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Top Story

CIMdata Releases its 2010 China PLM Report

5 May 2010

Management consulting and research firm CIMdata announces the availability of its first China Product Lifecycle Management (PLM) Report. This report provides detailed information and in-depth analysis on the People's Republic of China's ("China") rapidly-evolving Mainstream PLM market. The report discusses the major China PLM trends and issues, PLM purchase investments in software and services,

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PLM adoption in various industry sectors, and market growth forecasts that pertain to this important and quickly expanding economic region. Additionally, this report provides insight into PLM market dynamics within the region and the revenue performance of the leading PLM solution suppliers operating within it, both China-based and international PLM solution suppliers based elsewhere. This report represents a joint collaborative effort of CIMdata and China-based e-Works Manufacturing Information Technology Co., Ltd.

Ken Amann, CIMdata Director of Research said, “While still small, PLM investments within China are growing rapidly. We were happy to report that in spite of the global economic downturn in 2009, China’s PLM market still grew. In 2009, the China PLM market grew 6.2%, and in 2010 the growth rate of the China PLM market is forecasted to be 12%.” China industries that have been investing in PLM include aerospace, automotive, high-tech, and mechanical machinery.

Global PLM solution suppliers have been investing in China for several years and have established partner networks and growing customer bases. The leading international PLM suppliers include Dassault Systèmes, PTC, and Siemens PLM Software. “However, there are a growing number of China-based PLM solution suppliers that provide both competition and China-tailored solutions,” stated Peter Bilello, CIMdata Vice-President. “The China-based PLM solution suppliers will be a driver of growth over the next several years. This should be significant, given the number of China-based suppliers that exist,” he added.

This report has been designed to be a valuable source of information that can be used in support of business and market planning processes of PLM solution suppliers that are targeting China as well as industrial companies within China who would like to understand the PLM competitive landscape. Further details including pricing information about the report are available on CIMdata’s website for [publications](#).

About PLM

CIMdata defines PLM as a strategic business approach that applies a consistent set of business solutions in support of the collaborative creation, management, dissemination, and use of product definition information across the extended enterprise from concept to end of life—integrating people, processes, business systems, and information. PLM forms the product information backbone for a company and its extended enterprise.

About CIMdata

CIMdata, an independent worldwide firm, provides strategic consulting to maximize an enterprise’s ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding more than 25 years ago, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM enabling technologies.

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

To learn more about CIMdata’s services, visit our website at <http://www.CIMdata.com/>, follow us on

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twitter, <http://twitter.com/CIMdataPLMNews>, or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957, or Siriusdreef 17-27, 2132 WT Hoofddorp, The Netherlands. Tel: +31 (0)23 568-9385. Fax: +31 (0)23 568-9111.

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CIMdata News

CIMdata in the News: Milford Firm Finds Solution to Engineers' Annoyance; Online catalog aims to help companies avoid waste

30 April 2010

Companies are increasingly focusing on reducing the number of distinct parts used in order to consolidate suppliers and achieve volume discounts, according to a April report [[3D Part Catalog Management: "A PLM Strategy to Reduce Direct Material Costs"](#)] by CIMdata, an Ann Arbor, Mich.-based consultant. But companies often have inefficient electronic part catalogs developed over decades, according to the firm, making it easier for the designer to order up a new custom part – and effectively add to the mess.

A solution that encourages use and reuse of standard parts can lead to “shorter design times, less reinvention of parts and lower parts costs,” according to CIMdata.

Part Solutions has developed online 3D catalogs for manufacturers that allow engineers to search for parts by shape or other variables.

Advantages of this technology:

- Well-organized internal database of approved or previously used parts helps companies avoid going back to the drawing board each time pieces are needed
- Catalogs help standardize parts so engineers don't waste time and money designing specialized pieces similar to ones their colleagues have already used

Part Solutions says its catalog technology is catching on. Details are featured in this Business Courier of Cincinnati [article](#)- by James Ritchie

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Company News

Autodesk Announces New Design Software Solutions for Education Market

5 May 2010

Autodesk, Inc. has unveiled eight industry-oriented software suites to help students learn core design and engineering skills. The suites contain the full range of Autodesk 2D and 3D design software tools used by professionals worldwide. The bundled packages encourage a multidisciplinary educational approach, helping faculty teach key concepts that help prepare students for rewarding careers in architecture, engineering and the digital arts. These suites, offered globally, are available in English and more than 10 other languages.

