastercam X3. Both will be showcased in booth # 3258 at the Los Angeles Convention Center in Los Angeles, CA, March 30 – April 2.

Mastercam for SolidWorks

[Mastercam](#) for SolidWorks is fully integrated CAM that runs seamlessly in SolidWorks. SolidWorks users can now program their parts directly within SolidWorks using Mastercam's toolpaths and machining strategies.

Mastercam for SolidWorks includes a suite of cutting strategies, including Feature Based Machining (FBM) and 3D High Speed Machining toolpaths. High speed machining promotes longer tool life, faster machining time, and precision cutting by creating smooth cuts that eliminate dangerous sharp moves. Mastercam for SolidWorks also delivers a powerful set of automated cleanup toolpaths, letting you get parts off the machine faster and with little or no handwork.

Feature Based Machining (FBM)

Almost every shop deals with solid models, and Mastercam delivers a powerful way to automatically

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mill and drill these parts. Valuable for experienced power users and easy enough for new users, FBM evaluates a part's features and automatically designs an effective machining strategy.

The time savings when using Mastercam FBM are dramatic, but its power isn't just in the click-and-go ease. All toolpaths are fully associative and editable after creation. This gives you the broad flexibility to make changes at any time, and ensures that your parts will be cut exactly as you want them.

Other X3 Enhancements

- High Speed 2D Machining – high speed machining has traditionally been available in the Mastercam 3D machining suite. Now you can have the benefits of high speed machining in your 2D work.
- Upgraded Multiaxis Machining features, including speed improvements.
- Engraving now standard with Mastercam X3.
- Updated translators, and much more.

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Financial News

Geometric's Q3 Operating Revenues Increase 31.6%

19 January 2009

Geometric Limited announced the Company's financial results for the quarter ending December 31, 2008. The company's operating revenues increased 31.6% y-o-y and 6.9% sequentially to Rs.1,630.78 Mn (USD 33.31 Mn).

The operating profits of the company more than tripled to Rs.242.00 Mn as compared to operating profits of Rs.75.59 Mn in Q3 FY08. In sequential terms, the operating profits increased 76.7% from Rs.136.46 Mn in Q2FY09.

The Company reported a decline in PAT (before prior period adjustments) from Rs.47.16 Mn to Rs.18.27 Mn sequentially on account of foreign exchange losses of Rs.189.32 Mn, including a provision on Rs.21.97 Mn towards possible future currency losses.

Commenting on the results, Dr. Ravi Gopinath, Managing Director and CEO of Geometric Limited, said, "The external environment, particularly the global manufacturing sector, continues to pose challenges. While we ride this period out, we have focused our efforts on improving operating efficiencies. This has manifested itself in improvements in contribution and SG&A, resulting in operating profit improvements, beyond those realized from a favorable exchange rate."

Business Highlights

Added 7 new customers during Q3, taking the total number of active customers to 123. Total value of new business closed in Q3 was USD 5.4 Mn. Some of the significant contracts are with:

- A global medical equipment vendor for outsourced product development. This is the second significant addition to the list of customers in the medical imaging space
- A leading US company in agricultural and construction equipment for providing manufacturing engineering services

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- A global automotive Tier I manufacturer for eDrawings product. eDrawings will be adapted by the customer as their default light weight viewer globally
- A leading European high-tech company for product development • One of the world's leading tire companies for PLM implementation and support in Europe
- A major PLM product vendor. This is the company's first product development deal in China.

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IBM Reports 2008 Fourth-Quarter and Full-Year Results

20 January 2009

Full-Year 2008:

Record revenue of \$103.6 billion;

Record pre-tax profit of \$16.7 billion;

Record earnings per share of \$8.93;

Record free cash flow of \$14.3 billion, up \$1.9 billion, excluding Global Financing receivables.

Full-Year 2009:

Earnings-per-share expectation of at least \$9.20.

Fourth-Quarter 2008:

Diluted earnings of \$3.28 per share, up 17 percent;

Net income of \$4.4 billion, up 12 percent;

Gross profit margin of 47.9 percent, up 3 points;

Revenue of \$27.0 billion, impacted by strong U.S. dollar, down 6 percent, down 1 percent adjusting for currency;

Software revenues up 3 percent, up 9 percent adjusting for currency; pre-tax income up 15 percent;

Global Technology Services revenue down 4 percent, up 3 percent adjusting for currency; pre-tax income up 35 percent;

Global Business Services revenues down 5 percent, flat adjusting for currency; pre-tax income up 26 percent;

Services signings of \$17.2 billion, 24 deals greater than \$100 million;

Strategic outsourcing signings up 20 percent worldwide, up 44 percent in North America.

IBM announced fourth-quarter 2008 diluted earnings of \$3.28 per share from continuing operations compared with diluted earnings of \$2.80 per share in the fourth quarter of 2007, an increase of 17 percent as reported. Fourth-quarter income from continuing operations was \$4.4 billion compared with \$4.0 billion in the fourth quarter of 2007, an increase of 12 percent. Total revenues for the fourth quarter of 2008 of \$27.0 billion decreased 6 percent (1 percent, adjusting for currency) from the fourth quarter of 2007.

"A strong fourth quarter capped an outstanding year. In 2008 IBM performed well in an extremely

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difficult economic environment. Clearly our strategic transformation --- migrating to the more profitable segments of the industry, investing in growth regions of the world, and driving productivity through global integration --- is continuing to pay dividends," said Samuel J. Palmisano, IBM chairman, president and chief executive officer.

"With our strong financial position, solid recurring revenue and profit streams and global reach, we are confident about 2009 and, based on our 2008 performance, we are ahead of pace on our roadmap for \$10 to \$11 per share."

IBM said that it expects full-year 2009 earnings of at least \$9.20 per share.

From a geographic perspective, the Americas' fourth-quarter revenues were \$11.5 billion, a decrease of 2 percent (up 2 percent, adjusting for currency) from the 2007 period. Revenues from Europe/Middle East/Africa were \$9.5 billion, down 12 percent (1 percent, adjusting for currency). Asia-Pacific revenues decreased 1 percent (1 percent, adjusting for currency) to \$5.5 billion. OEM revenues were \$615 million, down 31 percent compared with the 2007 fourth quarter. Revenues from the company's growth markets organization decreased 7 percent (up 6 percent, adjusting for currency) and represented 18 percent of geographic revenues.

Total Global Services revenues decreased 4 percent (up 2 percent, adjusting for currency). Global Technology Services segment revenues decreased 4 percent (up 3 percent, adjusting for currency) to \$9.6 billion. Global Business Services segment revenues decreased 5 percent (flat, adjusting for currency) to \$4.7 billion. IBM signed services contracts totaling \$17.2 billion, at actual rates, a decrease of 5 percent (\$15.6 billion, adjusting for currency, up 2 percent), including 24 contracts greater than \$100 million. Short-term signings were \$7.3 billion, a decrease of 7 percent at actual rates (1 percent to \$6.6 billion, adjusting for currency). Long-term signings decreased 3 percent, at actual rates, to \$9.9 billion (up 3 percent to \$9.0 billion, adjusting for currency). The estimated services backlog at December 31 was \$117 billion, adjusting for currency.

Revenues from the Software segment were \$6.4 billion, an increase of 3 percent (9 percent, adjusting for currency) compared with the fourth quarter of 2007; pre-tax income increased 15 percent. Revenues from IBM's middleware products, which primarily include WebSphere, Information Management, Tivoli, Lotus and Rational products, were \$5.2 billion, up 4 percent versus the fourth quarter of 2007. Operating systems revenues of \$622 million decreased 6 percent compared with the prior-year quarter.

For the WebSphere family of software products, which facilitate customers' ability to manage a wide variety of business processes using open standards to interconnect applications, data and operating systems, revenues decreased 1 percent. Revenues from Information Management software, which enables clients to leverage information on demand, increased 18 percent. Revenues from Tivoli software, infrastructure software that enables clients to centrally manage networks including security and storage capability, decreased 4 percent, and revenues from Lotus software, which allows collaborating and messaging by clients in real-time communication and knowledge management, was flat year over year. Revenues from Rational software, integrated tools to improve the processes of software development, decreased 1 percent compared with the year-ago quarter.

Revenues from the Systems and Technology segment totaled \$5.4 billion for the quarter, down 20 percent (16 percent, adjusting for currency). Systems revenues decreased 18 percent (14 percent, adjusting for currency). Revenues from the converged System p server products increased 8 percent compared with the 2007 period. Revenues from System z mainframe server products decreased 6 percent compared with the year- ago period. Total delivery of System z computing power, which is

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measured in MIPS (millions of instructions per second), increased 12 percent. Revenues from the System x servers decreased 32 percent, and revenues from the legacy System i servers decreased 92 percent. Revenues from System Storage decreased 20 percent, and revenues from Retail Store Solutions decreased 28 percent. Revenues from Microelectronics OEM decreased 34 percent.

Global Financing segment revenues decreased 1 percent (up 5 percent, adjusting for currency) in the fourth quarter to \$660 million.

The company's total gross profit margin was 47.9 percent in the 2008 fourth quarter compared with 44.9 percent in the 2007 period, led by strong performance in both services segments.

Total expense and other income decreased 5 percent to \$7.1 billion compared with the prior-year period. Adjusting for currency and estimated acquisitions impacts, total expense and other income decreased 2 percent year over year. SG&A expense decreased 3 percent to \$5.8 billion. RD&E expense of \$1.5 billion decreased 4 percent compared with the year-ago period. Intellectual property and custom development income increased to \$328 million compared with \$236 million a year ago. Other (income) and expense was income of \$97 million, down \$1 million from a year ago. Interest expense decreased to \$192 million compared with \$214 million in the prior year.