“There is a tremendous worldwide demand for engineering and design professionals who possess

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relevant education and technology skills to address current and future challenges,” said Joe Astroth, Ph.D., Autodesk chief education officer. “Our new software suites and curricula will help meet that need.”

Solutions for Postsecondary Academic Institutions:

- [Autodesk Education Master Suite 2011](#)
- [Autodesk Education Suite for Architecture & Engineering 2011](#)
- [Autodesk Education Suite for Civil & Structural Engineering 2011](#)
- [Autodesk Education Suite for Entertainment Creation 2011](#)
- [Autodesk Education Suite for Industrial Design 2011](#)
- [Autodesk Education Suite for Mechanical Engineering 2011](#)

The suites consist of the 2011 versions of 21 industry-leading Autodesk products, including [AutoCAD](#); [AutoCAD Civil 3D](#); [Autodesk 3ds Max Design](#); [Autodesk Alias Design](#); [Autodesk Inventor](#), [Autodesk Maya](#); and [Autodesk Revit Architecture](#). The improved features and functionality of these products help aspiring design professionals explore design ideas and learn about key concepts and industry trends such as [Building Information Modeling](#) (BIM), [Sustainable Design](#), [Digital Entertainment Creation](#) and [Digital Prototyping](#), helping to improve their competitive advantage in the workplace.

The suites are supported by curricula that include professionally developed lecture notes, student workbooks, projects and other valuable tools to help instructors teach crucial skills. Among the curricula included in the suites are Autodesk Sustainable Design Curriculum, a series of lessons that explore the methods and tools to better prepare students for the integrated practice of sustainable design; Autodesk Conceptual Design Curriculum, which teaches conceptual design using exploration, iterative design and various modeling techniques; Autodesk Civil Engineering Curriculum, to help deepen students’ understanding of engineering design and analysis; Autodesk Inventor Education Curriculum, featuring 3D mechanical design concepts from sketching, modeling and documentation to analysis and visualization; and Autodesk Industry Careers Framework for Games and Animation, which approaches learning 3D through the core subjects taught in traditional creative studies, including modules on animation and interactive 3D space. All curricula are available at the [Autodesk Education Community](#), an online resource for students and educators.

Solutions for Secondary Schools

In addition to the postsecondary products, Autodesk offers two suites to help secondary-school students see the dynamic connection between [science, technology, engineering and math](#) (STEM).

[Autodesk Design Academy 2011](#) includes 2D and 3D software and learning tools to help educators inspire students to pursue academic degrees in architecture, engineering and design. Among its curricula are Design Basics Curriculum, which introduces students to foundational design knowledge; Pre-Architecture Curriculum, illustrating the architectural design process through real-world projects; Robotics Curriculum, a fun, interactive way to learn engineering; and Science and Math Curriculum, which helps students connect with technology using mathematic and scientific principles to solve problems. The curricula will be available online at the Autodesk Education Community.

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Autodesk continues to offer [Autodesk Animation Academy](#), a modular suite that helps educators inspire students to explore careers in the digital arts, entertainment and visualization fields. The curriculum is structured to give students the autonomy to explore. It provides a foundation for learning 3D applications as well as conceptual and applied exercises to explore techniques. The suite also teaches students how to visualize and problem solve through the use of 3D applications while studying a broad range of cross-disciplinary topics.

Purchasing and Availability

English-language versions of the new industry-oriented suites are scheduled to begin shipping in June, and will be offered in other languages. Licenses for each suite will be available in volume discount packages, ranging from small class packages to large school packages, depending on geographic region.

Individual Product Offerings

In addition to the new suites, licenses of many 2011 products are available individually for classroom use to give faculty greater purchasing flexibility. For those students who choose to benefit from product ownership, licenses of select individual products are available for purchase.

For additional information about Autodesk 2011 education offerings, please visit <http://www.autodesk.com/education>.

Autodesk Education Community

With the latest release of Autodesk 2011 products, there are now more than 25 new software titles available for free* download to students and educators on the [Autodesk Education Community](#). Students can also download many learning resources, search for internships and jobs, showcase their designs and discuss design topics with their peers. In addition, educators can download curricula and exchange best practices within the secured site. Since its launch in 2006, the community has expanded to more than 1.2 million members representing more than 18,000 schools in 140 countries.

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Cimatron Expands Its Network in Singapore, Malaysia and Thailand

3 May 2010

[Cimatron Limited](#) announced that CAD/CAM specialist MyGrowTech Sdn.Bhd has been authorized as an official reseller and technical support provider for Singapore, Malaysia and Thailand.