IBM's tax rate in the fourth-quarter 2008 was 23.8 percent compared with 28.0 percent in the fourth quarter of 2007, a decline of 4.2 points due primarily to the utilization of tax credits, including the retroactive benefit of the recently-enacted U.S. research tax credit. The full-year 2008 tax rate was 26.2 percent, and IBM expects its full-year 2009 tax rate to be sustained at approximately 26.5 percent.

The weighted-average number of diluted common shares outstanding in the fourth-quarter 2008 was 1.35 billion compared with 1.41 billion shares in the same period of 2007.

Full-Year 2008 Results

Diluted earnings of \$8.93 per share, up 24 percent as reported;

Total revenues of \$103.6 billion, up 5 percent, 2 percent adjusting for currency;

Global Technology Services revenues up 9 percent, 6 percent adjusting for currency; pre-tax income up 30 percent;

Global Business Services revenues up 9 percent, 5 percent adjusting for currency; pre-tax income up 30 percent;

Software revenues up 11 percent, 8 percent adjusting for currency; pre-tax income up 18 percent.

Income from continuing operations for the year ended December 31, 2008 was \$12.3 billion compared with \$10.4 billion in the year-ago period, an increase of 18 percent. Diluted earnings were \$8.93 per share compared with \$7.18 per diluted share in 2007, an increase of 24 percent. Revenues from continuing operations for 2008 totaled \$103.6 billion, an increase of 5 percent (2 percent, adjusting for currency), compared with \$98.8 billion in 2007.

From a geographic perspective, the America's full-year revenues were \$42.8 billion, an increase of 4 percent as reported (4 percent, adjusting for currency) from the 2007 period. Revenues from Europe/Middle East/Africa were \$37.0 billion, an increase of 7 percent (3 percent, adjusting for currency). Asia-Pacific revenues increased 8 percent (2 percent, adjusting for currency) to \$21.1 billion. OEM revenues were \$2.7 billion, down 22 percent compared with 2007. Revenues from the company's growth markets organization increased 10 percent (10 percent, adjusting for currency) and represented 18 percent of geographic revenues.

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Revenues from the Global Technology Services segment totaled \$39.3 billion, an increase of 9 percent (6 percent, adjusting for currency) compared with 2007. Revenues from the Global Business Services segment were \$19.6 billion, up 9 percent (5 percent, adjusting for currency). Total services signings were \$57.2 billion. Software segment revenues in 2008 totaled \$22.1 billion, an increase of 11 percent (8 percent, adjusting for currency). Systems and Technology segment revenues were \$19.3 billion, a decrease of 10 percent (11 percent, adjusting for currency). Global Financing segment revenues totaled \$2.6 billion, an increase of 2 percent (essentially flat, adjusting for currency).

IBM ended 2008 with \$12.9 billion of cash on hand and generated free cash flow of \$14.3 billion, up \$1.9 billion year over year, excluding Global Financing receivables. The balance sheet remains strong, and the company is well positioned to take advantage of opportunities.

Shares repurchased totaled approximately \$10.6 billion on a cash-paid basis in 2008. The weighted-average number of diluted common shares outstanding in 2008 was 1.38 billion compared with 1.45 billion shares in 2007. As of December 31, 2008, there were 1.34 billion basic common shares outstanding.

Debt, including Global Financing, totaled \$33.9 billion, compared with \$35.3 billion at year-end 2007. From a management segment view, Global Financing debt totaled \$24.4 billion versus \$24.5 billion at year-end 2007, resulting in a debt-to-equity ratio of 7.0 to 1. Non-global financing debt totaled \$9.6 billion, a decrease of \$1.2 billion since year-end 2007. This decrease coupled with a non-cash adjustment related to year-end pension remeasurements, which is reflected as a reduction in stockholders' equity, resulted in a debt-to-capitalization ratio of 49.0 percent as compared to 30.0 percent at year-end 2007.

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 -

adjusting for free cash flow;

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

adjusting for estimated acquisitions impacts.

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 <http://www.ibm.com/investor> and are being included in Attachment II ("Non-GAAP Supplementary Materials") to the Form 8-K that includes this press release and is being submitted today to the SEC.

Conference Call and Webcast

IBM's regular quarterly earnings conference call is scheduled to begin at 4:30 p.m. EST, today. Investors may participate by viewing the Webcast at <http://www.ibm.com/investor/4q08>. Presentation charts will be available on the Web site prior to the Webcast.

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Implementation Investments

Agilent Technologies' GoldenGate Tool Now Supported as Part of STMicroelectronics' 65nm RF Design Platform

21 January 2009

Agilent Technologies announced support for Agilent's GoldenGate RFIC simulation, analysis and verification tools as part of STMicroelectronics' (ST) 65nm Design Platform. The qualification of GoldenGate for ST's 65nm RF technology is part of a long-term collaboration between the two companies to accelerate customers' RF IP development time.

"The support of GoldenGate in ST's 65nm Design Platform allows our customers and our internal RF designers to use the best-in class simulation engine for RFIC design and verification," said Jean-Paul Morin, CAD manager, Technology R&D, ST. "RFICs at advanced process nodes are very complex, and time to market can be significantly impacted without the right strategy for design and verification. We see GoldenGate as a cornerstone of this methodology for the mutual benefit of ST and its customers."

ST's 65nm RF Design Platform allows designers to develop high-performance system-on-chip products for low-power, wireless, networking, consumer and high-speed applications. It is fully supported by the industry's leading CAD tools from Agilent and other leading EDA vendors.

"The long-standing relationship with STMicroelectronics has met many milestones for RFIC design in adopting Agilent's EDA platforms and tools for RFIC design, including our RF Design Environment and Momentum EM simulator," said Thierry Locquette, Global EDA account manager with Agilent's [EEsof EDA](#) division. "I am pleased that we have reached yet another milestone with the adoption of GoldenGate for RF simulation and advanced verification, proving that our next generation of RFIC tools continues to meet the company's high standards."

About GoldenGate

Agilent's GoldenGate software is an advanced simulation and analysis solution for integrated mixed signal RFIC designs.

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Alps Electric Selects Berkeley Design Automation Analog FastSPICE and Noise Analysis Option

21 January 2009

[Berkeley Design Automation Inc.](#) announced that Alps Electric Co. Ltd., a leading global manufacturer of electronics devices and sensors for automobiles, PCs, cellular phones, audio, and home appliances, has selected the company's Analog FastSPICE" circuit simulator and Noise Analysis Option" for characterization and performance simulation of its advanced electronic devices.

"At Alps Electric we make careful decisions to upgrade our design flow with next-generation tools that extend our competitive advantage, compress our design cycle, and help us continue to deliver high quality designs to our customers," said Mr. Keisho Miyazaki, Group Manager, Alps Electric Co. Ltd. "Our products require true SPICE accuracy and accurate transistor-level noise analysis prior to fabrication. Analog FastSPICE easily delivered identical waveforms to our traditional SPICE simulator 5x-10x faster. The Noise Analysis Option enables us to accurately analyze the noise specifications of our circuits including the impact of device noise with excellent silicon correlation."

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Berkeley Design Automation tools include Analog FastSPICE" circuit simulation, Noise Analysis Option" device noise analyzer, RF FastSPICE" periodic analyzer, and PLL Noise Analyzer". The company guarantees identical waveforms to the leading "golden" SPICE simulators down to noise floor (typically 0.1% or less) while delivering 5x-10x higher performance and 5x-10x higher capacity. It achieves this by using advanced algorithms and numerical analysis techniques to rapidly solve the full-circuit matrix and the original device equations without any shortcuts that could compromise accuracy.

Design teams from top-10 semiconductor companies to leading startups use Berkeley Design Automation tools to solve big analog/RF verification problems. Typical applications include complex-block characterization (e.g., PLLs, ADCs, DC:DC converters, PHYs, Tx/Rx chains) and full-circuit performance simulation (e.g., wireless transceivers, wireline transceivers, high-speed I/O macros, memories, microcontrollers, data converters, and power converters).

"We are delighted that Alps Electric, a leading global supplier of precision electronic devices and sensors, has selected Berkeley Design Automation," said Ravi Subramanian, president and CEO of Berkeley Design Automation. "Alps Electric's selection of both Analog FastSPICE and Noise Analysis Option further reinforces the unique, strong, and compelling advantage our technology provides over today's other SPICE solutions. We are proud to help Alps Electric extend their competitive advantage and continue to deliver innovative high-quality products.?"

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Felder Accelerates Design of Woodworking Machines with SolidWorks Software and 3DVIA Composer

20 January 2009

Austrian Felder KG, a manufacturer of woodworking machines and tools, has chosen 3DVIA Composer as its documentation solution, Dassault Systèmes SolidWorks Corp. (DS SolidWorks) announced. Felder, which has used SolidWorks® 3D CAD software for seven years, is now deploying 3DVIA Composer to create and edit assembly documentation, generate exploded drawings of SolidWorks assemblies, and develop bills of material for assembly purposes. Thanks to SolidWorks and 3DVIA Composer, Felder remains competitive in a woodworking machine market facing intense price pressure. Since Felder switched from 2D to 3D CAD software in 2001, it has shortened design processes by up to 30 percent. In addition, SolidWorks and 3DVIA Composer save the company material and components, delivering designs that are optimized for assembly.

Headquartered in Hall, Tyrol, the family-owned business manufactures woodworking machines and tools for a wide range of do-it-yourself enthusiasts, small woodworking companies, large carpentries, and industrial enterprises. Its globally marketed brands include FELDER, FORMAT-4, and HAMMER.

"Aesthetics, short design processes, and high-quality products are very important to us," said Engineer Robert Tratter, development manager at [Felder KG](#). "SolidWorks is a reliable partner in all these areas. When the SolidWorks partner [planetsoftware](#) drew our attention to 3DVIA Composer, our previously installed documentation solution didn't have a chance, because it was an isolated application. 3DVIA Composer allows us to create and edit assembly documentation directly within SolidWorks. The tight compatibility is a huge benefit that gives us both direct and precise data transfers and accelerated design workflows."

[SolidWorks](#) and 3DVIA Composer software have enabled Felder to establish a seamless design process and create a wide range of valuable drawing/model derivatives, including bills of material, spare parts

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lists, design review documents, and the 3D data for CAM systems and 3D measuring machines.

The improved visualization and the option to create virtual prototypes has considerably reduced the error rate in the design process, according to Tratter. Another advantage is the design of configurations. "Each component needs just one data file that can be used in many different assemblies," Tratter said. "This eases the modification and maintenance of the entire range of products."

Felder's customers benefit from clearly and intuitively arranged repair and service instructions as well as from photorealistic renderings and animations that explain the use of machines and tools.

"Felder fully benefits from the interaction between SolidWorks and 3DVIA Composer," said Axel Spitzer, regional sales manager, central European countries, at DS SolidWorks. "Its customers are looking for high-precision machines and tools at competitive prices, which require design and documentation tools that shorten design cycles and optimize manufacturing processes. SolidWorks and 3DVIA Composer meet these requirements — today and tomorrow."

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Freescale Japan Adopts Cadence Low-Power Solution To Develop Advanced Power Management Chip

20 January 2009

Cadence Design Systems, Inc. announced that Freescale Semiconductor Japan used the [Cadence® Low-Power Solution](#) to design, verify, and tape out a multi-channel power management IC for portable digital audio/video products such as digital still cameras. Using the Cadence Low-Power Solution, Freescale achieved a significant power savings for the device and a 20 percent reduction in design time.

"In today's advanced portable product market, power consumption is both a priority and a challenge," said Kimio Ueda, Ph.D., General Manager of Sendai Design Research and Development Center at Freescale Semiconductor Japan. "Usually, that would translate into longer design times. The highly integrated Cadence Low-Power Solution helps us to quickly and effectively create more power-efficient designs, which provide huge benefits to our customers."

The complex power management device is built on Freescale's mixed-signal SMARTMOS™ technology and is capable of managing multiple power modes. Freescale used the CPF-enabled Cadence Low-Power Solution as a comprehensive design flow to design the multiple supply voltages and power shutoff capabilities in the chip, resulting in a small, fast and cool device.

The [Incisive® Enterprise Simulator](#) in the integrated design flow allowed Freescale to achieve fast verification of the power domains for quick, accurate design. Cadence Encounter® RTL Compiler and Encounter Digital Implementation System provided automated power domain handling capabilities for reduced power consumption using the MSV and PSO techniques.

"The CPF-enabled Cadence Low-Power Solution has been demonstrated yet again to be a mature and production-ready low-power solution," said Steve Carlson, vice president of Low-Power Solutions at Cadence. "The power management IC tapeout experience at Freescale Semiconductor clearly illustrates that the Low-Power Solution delivers the capability to quickly create small and fast designs that consume a small amount of power."

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Gautrain Rapid Rail Link Meets Demanding Requirements With Bentley's ProjectWise Collaboration System

21 January 2009

The [Gautrain Rapid Rail Link](#) in South Africa won a 2008 Be Award of Excellence in the "Innovation in Rail and Transit" category. The award was presented for the new rapid railway that links Pretoria, in Tshwane, with Johannesburg and also links Sandton with the ORTIA International Airport in South Africa. The project is featured in the new publication "The Year in Infrastructure 2008," available online from Bentley Systems at <http://www.bentley.com/YearInInfrastructure2008> The Gautrain Rapid Rail Link's primary goals are to enhance and support economic growth and generate employment in the region. Trains on the new railway will travel at 100 miles per hour along approximately 50 miles of rail route. Ultimately, with upgrades, the trains will be able to transport more than 60,000 passengers per hour and, thereby, reduce the number of cars on parallel roads by 20 percent. The project offers a cost-effective, efficient, environmentally friendly, and safe answer to some of the worst transport and road traffic problems in the most densely developed area in Gauteng province – the economic engine of Southern Africa. Through its use of Bentley's ProjectWise collaboration system, the Gautrain team is effectively managing this complex design-build-operate, maintain-transfer public-private partnership project to successful completion.

The project involves a team of 350 specialists and experts working locally at various offices as well as a number of international experts. ProjectWise allows the entire Gautrain team to find, control, transmit, collaboratively review, and report project data, and enables workflows that ensure quality control as part of the ISO quality system. Streamlining this process through its use of ProjectWise gave Gautrain the means to keep the project on track.

Johan Venter, project and administration manager at Gautrain Rapid Rail Link, said, "An army marches on its belly. A concession contract marches on its integrated documentation and its ability to manage and find documents."

He continued, "In this case, the full tender and procurement process and all initial designs and collaboration were done with ProjectWise. Without a collaboration system such as this, we would not have been able to complete the project in the required time frame. It is an essential component of the project management and control system for a large project."

For additional information about the ProjectWise collaboration system, visit <http://www.bentley.com/projectwise>.

For information about how to enter projects for consideration in the 2009 Be Awards of Excellence competition, visit <http://www.bentley.com/BeAwards>.

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Geometric SAS, France Adds HyperWorks Suite to Their Set of Preferred CAE Tools

22 January 2009

Altair Engineering announced that Geometric SAS, headquartered in India with a mechanical engineering services group based in France, has added the HyperWorks platform to their preferred set of CAE tools. HyperWorks will be used to provide finite element (FE), optimization, and modeling services to all of Geometric SAS European customers, especially in the automotive industry.

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“After an intensive evaluation period, we began using HyperWorks in the spring of this year. I have to say that all of our expectations in the area of modeling and optimization have been met,” reported Jean-Denis Garcin, Group Leader, Geometric SAS. “HyperWorks is extremely efficient, user-friendly and offers the open architecture we need to communicate with our customers and other Geometric offices. In addition, it offers a very good cost/performance ratio. HyperMesh in particular allows us to create FE models faster than we could with any other tool.”

"We are pleased that Geometric SAS has quickly realized business benefits with their selection of HyperWorks," said Mauro Guglielminotti, Managing Director, Altair Engineering in France. "The value of the HyperWorks business model, its broad application scope, and open-architecture design enables engineering service companies, like Geometric, to more easily address the varied engineering requirements that are inherent with organizations that have diverse client bases."

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HW Lochner Effectively Communicates Vision for Fort Drum Connector Project Using Bentley Software

20 January 2009

[HW Lochner, Inc.](#) won a 2008 Be Award of Excellence in the “Communicating Through Visualization” category for its Fort Drum Connector project. The project is featured in the new publication “The Year in Infrastructure 2008,” available online from Bentley Systems at <http://www.bentley.com/YearInInfrastructure2008>. The \$78 million Fort Drum Connector project consists of designing a four-lane connection from Interstate 81 to Fort Drum, N.Y., for the New York State Department of Transportation (NYSDOT). The new highway will serve as an Interstate facility and enhance the strategic viability of the U.S. Army base. Successful completion of the project relied on Lochner’s ability to show NYSDOT and the community how three proposals would impact the surrounding area and connect with a complex interchange at US Route 11, west of the Fort Drum Gate. By deploying Bentley’s InRoads and ProjectWise software, the design team efficiently and effectively collaborated on, prepared, and communicated three proposals for NYSDOT and the community in an easy-to-understand fashion. This accelerated the approval process and moved this significant project forward.

“The interoperable capabilities of Bentley software allowed us to work with NYSDOT as if we were in the same office, and that was the key to our success,” said Mark Pawlick, vice president at HW Lochner, Inc.

Pawlick continued, “We used aerial photos with MicroStation design files to show how the new connector greatly enhances an area where roads do not exist. This saved untold man-hours and allowed our client and the public to quickly choose a design that best suits their needs.”

For additional information about InRoads, visit <http://www.bentley.com/inroads>. For additional information about the ProjectWise collaboration system, visit <http://www.bentley.com/projectwise>.

For information about how to enter projects for consideration in the 2009 Be Awards of Excellence competition, visit <http://www.bentley.com/BeAwards>.

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Intrinsity Standardizes On Magma's Talus IC Implementation Flow for High-Speed, Low-Power

Processor Cores

22 January 2009

[Magma Design Automation Inc.](#) announced that Intrinsicity, a provider of high-speed, low power processors based on its proprietary Fast14® fast static and 1-of-N Domino Logic (NDL®) Technology, has standardized on Talus®, Magma's complete RTL-to-GDSII platform, for implementation of the static ASIC portion of Intrinsicity's IC design flow.

Intrinsicity's decision to standardize on Talus was based on results achieved using the Magma software to develop Intrinsicity's latest design based on combined static and NDL technology. Talus Design's RTL synthesis, Talus Vortex's place & route capabilities and Intrinsicity's Fast14 design technology enabled Intrinsicity to double the frequency and take the design from final RTL to GDSII in just 48 hours. In addition, Talus Power Pro's ability to efficiently handle multiple voltage threshold (multi-VT) libraries resulted in a significant power reduction. The software also allowed Intrinsicity to deliver the high-performance processor design with a significantly smaller team than is usually required using traditional approaches.