MyGrowTech, a new company founded by engineers with over 10 years of experience in the manufacturing software industry, now offers sales, support and training for both of Cimatron's main product lines, CimatronE and GibbsCAM.

"The addition of MyGrowTech to our distribution network in South East Asia marks the introduction of GibbsCAM to Singapore, Malaysia and Thailand, and greater support and reach for CimatronE," said Kobi Rosenwasser, Cimatron's VP for Asia Pacific. "We are confident that expansion in our network will result in a greater customer base for both of our product lines, in areas of Asia where demand is increasing rapidly."

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CIMdata PLM Industry Summary

CimatronE Selected as the Designated Multi-Axis Machining Software by China National Competition

6 May 2010

[Cimatron Limited](#) announced that CimatronE has been selected as the designated multi-axis machining software by the China National Vocational Students Skills Competition 2010.

The National Vocational Student Skills Competition (NVSC) is an annual event organized by China's Ministry of Education that takes place in Tianjin in June. Founded in 2008, the competition is nationwide, with over 3,000 competitors from 23 provinces.

Cimatron has been involved in NVSC and the National CNC Competition, which preceded it, since their inception. This year, CimatronE was selected for the section of the competition entitled, "complex parts modeling, multi-axis programming and machining." Contestants will be assessed based on their skills in all areas of machining, with emphasis on 5-Axis Programming.

Cimatron has continued its support of the annual competition by collaborating with Wuhan Huazhong Numerical Control Co. (HCNC), a machine tool builder and major sponsor of NVSC, which runs several CNC training centers in China. The collaboration includes three CNC training classes, in March, April and May of 2010.

"We are proud that CimatronE was chosen as the multi-axis machining software for this nationwide competition; working with CimatronE will allow the students to acquire valuable experience which will help them kick-start their careers," said Lang Yan, Cimatron's General Manager in China. "We wish all of the students the best of luck."

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Hankook Delcam Supports Dental CAD/CAM Training in Korea

6 May 2010

Delcam's reseller in Korea, Hankook [Delcam](#), has demonstrated its commitment to the increased use of CAD/CAM in the country's dental industry by donating software for the training of dental technicians to two of the leading universities in Seoul.

The first donation extends the existing cooperation between the Korea University, which is reputed to be the leading educational institute in Korea, and Hankook Delcam. The two organisations have worked together for many years on the training of engineers in Delcam's manufacturing software, one of many relationships which have made Hankook Delcam the main supplier of CAD/CAM software to Korea's educational system for over 20 years.

Chan-oong Jeong, President of Hankook Delcam commented, "We are keen to contribute to the training of students and to improve their professionalism and abilities in the design and manufacture of dental restorations with the latest digital techniques."

The second donation is part of a Memorandum of Understanding between Korea University Health Science College and Hankook Delcam. Other aspects of the agreement include joint development of the course curriculum and textbooks, support of university-industry cooperation through internships for the students, regular communication on the latest technical developments, shared use of equipment, and joint research and development into new technology for the dental restoration industry.

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By working with the Korea University Health Science College, Hankook Delcam continues to strengthen the competitiveness of the Korean dental restoration industry. It will provide training in dental CAD/CAM technology to the students and support process innovation by graduates within the dental industry.

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Kaplan EduNeering and ProtonMedia Announce Alliance

6 May 2010

Kaplan EduNeering, a provider of compliance and knowledge management technology solutions, and ProtonMedia, the developer of the ProtoSphere virtual collaboration environment for the high-performance workplace, announced a new multi-year partnership. The companies will develop and offer a comprehensive suite of tools for compliance training, product life cycle management (PLM), and collaborative decision-making for life sciences organizations.

Kaplan EduNeering's online compliance solutions are used by over one million individuals in more than 50 countries by companies in regulated industries, including cosmetics, pharmaceuticals, biologics, dietary supplements, and medical devices.

ProtoSphere is a virtual collaboration environment for the high-performance workplace, and one of the top virtual environments for collaborative product life cycle management (PLM) in life sciences. ProtoSphere's virtual environment provides an arsenal of business-focused collaboration and communication tools that help companies accelerate decision-making and raise productivity, improving workplace performance overall.