"Intrinsicity is focused on enabling semiconductor companies to meet ever-increasing processing requirements of today's mobile, networking, storage and other high-speed embedded applications," said David Shippy, Vice President of Processor Engineering at Intrinsicity. "The Talus system's advanced IC implementation technology helps us to continue to increase performance and reduce the power, area and development cycle of processor designs based on our ground-breaking Fast14 Technology."

"Based on the industry's only unified data model, Talus concurrently and automatically optimizes for timing, area and power, reducing iterations and increasing designer productivity. The unique system architecture coupled with a powerful interface also provides designers with the flexibility to fine-tune the optimization to ensure that parameters are met and the best possible performance is achieved," said Kevin Moynihan, general manager of Magma's Design Implementation Business Unit. "Intrinsicity's ability to double the frequency and complete the flow in two days demonstrates why Talus is the ideal tool for high-speed, high-performance designs."

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John T. Essberger uses AVEVA Software to Support New-Building Projects in Turkish and Chinese Shipyards

21 January 2009

AVEVA announced that the well known Hamburg ship owner John T. Essberger has become AVEVA's most recent customer in Germany. They are taking delivery of the AVEVA marine solutions software to help monitor the design and construction of new vessels at shipyards in Turkey and China.

Both shipyards, have agreed to regularly supply the owner in Hamburg with a copy of the database for the 3D computer model of the ships currently being designed. Using the software products from AVEVA, users at John T. Essberger can access the database and navigate through the structure and outfitting. As well as viewing existing shipyard drawings they also have the possibility to create their own 3D views or 2D cross-sections through the model, and add dimensions and notations as required.

The Turkish Eregli Shipyard is one of the biggest in Turkey, employing over 2,000 people. Currently four vessels are being designed and built for the Essberger tanker fleet: namely an 8,400 IMO Type II oil tanker and three 1 A ice class tankers with a gross tonnage of 5,300 DWT. The shipyard has used

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AVEVA's shipbuilding system since its opening in June 2006. The design of the Essberger tankers is provided by Merchant Solutions of Rolls-Royce Marine AS - Norway, and the detail engineering by Rolls-Royce subsidiary company in Croatia - Navis Consult. AVEVA's software was used for detail engineering of hull and outfitting.

Thomas David, Manager of Newbuildings at John T. Essberger, explains the business motive for installing the AVEVA software. "With the possibility to view and interrogate the 3D computer model of our vessels, we can more easily identify problems at an early stage. Access to the electronic drawings in the AVEVA database saves us substantial time and cost in printing and sending drawings between the different office locations".

Helmut Schuller, Managing Director, AVEVA DACH said "John T. Essberger GmbH now joins a growing list of ship owners and ship operators using AVEVA software to monitor the design and construction of their vessels at shipyards around the world. AVEVA is looking forward to further strengthening our relationship with John T. Essberger GmbH."

The AVEVA software will be used in John T. Essberger's main office in Hamburg, in the company's subsidiary office in Dordrecht in the Netherlands; at the site office at the Turkish shipyard and, in 2009, in the site office in China.

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Leading Engineering Services & Consultancy, Assystem UK, Selects Altair HyperWorks for Gas Turbine Design

20 January 2009

[Altair Engineering, Inc.](#) announced that the UK Gas Turbine Division of Assystem, a leading engineering services and consultancy provider, has selected Altair HyperWorks to be included in future engineering service projects. [Assystem](#) will use HyperWorks and especially HyperMesh, the advanced finite element analysis (FEA) meshing solution of the product suite, to complement existing analysis software in order to support service and consultancy projects within the gas turbine industry. Since the recent acquisition of HyperMesh, Assystem has already realised benefits including substantial improvements in mesh generation leading to better results for their customers.

"I have had the chance to work with many different meshing tools during my professional career," said Phil Baker, Projects & Analysis Manager at Assystem. "I have to say, that none of them have shown the robustness and flexibility that HyperMesh has demonstrated. We are continually looking to improve our service offering and a key factor in this process is the selection of proven analysis tools. HyperMesh has a very good reputation in the industry, so we trained our engineers at Altair and then evaluated HyperMesh on some of our projects. HyperMesh is very robust, offers flexible geometry manipulation, is 64-bit compatible and has an open platform to be used with any solver our customers request us to work with. It offers us the flexibility, reliability and efficiencies we need to meet our customers' requirements and stay ahead of our competitors."

"We are working in a very competitive industry in which timescales are critical, HyperMesh is giving us the competitive business edge we need," added Kaushil Solanki, Senior Engineer, Assystem UK.

"We are very pleased to see Assystem implementing HyperMesh into their development processes," said Maurice Linscott, Regional Director, Altair Engineering, UK. "Our tools offer service companies the flexibility they need because they provide an open architecture, offer quick return times and a good

return on investment. I expect to see more and more service and consultancy companies in the UK turning to HyperWorks thanks to the business benefits the product suite offers."

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Magna Powertrain Doubles Testing Productivity with LMS Test.Lab

19 January 2009

LMS , announced that automotive supplier Magna Powertrain has successfully deployed LMS Test.Lab and is experiencing productivity gains of up to 50%. Magna Powertrain uses the LMS systems to optimize the NVH performance of powertrains and drivelines it designs and manufactures for cars, trucks, SUVs and other vehicles.

Based in St. Valentin, Austria, the company uses the advanced testing technology in developing components and integrating complete systems into vehicle designs for major automotive manufacturers including BMW, DaimlerChrysler, Ford, General Motors, Porsche, Renault, Volkswagen, Nissan, Honda, Toyota and others. The firm is a subsidiary of Magna International, the world's largest brand-independent engineering and manufacturing supplier in the automotive industry.

The NVH system implemented at Magna Powertrain consists of the LMS Test Lab software suite and multiple LMS SCADAS Mobile front-end units, each with 40 data acquisition channels and versatile signal-conditioning capabilities. The lightweight, laptop-size units are easily transported and can be quickly set up on the front passenger seat of a vehicle with the help of test-scenario templates and convenient transducer verification/calibration.

A single operator driving the test vehicle readily conducts the test via convenient remote controls and real-time monitoring capabilities that provide results as tests are being run. The user interface of LMS Test.Lab has been specially tuned for mobile testing applications. Large displays show key parameters and analysis curves, so the operator sees at a glance the progress of the test and the validity of data being acquired. Magna testing teams use the systems for in-vehicle testing at customer sites, as well as for testing full vehicles and drivetrains in the lab during product development.

Andreas Wieser, Department Manager of Acoustics and Vibration at the Magna Powertrain Engineering Center, explains that real-time capabilities of the LMS system are especially useful in increasing testing efficiency. "In the past, most of our engineers' time was spent behind a desk number-crunching raw data and performing calculations to find the root cause of NVH problems. If the data was inconclusive, more tests had to be run. Then more time was spent writing reports to document the results," says Wieser.

"LMS Test.Lab streamlines this entire process from start to finish and eliminates many of these iteration and rework bottlenecks," Wieser explains. "Measurements are validated on the spot, and results are available immediately with on-line plots such as waterfall diagrams and color maps. Real-time feedback provides valuable insight into the root cause of problems and allows a quick response after tests are run. More detailed studies such as transfer path analysis and noise contribution analysis can also be quickly performed directly after testing. This is an important time gain and enables us to provide customers with impressive state-of-the-art engineering on-site."

Report generation capabilities in the LMS system add up to more time savings, according to Wieser. Management of data is straightforward, so engineers can easily access key results. Plots, curves and other output can be conveniently copied and pasted into Microsoft Word or PowerPoint with no data conversion required. "The LMS Active Pictures capability is a tremendously powerful tool for engineers

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to convey test results clearly and quickly, enabling anyone opening the report file to animate, magnify, or otherwise manipulate live test data without the need to have LMS Test.Lab on their system,” he says.

Wieser explains that easy mobility, real-time feedback, advanced data analysis features and convenient report generation capabilities have enabled the department to significantly compress the NVH testing cycle, from initial setup to preparation of the final report. “The LMS SCADAS Mobile system is small and smart, which makes it the perfect fit for fast state-of-the-art mobile NVH testing. Through the use of this powerful system, our complete measurement and analysis cycle on the average is reduced overall by half,” says Wieser. “This 50% time savings in test turnaround has tremendous business value in enabling us to respond faster to customer requests and assist to a greater degree in troubleshooting on a much shorter notice than was previously possible.”

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Nagase Integrecs Standardizes Its Engineering Systems on PTC CoCreate

20 January 2009

[PTC](#) announced that Nagase Integrecs Co., Ltd. has standardized its engineering platform on PTC’s explicit modeling CoCreate ® 3D CAD solutions, CoCreate Modeling™ and CoCreate Model Manager™. Nagase Integrecs is a leading machine tool manufacturer with the world’s highest precision, nanometer-level “super precision” machining technology (Nano = One billionth). The company provides precision machine tools to large Japanese precision machinery and electronic device manufacturers, customizing products based on individual customer requirements. In August 2007, [Nagase](#) was given a Prime Minister’s Award, the highest award in the government-sponsored second Monodzukuri Nippon Grand Award for its world-class technology.

Nagase Integrecs has been using CoCreate Drafting™, PTC’s 2D CAD solution, for the past 20 years. The company deployed CoCreate Modeling in order to address customer requirements for improved machining precision. Specifically, Nagase improved their product development by placing 3D CAD data at the center of their process and then integrating engineering, manufacturing, and assembly organizations as well as its component suppliers. Ultimately, CoCreate Modeling was selected because of its ease in making geometric changes, and its integration with CoCreate Drafting, which allowed for reuse of existing 2D assets through its support for data compatibility.