Together, [Kaplan EduNeering](#) and [ProtonMedia](#) will create a best-of-breed 3-D virtual collaboration environment, driven by the compliance tracking engine of the Kaplan EduNeering Platform. Kaplan EduNeering's expertise in delivering solutions that help companies meet regulatory and compliance requirements will augment ProtonMedia's ability to effectively foster product life cycle collaboration within research, development, production, marketing, and customer engagement phases. This combination of core competencies delivers a transformative enterprise tool for collaborative decision-making and compliance.

"Life sciences companies are facing an increasingly complex and constantly fluctuating regulatory landscape," says Ron Burns, CEO of ProtonMedia. "Requirements must be met surrounding every aspect of their business, including product life cycle management. Our alliance with Kaplan EduNeering combines the benefits of virtual meetings, document sharing, and collaboration, with the compliance capabilities of the Kaplan EduNeering platform. The result is a virtual workplace that lets companies collaborate across every stage of their product life cycle, while meeting compliance standards."

A trial version of ProtoSphere can be downloaded at <http://protonmedia.com/trial-download/>

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Magma "Titan Up!" Program Empowers Analog Designers to Improve Productivity and Reuse

5 May 2010

[Magma® Design Automation Inc.](#) launched the "Titan Up!" program to educate analog designers about the latest technologies for analog and mixed-signal design. Analog design has traditionally been a

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manual, time-consuming task and reusing analog IP has been difficult, if not impossible. The Titan™ family of analog/mixed-signal design solutions delivers breakthrough analog design capabilities, including layout-aware schematic design; rapid design exploration and optimization; dramatically improved productivity for layout designers; analog design reuse; and automated process migration. To highlight these solutions, the interactive "Titan Up!" program includes a series of online quizzes and a free trial of the Titan software providing a designer-friendly introduction to Magma's Titan family of analog/mixed-signal design solutions.

The first element of the program, the "Titan Up!" online quizzes, allows designers to test their knowledge of analog design basics and analog IC history. Completing each quiz enables participants to enter a weekly drawing for an Apple iTouch. The free trial of the Titan solution will give designers hands-on experience porting reusable analog blocks and creating custom analog designs from reusable analog libraries. The "Titan Up!" online quizzes begin today and will be available through June 21. The Titan download will be available in June. Designers can access the quizzes and the download by visiting <http://www.magma-da.com/TitanUp>.

One iTouch per week will be given away. Only current and prospective Magma customers are eligible to win. No purchase necessary to enter, play or win. A purchase will not improve your chances of winning.

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Tata Technologies Expands iPRODUCTS Reseller Network to UK

6 May 2010

Tata Technologies, announced the latest expansion of its global reseller network responsible for the worldwide distribution of its proprietary i PRODUCTS solutions. UK-based Symetri has been named an authorized i PRODUCTS Standard Reseller in the United Kingdom and Ireland. The company will offer i GET IT® and i CHECK IT™ for Autodesk Inventor.

Tata Technologies i PRODUCTS

Tata Technologies i PRODUCTS are a lineup of PLM, enterprise, manufacturing and training solutions that are efficient and secure. i PRODUCTS support data quality and integrity analysis, process quality, and knowledge management. The full lineup includes:

- i CHECK IT for Autodesk Inventor®
- i CHECK IT for CATIA®
- i COMPARE IT™
- i GET IT

“We continue to add to our network of authorized i PRODUCTS Resellers, at the same time we continue to improve the products themselves,” said Dan Miles, Tata Technologies Vice President – iPRODUCTS. “This results in wider availability of these solutions, as well as better and better solutions that drive innovation for our clients and for our partners’ clients.”

“Symetri is excited about the opportunity to be named a Standard Reseller of i PRODUCTS in the UK and Ireland,” said Colin Watson, Symetri Director – Business Development. “i CHECK IT for Inventor and i GET IT are ideal complements to our portfolio of Autodesk solutions and will increase the value-add that we can offer our clients by helping them achieve consistent modeling results while adhering to

company standards.”

Miles noted that Tata Technologies has been delivering engineering, PLM, enterprise, manufacturing and training solutions for more than two decades. “And that’s what sets us apart,” he said. “We don’t just look at the problem without thinking about how we can develop the solution.”

For more information on i GET IT and i CHECK IT, visit:

i GET IT

<http://www.myigetit.com>

i CHECK IT for Autodesk Inventor

<http://www.tatatechnologies.com/icheckitinventor>

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Tomorrow’s Engineers Take Charge of the Planet; SolidWorks Education Edition 2010-2011 Equips Students for Sustainable Design Careers

3 May 2010

[Dassault Systèmes SolidWorks Corp.](#) (DS SolidWorks) kicked off a new era of engineering education with the release of [SolidWorks® Education Edition 2010-2011](#), which includes new technology for designing sustainable products.