The company also develops super precision machine tools for optical components, such as LCD components for TVs and cell phones. The following products were all machined by Nagase developed machine tools:

- The “Subaru” telescope’s FMOS observation equipment at the Hawaiian observatory of the National Astronomical Observatory of Japan
- The primary mirror used in the telescope at the Okayama Astrophysical Observatory
- The secondary mirror, the world’s first ceramic mirror, of the “Kanata” telescope at the Hiroshima Astronomical Observatory

“With the deployment of CoCreate Modeling, we started moving from 2D to 3D design, and are now using 3D models to check interference and perform a variety of analyses. CoCreate Modeling has enabled our design engineers to quickly create a model with precise geometries using surface and other capabilities and generate super precise, nano-level machining representations,” said Takeshi Itazu, assistant general manager for Engineering, Nagase Integrecs. “CoCreate Modeling also enables us to

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make frequent design changes, flexibly addressing changing customer requirements. The software also supports accurate calculations of purchased material weight, which was not possible in 2D design and helps us calculate machining cost and also reduce transportation cost.”

“The CoCreate Model Manager data management solution, with its tight integration with CoCreate Modeling, is showing excellent performance in handling very large, complex assembly data. Nagase Integrecs uses CoCreate Model Manager to manage large, 10 meter+ machine model data,” said Martin Neumueller, Director of Product Management for CoCreate products at PTC. “With the light weight model and partial data loading capabilities of CoCreate, Nagase’s design engineers can quickly retrieve and save data regardless of the data size without generating much impact on system resources.” Also, access control capabilities at the component level enable multiple users to view overall design and work on individual components in parallel, reducing the overall product development cycle by 30%.

Nagase Integrecs purchased CoCreate products through OBIC, a PTC channel partner. Nagase Integrecs is currently working to further improve its precision machining technology and competitiveness through an expansion of its 3D product development platform with additional products of the CoCreate family.

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Renesas Selects EVE's ZeBu-XXL for LSI Design for Mobile Phone

23 January 2009

[EVE](#) announced that Renesas Technology Corp. of Tokyo has selected its ZeBu-XXL (for Zero Bugs) hardware-assisted verification platform for the design of its high-speed, high-performance large-scale integrated circuits (LSIs) used in 3G mobile phones.

ZeBu-XXL was chosen after a lengthy evaluation of cost-effective, commercially available emulation platforms that could accelerate the debugging of Renesas’ system-on-chip (SoC) designs.

“Concluding our thorough analysis to select the best hardware-assisted verification platform for our needs, we picked ZeBu-XXL,” says Toshihiro Hattori, department manager of Mobile SoC Design Dept.1 of System Solution Business Unit2 at Renesas Technology Corp. “Its ease of adoption, exceptional performance while running in transaction mode reaching a top speed of 20 megahertz (MHz), and scalability from 10- and 100-million application specific integrated circuit (ASIC) gates contributed to our final decision.”

Based on an array of large field programmable gate arrays (FPGAs), ZeBu-XXL sets the standard in smallest footprint, fastest execution speed, and lowest cost of adoption. ZeBu-XXL also offers interactive and hierarchical hardware and software debugging to shrink the verification cycle of complex embedded designs by several months.

“We are delighted to be chosen by Renesas and are appreciative of its diligence in conducting the evaluation,” remarks Dr. Luc Burgun, EVE’s chief executive officer and president. “We are confident that, by virtue of its fast execution, ZeBu-XXL will significantly accelerate the debugging of Renesas’ designs and ultimately speed time to market of its new designs.”

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Sogin Implements PTC® Windchill® As Global Platform For Data And Process Management

21 January 2009

PTC announced that Sogin has licensed PTC [Windchill](#) to centralize its product development information and standardize business processes in order to achieve a more efficient and safer management of decommissioning data. Sogin was established in 1999 under the framework of the re-organization of the national electricity sector. The company is responsible for decommissioning Italy's nuclear power plants and handling their radioactive waste.

In 2008, Sogin started the IPOD (Integrazione Processi Operativi del Decommissioning) project for the integration of operative and decommissioning processes. This project was created to centralize the management and operating data relating to its decommissioning activities, improve the integration and sharing of information and allow for data sustainability.

On the basis of IPOD functional assessment, SOGIN required an IT solution that would be able to manage the following processes:: Job management, material tracking and management.

To meet the above mentioned requirements, Sogin selected PTC. Leveraging the PTC Product Development System (PDS) architecture, Windchill will allow Sogin to develop a repository to efficiently manage all related processes and information. As part of the project, the company will deploy [Windchill PDMLink](#), [Windchill ProjectLink](#), Windchill PartsLink and PDF Creator.

PTC was chosen as "best in class" technology after a careful evaluation of the leading software solutions on the market, During the selection process Sogin worked Comedata, a consultancy company specializing in the development, implementation and management of IT and communication systems, to make its decision. Additionally, the project will be supported by Advantage, a PTC Certified Partner.

"We are pleased with our choice, since we believe that the PTC platform offers a comprehensive and integrated solution that is able to fully support our project," said Massimiliano Chiaroni, IT Manager at Sogin. "The data consistency and the native web architecture of PTC Product Development System will allow safe access to information as well as real-time monitoring of the progress status of the decommissioning processes at the single nuclear sites,"

"The acquisition of this new customer is particularly strategic, because it allows PTC to gain a foothold in the nuclear industry where there is an increasing need for cutting-edge IT solutions, said, Matthew McGovern, director, product and market strategy, PTC. "As a matter of fact, with the creation of third and fourth generation reactors, the presently active stations not complying anymore with environmental and safety standards are likely to be progressively dismantled, at the global level."

About Sogin

Sogin is the public-sector company formed in 1999 to manage the decommissioning of Italy's nuclear power plants. Sogin operates on the basis of the strategic guidelines set by the Ministry for Economic Development. Sogin was created as part of the reform of the national electricity system. The company is responsible for dismantling nuclear power plants and handling their nuclear waste. Sogin's technicians and experts work to achieve these objectives.

The four Italian nuclear power plants at [Trino](#), [Caorso](#), [Latina](#) and [Garigliano di Sessa Aurunca](#) were transferred to Sogin. In 2003, the company was charged with operating Enea's fuel cycle research reactors (the [EUREX plant in Saluggia](#), the [OPEC and IPU](#) plants of Casaccia near Roma, and the [ITREC plant of Rotondella](#)). The fuel production plant at Bosco Marengo was then acquired in 2005.

Sogin is also active in research, consulting and service provision in the nuclear, environmental and energy fields.

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Spirit AeroSystems Selects Right Hemisphere Software to Enable Visual Manufacturing

20 January 2009

Right Hemisphere® announced that its software has been purchased by the world's largest supplier of commercial airplane assemblies and components, Spirit AeroSystems, Inc. Spirit AeroSystems plans to use Right Hemisphere's software to generate "visual routers" -- or animated, visual work instructions. Once they are in production later this year, these visual work instructions will aid shop floor personnel building fuselages in Spirit's expanding Wichita, Kansas-based manufacturing facilities.

Spirit AeroSystems purchased Right Hemisphere's Deep Server™, Deep Access™ and Deep Exploration™ software, and will integrate them with its SAP® Product Lifecycle Management (SAP PLM) software. Right Hemisphere's Deep Server enterprise software will read Model-Based Definition (MBD) design data created in CATIA® V5 software and stored in SAP PLM, and combine it with Spirit's manufacturing bill of materials (MBOM) and textual work instructions. With this data and Right Hemisphere's Deep Exploration client software, a Spirit manufacturing engineer will be able to author visual routers. The Deep Exploration software will allow an engineer to create call-outs; set the most appropriate view of the model to aid the assembly process at hand; highlight the parts to be used in the assembly process; animate specific parts; and more. Once completed, these visual work instructions, or routers, will be deployed on the manufacturing shop floor in Flex-based HTML templates with Right Hemisphere's Deep View software.

"Enhancing text-based instructions with animated, visual work instructions is a great way for manufacturers to increase the speed of their production while actually reducing assembly line errors," said [Right Hemisphere](#) CEO Michael Lynch. "This is just one example of how 3D Visual Manufacturing solutions can optimize product development and manufacturing processes. They can also help manufacturers establish more effective ways to communicate and collaborate with global partners of varying levels of technical and language capabilities."

About Spirit AeroSystems, Inc.

Based in Wichita, Kan., Spirit AeroSystems is the world's largest independent supplier of commercial airplane assemblies and components. In addition to its Kansas facility, Spirit has operations in Tulsa and McAlester, Okla., Prestwick, Scotland, and Samlesbury, England. In the United States, Spirit's core products include fuselages, pylons, nacelles and wing components. Additionally, Spirit provides aftermarket customer support services, including spare parts, maintenance/repair/overhaul, and fleet support services in North America and Europe.

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TactonWorks Enables JMS to Shorten Turnaround Times with Design Automation

22 January 2009

Tacton Systems announced that JMS Incorporated Environmental has integrated TactonWorks into its custom configured quotations and drawings for order processing. TactonWorks will enable JMS to

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shorten turnaround times, improve customer response, and maintain their high quality standards in a growing business.

Founded in 1994, JMS evolved from a small tool and die shop to an international manufacturer specializing in precision engineered metal components. Parts are made for a wide range of companies within the automotive, appliance and discrete part industries. In-house engineering and design capabilities and a state-of-the-art tool room with CNC equipment enable the company to develop and build its own close-tolerance, custom tooling for presses quickly and cost effectively. One of the company's specialties is deep-draw stamping, which can produce more complex components to closer tolerances than other methods.

In the deep draw process, workpieces move from one station to another where intricate tools punch, bend, draw and otherwise form the metal into a finished part. The challenge is in establishing parameters for each stamping station including the depth of draw and amount of diameter reduction the workpiece undergoes. Based on these parameters, tooling is designed and drawings sent to the toolroom for fabrication. Manually computing press parameters and designing tooling is time-consuming and takes considerable experience, however, and errors missed in design reviews often do not surface until tooling is fabricated. The goal of JMS was to make the process more efficient and less error-prone, thus shortening the time to begin production stamping.

The solution for JMS was TactonWorks design automation software, which allows their engineers to embed design rules in the system using a graphical point-and-click manner with no need to type in long text commands or create complex programming codes. Press parameters are then automatically computed for each stamping station from key variables entered by JMS engineers. Because TactonWorks operates within the SolidWorks environment, CAD designs for tooling can be automatically generated for the toolroom to fabricate the stamping dies without engineers going back and forth between programs or opening and closing separate files. Engineers see tooling designs immediately as press parameters are entered, and the system automatically identifies errors and conflicts for engineers to correct on-the-spot before designs are sent to the toolroom.

"TactonWorks lets us work within SolidWorks to develop tooling designs in only two days instead of a week and a half required to do all this manually. Automation of these tasks also avoids costly mistakes and delays, allowing us to increase production throughput and reduce expense while maintaining the high quality of precision engineered metal components that customers around the world rely on from JMS," says Jason Raak, Design Engineer, JMS Incorporated."

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USR implements vCheck

20 January 2009

Valor Computerized Systems Ltd has completed a successful installation of its Manufacturing Quality Management System for electronics assembly at USR Electronic Systems, Israel's leading electronics contract manufacturer.

USR's work with customers in the medical, security and telecom segments such as GE Health Care, Syneron, Verint and others, presents its own unique challenges in terms of reporting and compliance. In order to deal with those challenges (such as FDA 21 CFR part 11), the company decided to implement a quality management system.

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Valor's Quality Management System (vCheck) fully integrates into USR's manufacturing process, collecting data from test and repair stations including visual inspection stations, Orbotech machines, and added support for SPEA and Teradyne machines coming up. Data is also collected from the functional test area. Using the consolidated data, vCheck enables easy pin pointing of problems as well as automatic suggestion of solutions from its knowledge base, providing significant reductions in the time it takes to analyze problems and locate solutions. vCheck provides USR with a variety of reports for both internal and external use, thus greatly simplifying the communication process with customers.

"Valor's technology has proven its superiority in the past, and it continues to do so with vCheck. Its reporting system has allowed us to identify areas in the assembly process where we had to take immediate actions in order to improve our quality, and it allows us to meet the strict demands of our customers with relative ease. vCheck also provides to USR with the ability to analyze customer design problems and recommend changes to products in order to eliminate quality issues." said Eddie Guez, CEO of USR. "Overall, the tool's performance, ease of use and capacity for growth make this a very worthwhile investment."

"USR is another great example of how we build strong partnerships with key players and EMS vendors in our industry," said Stephan Häfele, President of Valor Europe. "We see great interest among our EMS customers to adopt quality management solutions like vCheck, not only as an answer to their OEM customers' demand, but also as proactive means for better management and control of cost structures by improving the quality of operations".

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Product News

Cadence Expands C-to-Silicon Compiler with High-level Synthesis Support for Altera and Xilinx FPGAs

20 January 2009

Cadence Design Systems, Inc. announced the integration of FPGA-synthesis for Altera and Xilinx FPGAs with the [Cadence® C-to-Silicon Compiler](#), its flagship electronic system-level (ESL) technology for hardware design and implementation. C-to-Silicon Compiler improves designer productivity up to 10 times in creating and re-using system-on-chip IP. Originally focused on ASICs, this new version of C-to-Silicon Compiler delivers the same productivity benefits to designers of system-on-chip IP blocks targeting Altera and Xilinx FPGAs.

"We are starting to use C-to-Silicon Compiler in several production ASIC designs, and are recommending it to the other Hitachi design groups," said Toru Hiyama, general manager, MONOZUKURI Innovation Operation, Hardware MONOZUKURI Division at Hitachi, Ltd. "We requested Cadence for FPGA synthesis support earlier last year, expecting more designers would use C-to-Silicon Compiler not only for ASIC designs but also for high-priority FPGA designs. We are very pleased to see FPGA support capability available on C-to-Silicon Compiler, and the quality of results using C-to-Silicon Compiler is very promising."

The C-to-Silicon Compiler was launched in July 2008 with two unique capabilities in high-level synthesis, Embedded Logic Synthesis (ELS) and a Behavior Structure Timing (BST) database. ELS uses [Cadence Encounter® RTL Compiler](#) global synthesis to help ensure high accuracy and high-quality implementation results. The BST database enables design teams to perform true incremental synthesis—

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for example, re-synthesizing only the parts of the design that changed while leaving the rest of the design untouched. The latest release of the C-to-Silicon Compiler extends these capabilities from ASICs to FPGAs, with the same benefits.

"The C-to-Silicon Compiler very effectively handles mixed control/datapath designs, as well as incremental synthesis," said Steve Svoboda, product marketing director at Cadence. "In response to several customer requests this year, we applied our unique ELS technology to designs targeting the Altera and Xilinx FPGA families like we did with Cadence RTL Compiler. As a result, customers now get the same advantages with high-level synthesis whether they are targeting their designs to FPGAs or to ASICs."

"As FPGAs perform more functions within systems, there is an increasing level of interest among our customers for technologies that help reduce development times," said Chris Balough, senior director of software, embedded, and DSP marketing at Altera. "Cadence's C-to-Silicon Compiler provides an innovative approach to high-level synthesis that helps FPGA designers increase their productivity and quality of results."

"With the capacity and performance of Xilinx's Virtex-5 and Spartan-3 FPGAs, design teams are searching for high productivity and faster time to market," said Tom Feist, senior director of ISE Design Suite at Xilinx. "C-to-Silicon Compiler and its integration with Xilinx Synthesis Technology (XST) is a great start toward achieving this goal, raising the level of abstraction and design exploration above what can be found in traditional HDL flows. By expanding our collaboration with Cadence, we strive to meet the demand of our mutual customers for enhanced productivity and higher quality of results."

The Cadence C-to-Silicon Compiler is available in limited production, and is designed to work with the Altera's Quartus® II software and Xilinx Synthesis Technology FPGA-synthesis tools available from Altera and Xilinx, respectively. Its capabilities will be demonstrated in the Cadence booth during the Electronic Design and Solution Fair (EDSF) Jan. 22-23 in Yokohama, Japan.

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Fishbowl Solutions Announces Fishbowl Utilities for PTC® Windchill

15 January 2009

Fishbowl Solutions, Inc., a software, services and consulting company delivering solutions for the PTC Product Development System, announces their set of Fishbowl Utilities for PTC Windchill to enhance any Windchill PDMLink® or Pro/INTEGRALINK® deployment.

Fishbowl Utilities for Windchill integrate with the Windchill platform to add features that save time, enforce best practices, automate processes and improve an organization's implementation. Fishbowl Solutions' Utilities prevent errors that may be caused when users do not address the issues solved by a particular utility, or manually perform the actions a specific utility would automatically perform.

Fishbowl's current Utilities for Windchill include:

- **linkPurge**—deletes viewables without deleting the objects associated with them to re-capture vault space taken up by outdated viewables.
- **linkRenumber**—provides a user interface that allows names and numbers on both WTDocuments and EPMDocuments to be freely modified, even with auto numbering enabled. It validates that the new number is unique in the system and also checks that Object Initialization Rules are satisfied.

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- **linkTrigger**—ensures that the format associated with a drawing is on the organization’s approved format list and is the latest iteration available. linkTrigger also has a library of actions that are triggered by events in Windchill. Just some of the actions are checking data for accuracy, checking for proper formats and validating metadata among many more.
- **Revision Updater**—allows for the re-assignment for a list of objects of revision on the latest version of the object, without creating a new iteration.
- **Attribute Updater**—assigns Soft Attributes (IBA’s) to a list of objects without the need to create new iterations of each object.
- **Check in at any Revision**—adds a new menu selection to the existing Windchill Check-In Wizard that allows the user to specify the revision from a drop-down list that includes only the valid revisions defined by the organization.

Beyond these utility offerings, Fishbowl specializes in building custom utilities to meet the specified needs of a user. Contact Fishbowl Solutions at MCADsales@fishbowsolutions.com to learn more about these Utilities for Windchill and custom opportunities.

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IBM and SAP Announce Release of Their First Jointly Developed Software Product

19 January 2009

Today at the annual Lotusphere conference, IBM and SAP AG announced the planned release date of March for their first joint software product, called Alloy™ software by IBM and SAP. IBM and SAP showcased successful early results of this product for several customers, including Colgate-Palmolive and Arla Foods at Lotusphere.

Alloy software combines IBM Lotus Notes software with SAP® Business Suite. Alloy is a new style of software application that presents information and data from SAP applications in the context of what millions of business users are familiar with – the IBM Lotus Notes collaboration software desktop. This will make it easier for professionals to do their jobs and greatly enhance the investment that companies have made in their SAP applications.

“We expect the new Alloy software from IBM and SAP to help us drive down IT management costs and boost productivity by allowing employees easy access to SAP reports, procurement data and product lifecycle management tools directly from their Lotus Notes e-mail,” said Tom Greene, CIO, Colgate-Palmolive.