This technology, [SolidWorks Sustainability software](#), was originally designed for professional design teams. For the first time, it gives higher education students deep insight into the potentially significant environmental impact of the choices they will make as professional designers and engineers.

SolidWorks Education Edition 2010-2011 also includes all of the improvements in the newest commercial version of DS SolidWorks’ design software, [SolidWorks 2010](#), including [SolidWorks Simulation Premium](#), a comprehensive set of tools for simulation. It handles nonlinear and dynamic response as well as composite materials.

SolidWorks Sustainability software helps quantify the air, water, energy, and carbon footprint impact of CAD assemblies from raw material sourcing through manufacture, use, and disposal.

“Today’s engineering students welcome the challenge to innovate the new products and processes that will minimize the environmental degradation caused by human activity,” says Assistant Professor Solomon G. Diamond, PhD of Dartmouth’s [Thayer School of Engineering](#). “When students learn that their design decisions have a snowballing environmental impact over the life of a product, they want to know how to make better choices. DS SolidWorks has now delivered a tool that helps engineers make smart, sustainable design decisions with unprecedented simplicity.”

Hard decisions made easier

When designing a product, engineering students have traditionally focused on concerns like cost, mass, rigidity, and tensile strength. While these factors affect a product’s utility, SolidWorks Sustainability calculates equally important environmental values: the impact of an entire assembly in terms of raw material extraction, material processing, part manufacturing, assembly, use, and disposal, including transportation at every phase. SolidWorks Sustainability software includes a material selection tool that compares any assembly against a baseline design in real time for better decision making. The software also automatically generates customized reports of its sustainability analyses, helping make engineering

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decisions understandable to non-technical audiences.

“SolidWorks Sustainability software fills a long-recognized void by allowing quantified analyses of sustainability to be incorporated into design education without requiring students to conduct independent research projects,” said Mike McDermott, associate professor of mechanical engineering at [Texas A&M University](#). “Students can now assess their designs automatically, yet with insight into each variable, and make sound decisions that make a positive impact on the planet.”

SolidWorks Education Edition 2010-2011 is distributed via the host institution’s computer network. Any student, however, can individually purchase [SolidWorks Student Edition 2010-2011](#), which includes [SolidWorks SustainabilityXpress](#), software that helps users analyze the air, water, energy, and carbon impact of any single part.

New: The SolidWorks Student Access Initiative

Institutions that use SolidWorks software also have the ability to provide SolidWorks to students and educators outside the classroom and off campus through the new [SolidWorks Student Access Initiative](#). With SolidWorks on their laptops and home PCs, students can collaborate and complete their work whenever, wherever, and however it suits them.

Texas A&M is taking advantage of the program as part of an initiative providing SolidWorks access to 16,500 students. Students will now have SolidWorks software on their laptops and home PCs as well as on school-owned computers across a variety of disciplines – including petroleum, nuclear, mechanical, industrial, electrical, and biomedical engineering. All other schools at the university, including the college of science and veterinary medicine, will have SolidWorks, too.

By incorporating SolidWorks 2010’s improvements, SolidWorks Education Edition 2010-2011 includes broad new capabilities in modeling productivity, simulation, publishing, and data management. In addition, the education software comes with:

Free testing and (if one passes) certification as a [Certified SolidWorks Associate \(CSWA\)](#). This certification prepares students for the workplace, motivates them to continue learning, and proves they’re good candidates to work in the design and engineering fields.

An “Instructor’s Guide to Teaching SolidWorks” with lessons, PowerPoint presentations, assessments, and tips. For students, there is a companion “Student’s Guide to Learning SolidWorks.”

New tutorials and curricula covering design, modeling, visualization, and making STEM (science, technology, engineering, and math education) relevant to the student. New simulation tutorials include verification problems and international standards (NAFEMS Benchmarks) to help students ensure designs will work in the real world. (Through a partnership with the [STEM Academy](#), DS SolidWorks is introducing STEM-oriented sustainable design education to kindergartners. Continuing through high school, the instruction includes an emphasis on STEM-related careers for women and minorities.)