“Alloy will enable our senior management immediate access to critical information residing in our SAP system directly from Lotus Notes,” said Claus Qvistgaard, senior director, Arla Foods a.m.b.a, Global IT. “This will enable them to improve the quality and timeliness of their decisions, leading to superior business outcomes for Arla Foods.”

IBM Lotus and SAP have thousands of mutual customers who have been asking for the functionality that Alloy software will provide. The majority of IBM’s top 100 customers also use SAP offerings.

“In today’s challenging business environment, companies need to identify and respond to operational changes more quickly,” said Bob Picciano, general manager, IBM Lotus Software. “Tools that provide business people with seamless access to expertise, processes and information streamline work and improve productivity. Alloy software by IBM and SAP is designed to help individuals and companies

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work more efficiently to produce better business outcomes.”

For more than 35 years, IBM and SAP have collaborated to bring joint customers offerings to improve business efficiency at more than 13,000 client sites for their millions of users.

“In today’s economy, more than ever, our customers want to maximize the value derived from their existing investments,” said Michael Reh, senior vice president and general manager, SAP. “Joint Lotus Notes and SAP customers can do that by leveraging Alloy. With Alloy, organizations can bring people, processes and information together in one place for business users, thereby increasing adoption and providing opportunities to further improve return on investment on the technology solutions that run their businesses.”

Alloy supports SAP workflows, reporting and analytics, and the use of roles from within the Lotus Notes client. The product ships with a set of standard workflows and reports. These standard elements may be customized using standard Domino and SAP tools to reflect a company’s unique processes. IBM Global Business Services, SAP practitioners, Domino business partners and other global and regional systems integrators will be available to customize Alloy software. Alloy implementations will take advantage of the collaborative and offline capabilities inherent in Lotus Notes and Domino products.

The initial release will be sold by both companies.

For more information on Alloy, please visit <http://www.sap.com/alloy> or <http://www.ibm.com/software/lotus/notes/alloy>.

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ICAM Interfaces Post-Processing Product Suite to Mastercam

21 January 2009

[ICAM](#) Technologies Corporation (ICAM) and CNC Software Inc. (CNC) announce that they have signed a Business Partner Agreement allowing for a smoother integration between their two distinctive products. Under this agreement, ICAM has created a graphical user interface to its complete NC post-processing development product suite within Mastercam.

Mastercam NC programmers can now develop integrated NC post-processing and machine simulation solutions for 5-Axis Mill and Mill / Turn applications within Mastercam 8, 9, X2 and X3 using CAM-POST® and Virtual Machine® - ICAM's advanced NC post-processing and machine tool simulation products, respectively.

Customers will benefit from ICAM's extensive NC post-processing expertise with advanced multi-axes machining applications and techniques such as path planning, high-speed machining, tool-tip programming, coordinate frame transformations, NURBS interpolation and arc fitting of point-to-point data.

Within the context of this partnership, ICAM has developed a Mastercam Extractor featured within the latest version of Virtual Machine. Mastercam Extractor allows for the automatic data extraction of the tool, part and stock including fixtures and holders, as described in Mastercam X2 and X3; thereby, enabling NC programmers to easily and efficiently create machine simulation sessions.

Deploying Virtual Machine as an integrated option to CAM-POST, delivers a powerful machine tool simulation solution providing Mastercam programmers with the means to simulate and test NC programs against collisions and over-travel easily and automatically during post-processing.

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"ICAM is the most widely used NC post-processing solution for multi-axes machining applications" says Doug Nemeth, Corporate Sales at CNC Software. "A CAM-POST interface within [Mastercam](#) and the Mastercam Extractor featured in Virtual Machine will allow our customers to efficiently create advanced post-processors and machine simulations, resulting in increased part production and quicker time to market."

"Mastercam programmers can rest assured that they can obtain high-quality and proven ICAM post-processors that support all major machine tools and controllers" adds Sam Chehab, ICAM's VP of Sales and Marketing. "Mastercam users can also benefit from ICAM's Integrated PSE solution that allows for advanced NC post-processing, machine tool simulation and verification as well as G-Code emulation within a single integrated software platform."

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Lattice Technology Releases XVL Converter for JT

22 January 2009

Lattice Technology, developers of digital manufacturing applications using the XVL® format, announced its new converter which supports the JT™ format.

JT is a format created and released by Siemens PLM. With its support of the JT format, the Lattice Technology Digital Manufacturing solutions can now convert JT data into the more very accurate, highly compressed XVL format, which delivers up to 10 times more compression than similar precise JT formats. Once in XVL, the data can be used in Digital Mock Up (DMU), motion simulation, assembly animation, process design and instructions, and illustrations direct from 3D to enable digital manufacturing processes throughout the enterprise.

"It is our policy at Lattice Technology to ensure that our clients' data format standards are supported, while still allowing them the flexibility and productivity that Lattice Technology Digital Manufacturing Solutions offer," said Bill Barnes, GM, Lattice Technology. "The XVL format remains the most flexible, accurate and provides the industry's best compression rates that allow manufacturers to leverage 3D into true digital manufacturing and lean processes."

The XVL Converter Server for JT automates rapid conversion of JT format files into XVL. XVL is used by thousands of manufacturers worldwide to enable the productive use of 3D in manufacturing processes. Companies with a strategic mission of lean manufacturing through the use of digital data adopt XVL and Lattice Technology's Digital Manufacturing solutions in order to strengthen their use of accurate, lightweight 3D data across the enterprise. XVL solutions leverage existing 3D CAD, PLM and ERP implementations to deliver tangible improvements in product design accuracy, product time-to-market and to actively reduce costs.

Continued Barnes.

"Once your 3D is in XVL, it becomes highly flexible, allowing 3D to be actively used in disciplines that traditionally have not exploited 3D before. The Lattice Technology Digital Manufacturing applications enable the accurate creation of production processes, assembly animations, detailed design review on complete 3D assemblies, creation of illustration and more. With the release of this new Converter, now your JT data can be used with the same flexibility."

The XVL Converter for JT expands manufacturers' use of 3D across the entire manufacturing enterprise and is immediately available for trial and purchase.

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Demonstrations of the XVL Solutions for Design Review, Automated Assembly, 3D Parts Lists and PDF support can be found at: <http://www.lattice3d.com/solutions/demos.html>

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Mentor Graphics Announces Scalable TLM-2.0 Design Flow Using Vista and Catapult C Synthesis Electronic System Level (ESL) Design Tools

20 January 2009

[Mentor Graphics Corporation](#) announced a new Scalable Design Methodology based on a layered transaction level model (TLM) that allows a single model to be taken from design concept to implementation. The Mentor Graphics Vista™ family of electronic system level (ESL) design tools are structured to support an efficient “layered” modeling based on the recently announced SystemC Transaction-level Modeling Standard (TLM-2.0) by the Open SystemC Initiative (OSCI).

Mentor Graphics also announced an automated flow between the Catapult® C Synthesis tool and Vista offering a TLM wrapper generation flow which now supports TLM-2.0 compatible models. The Catapult-Vista TLM-2.0 model generation flow bridges the gap between hardware design and system-level modeling by providing a link between the Catapult C Synthesis tool untimed ANSI C++ source and the Vista SystemC scalable design and simulation environment. This provides an industry-first automated ESL design flow from high-level synthesis to models based on the TLM-2.0 standard.

The TLM-2.0 standard provides SystemC model interoperability and reuse at the transaction level, resulting in an ESL “framework” to validate system hardware, analyze system architecture and software execution, and link with the software development chain. While TLM-2.0 serves as a good basis for interoperability and extensions, Mentor has taken this technology a step further in modeling efficiency.

Using an object-oriented (OO) approach that separates functionality from communication, timing and power, the Vista design suite provides a single-model that can scale from a pure untimed functional model to a fully implemented one; thus, seamlessly link with both software domains and hardware implementation for optimized success, efficiency and reliability. This approach applies also for power modeling at the TLM level, for applications such as semiconductors for consumer electronics and mobile communications devices.

“Adoption of the TLM-2.0 standard protects the designer’s investment in high-level models,” stated Mike Meredith, president of OSCI. “We welcome the Mentor Vista product line to the growing industry support for TLM-2.0 which enables users to effectively integrate models and tools to create verification platforms needed for today’s highly advanced designs.”

“As the leading ESL technology solutions provider in the EDA industry, our goal is to enable the design community to be productive, innovative and meet their design challenges,” stated Simon Bloch, vice president and general manager of Mentor Graphics design and synthesis division. “By providing our customers with the Vista ‘single-model’ Scalable Design Methodology, we hope to encourage wider industry adoption of the TLM-2.0 standard.”

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NuVentures Announces Release 7 of PDMLynx Product Data Management Software

23 January 2009

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NuVentures LLC announced the availability of data management software PDMLynx release 7.

PDMLynx enables organizations to effectively manage their complex web of engineering and manufacturing documentation without forcing software driven engineering process changes. Part numbers, Bills of Material, Approved Manufacturer (AML), Approved Vendor (AML) information and all engineering documents are managed with revision control under a fully automated ECO process. PDMLynx manages virtually any type of document including the support of the complex interrelated files commonly used in CAD/CAM driven designs. Designs based upon multiple CAD/CAM tools are elegantly maintained within the tool.

With release seven PDMLynx has adds integration to popular email systems for email notification of all engineering changes. This release also adds quick launch buttons for all common functions and increased flexibility on part numbering schemes. Release 7 caps off a long list of product improvements for 2008 including:

- Enhanced part number revision control
- Expanded part number formats
- Quick launch button support for all key functions
- Compliance tracking by part number
- Red lined BOM reports to quickly identify changes
- Customer defined part specific information fields
- Approved Manufacturer (AML) information management
- Approved Vendor (AML) information management
- Costed single, condensed and multi-level BOM reports
- Email integration

PDMLynx is a shared database application configurable to meet any engineering organization's need. Manual tracking of product information with individual excel spreadsheets, home grown databases and paper files is replaced with one organization wide elegant software solution. PDMLynx's engineering change order process supports engineering change requests, and engineering change orders at multiple levels of control to assure the required history is maintained without creating unnecessary process burdens. Full product information can be found at <http://www.pdmlynx.com>.

About NuVentures LLC

Established in 2007, NuVentures focuses on providing software for emerging companies that improves engineering productivity and quality without process or MIS overhead.

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Pictures by PC CAD/CAM Release Includes Advanced Drilling Functionality

20 January 2009

German software developer Schott Systeme GmbH is helping manufacturing companies to further optimise their drilling processes with the latest release of their Pictures by PC 3.4 CAD/CAM software.

Often overlooked by software developers is the continued importance of effectively handling 2D data to

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machine, especially when many companies remain reluctant to supply external machine shops with fully detailed 3D representations of in house designs. Highlighting this as a major oversight by many CAM products, Schott Systeme have further enhanced their own suite of dedicated 2D CAM functionality within the latest version of their CAD/CAM software Pictures by PC 3.4.

Focussing first on drilling, the extraction of drill features from a 3D model is common place, with Schott Systeme like many other CAM solutions offering 3D feature recognition. However in addition, the company is also offering the automatic recognition and optimisation of 2D drill features. Made possible through the tight integration of their 2D/3D CAD and CAM tools, the software is providing customers with the means to automatically sort through all of the drill objects found within a 2D drawing, subsequently arranging them into specific size groups, regardless of their number. Once grouped together, the customer's preferred methods of drilling, including all of the standard canned cycles, can then be instantly applied to all of the holes of a given size. The latest version also sees the inclusion of drill optimisation, where the software remains aware of the location of all the surrounding holes, and automatically calculates the shortest sequence for any given combination of drilling movements.

The second area of development has centered around the drilling and optimisation of complex multisided parts requiring pre-positional 5 axis machining. 3D feature recognition was originally introduced within the previous release of software, and was able to recognise and extract differing hole types on differing work planes. However this functionality is now combined with muliplane optimisation. Firstly the software extracts and groups together all holes of a similar size, on a specific face of the model, and these are in turn optimised to generate the shortest drilling sequence. Pictures by PC then examines the other machining workplanes, and further groups together any additional holes of an identical size that can be drilled from the same machining direction, again sorting the drilling sequence. The result is the true optimisation of drill features across multiple machining planes, reducing the time spent drilling.

View the demo video at <http://www.schott-systeme.com/en/newdrillingvideo-en.htm>

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SIMPOE SAS Announced the Availability of the New Release Simpoe-Mold 2009 and SimpoeWorks 2009

19 January 2009

SIMPOE SAS, headquartered in Torcy, France, is a French software developer specializing in plastic injection molding simulation solutions. SIMPOE SAS announced today the immediate availability of the new releases Simpoe-Mold® 2009 and SimpoeWorks® 2009 of its plastic injection simulation software product lines.

Simpoe-Mold is a standalone version, while SimpoeWorks, a SolidWorks Gold Partner product, is fully embedded into the SolidWorks 3D CAD software. Besides the traditional advantages brought by all SIMPOE products: ease of use, speed and affordability, these new releases bring major benefits and new functionalities to plastic parts product designers, manufacturers and mold makers.

Simpoe-Mold® 2009 and SimpoeWorks® 2009 users have now access, among others, to:

- Simulation of plastic molded parts with metallic inserts.

- Simulation of multi-domain injected parts. A typical example would be the rear light of a car, where an area of the light is red, another area is yellow, and a third white.

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The possibility to assign different temperatures to various areas of the same mold.

The possibility to export the deformed or counter deformed geometry of the original part, to optimize mold design, as well as connexions to structural analysis codes.

Full 64 bit machine support.

An incredibly fast mesher, with user friendly mesh control tools, which allow, in combination with the multithreading of the software, simulation of meshed parts with several millions of elements.

For Thierry LEROY, SIMPOE 's Chief Operating Officer :” The 2009 releases of our products represent another important milestone in our strategy to democratize Plastic Injection Simulation. Simpoe-Mold as well as SimpoeWorks 2009 releases can be used by Product Designers for quick design validation of their plastic parts, as well as by mold makers or part manufacturers for product validation, taking into account all the details of the part, of its mold and its thermal regulation system. I believe it is the first time the same product offers such speed, user friendly approach, accuracy, combined with an extensive range of functionalities, at such an affordable price. With SIMPOE products, the last barriers to implement a Collaborative Product Development strategy in the plastic industry are now gone forever”

About SIMPOE SAS

SIMPOE SAS, headquartered in Torcy, France, is a French software developer specialized in plastic injection molding simulation solutions. Simpoe-Mold and SimpoeWorks softwares allow significant costs savings of physical mold prototypes, material cost optimization as well as a drastic reduction of the time to market of new products. Easy to use, easy to learn and affordable, SIMPOE softwares are targeted to the mold specialist as well as to the mechanical Engineer who, in a collaborative product development approach, wants to take into account plastic parts manufacturing constraints early in the product design stage.

SIMPOE softwares are available in several languages through a worldwide network of specialized Value Added Resellers.

SimpoeWorks 2009 will be presented at the SolidWorks World 2009 conference in Orlando, February 8 to 11, booth 820.

Contact:

Thierry LEROY

SIMPOE SAS

1, allée Emile Cohl

77200- Torcy, France

Tel : + 33 1 60 33 29 90

info@simpoe.com



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Synopsys Enhances DesignWare Ethernet IP With Support for IEEE 1588 Specification and ARM AMBA 3 AXI Interface

20 January 2009

CIMdata PLM Industry Summary

Synopsys, Inc. announced it has enhanced the DesignWare® Ethernet MAC 10/100/1G IP to include support for the latest IEEE 1588 specification as well as an interface to the ARM® AMBA® 3 AXI™ protocol. The IEEE 1588 specification provides a standard method to synchronize devices on a network with sub-microsecond precision. This capability is a key requirement for consumer products in digital home applications as well as measurement and control systems. The addition of the AMBA 3 AXI interface enables designers to easily add Ethernet connectivity to their systems-on-chips (SoCs). Synopsys' DesignWare Ethernet IP solution is certified by the University of New Hampshire Interoperability Lab (UNH-IOL), which demonstrates proven interoperability and conformance to the IEEE standards.

As Ethernet is increasingly a standard interface in applications such as set-top boxes, routers, control systems and entertainment systems, synchronizing these devices within the Ethernet network can be challenging. The IEEE 1588 specification implements real-time clocks to precisely synchronize all of the connected devices, allowing systems to exchange the required amount of data such as audio and video streams, within a predefined time. Support for this specification has been added to the silicon-proven DesignWare Ethernet MAC 10/100/1G IP to help designers quickly incorporate this functionality into their SoCs. By using the new AMBA 3 AXI interface available in the DesignWare Ethernet IP, designers can leverage this high-performance on-chip bus to deliver higher throughput designs with access to a wealth of Ethernet-based systems and peripherals.

In addition to Ethernet IP, Synopsys offers a comprehensive portfolio of digital and mixed-signal IP including USB, PCI Express, DDR3/DDR2, SATA, 1394, Datapath and AMBA On-Chip Bus targeted for digital home applications. All are optimized to support advanced process technologies and deliver high system performance, enabling designers to develop feature-rich digital home SoCs.

"As a leader in Ethernet IP, Synopsys develops high-quality IP that enables designers to benefit from the latest on-chip bus standards and IEEE specifications," said John Koeter, vice president of marketing for the Solutions Group at Synopsys. "By adding support for the IEEE 1588 specification and an AXI interface, Synopsys is providing a UNH Certified Ethernet IP solution that is ideally suited for the latest requirements in digital home networking applications."

Availability

The DesignWare Ethernet MAC 10/100/1G IP solution with IEEE 1588 and AMBA 3 AXI interface support is available now, for more information visit: <http://www.synopsys.com/ethernet>.

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ZWSOFT Ships ZWCAD 2009 in German (Beta) and Czech

21 January 2009

ZWCAD Software Co., Ltd. made it easier for architects, engineers and designers to fully realize their ideas with the release of two new language versions of the software - ZWCAD 2009 German (in beta version) and ZWCAD 2009 Czech.

"Our customers have told us they want our easy-to-use tools localized for their familiar drawing environments," said Truman Du, CEO of ZWSOFT. "For the ten years, we have been improving our ZWCAD software to meet the needs of our customers. With the release of ZWCAD 2009 in Chinese, English, German and Czech, and active progress in another six languages (i.e. Italian, Korean, Japanese, Polish, Russian, and Spanish), we are taking our customer care one step higher."

CIMdata PLM Industry Summary

The German and Czech versions of ZWCAD 2009 are fully localized, with commands and dialog boxes translated accurately into German or Czech. Drafting tools for handling any drafting challenge are enhanced in both the German and Czech editions. With more efficient collaboration tools and drawing management, ZWCAD 2009 simplifies drawing sharing. Through enhancements such as Aerial View window, jogged and arc length dimensions, multiple grips editing, and improved DRX API, everyday tasks are streamlined for productivity.

To download ZWCAD 2009 German (Beta) and ZWCAD 2009 Czech, go to <http://www.zwcad.org/cad-software-download.html>.



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