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WorkNC CAM Software is Still Number 1 in Japan

3 May 2010

For the fourth time, Sescoi’s WorkNC CAM software is the most popular programming system amongst Japanese die and mold makers, according to a survey just published by the Nikkan Kogyo newspaper. The daily publication focuses on business and industry, and its survey showed that WorkNC continues

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to hold the largest share of the Japanese die and mold CAM software market, with over three times more companies using WorkNC than the nearest non-Japanese CAM software competitor.

Asked about trading conditions, the survey showed that there is evidence of recovery for Japanese mold and die makers with over 30% of companies reporting an increase in orders, compared with just 4.9% the previous year, and with the most likely time to recovery seen as the third quarter of 2010.

Many companies plan to increase their volume of exports to overcome the uncertainty in the Japanese domestic market, so efficiency, quality and cost reduction will be important factors for success, and powerful CAM software will be an important enabler. The advances in the recently released WorkNC V20 Japanese version will help them achieve their goals. A new Global Roughing/Re-roughing routine eliminates duplicated machining paths, air cutting and unnecessary rapid moves, while a completely new toolpath combines Z-Level Finishing and Optimized Z-Level Finishing, eliminating duplicated passes, simplifying programming and improving the tool trajectory.

At a recent series of WorkNC users seminars, that brought together nearly 200 companies in 7 Japanese cities, the feedback from participants was that, among all the functions and features for which they value WorkNC highly, it is the reliability of the software's collision avoidance that is most appreciated. The seminar participants were in broad agreement that the new functions and enhancements in WorkNC V20 would enable them to further improve their operational efficiency.

Sescoi is delighted that its WorkNC CAM software is number 1 in Japan for the fourth time and is pushing forward with an ambitious development program that will maintain its leadership in the Japanese die and mold market. This includes providing its customers with software tools that make them ever more productive, such as the high speed WorkXPlore 3D CAD viewer, recently launched in this market. Via training and consultancy, SESCOI also wants to further build the skills of Japanese die and mold makers who have produced the most astonishing demonstration pieces using WorkNC CAM software. These include a kabuto samurai helmet and the award winning silver jacket which was gold prize winner in Mori Seiki's Cutting Dream Competition.

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ZWSOFT Announces Winners of ZWCAD Design Contest 2010

6 May 2010

ZWCAD Software Co., Ltd has announced the winners of its ZWCAD Design Contest 2010, a creative challenge for architects, engineers, designers and drafters from around the globe to use ZWCAD 2010 to design something they might expect to see in the year 2015. The contest and today's announcement of the winners are the conclusion of the initial launch of our ZWCAD 2010 promotion campaign, the world's forefront CAD program, available in 15 languages for its worldwide customer base.

The first place prize, a ZWCAD 2010 license and ipod Touch was won by Rajendran from India, for his 3D solid model house.

“Thank you ZWCAD Team for this great product, with the best quality and best price,” said Stanislav Slavov, one of our contest entrants from Bulgaria who was placed second in the Excellent Design category and won a ZWCAD 2010 license and ipod Nano.

All the contest entrants, including the top 6 Excellent Designs, top 2 Innovative designs, and top 5 popular designs, as well as the awarded prizes, can be viewed at

<http://cadcontest.zwcad.org/Default0.aspx>.

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Events News

CGTech to feature the Virtual Machining Gallery at MACH 2010

7 May 2010

CGTech will feature a continuous display of the 2010 VERICUT Virtual Machining Gallery on stand **5168 at MACH 2010**.

VERICUT is a global leading CNC Simulation software and the gallery features all types of CNC machine tools, including complex multi-axis machines from leading manufacturers including DMG, Mori Seiki, Mazak, Makino and Matsuura. The gallery also features examples of integration with leading CAM systems such as Catia V5, Siemens NX, Pro/E, MasterCAM, EdgeCAM, GibbsCAM, Delcam PowerMill, Missler TopSolidCAM and Open Mind HyperMill.

In addition to traditional machining applications the gallery also includes examples of simulation projects involving Parallel Kinematics, Robots, WaterJet cutting, riveting and composites.

Visitors to the CGTech stand 5168 will be offered the VERICUT Virtual Machining Gallery as a CD and the gallery can also be viewed on line at <http://www.cgtech.com/vmg>

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CimatronE and GibbsCAM Show Latest Versions at MetalTech Malaysia

5 May 2010

[Cimatron Limited](#) announced that the latest versions of both of its product lines, GibbsCAM 2010 and CimatronE 9.0, will be demonstrated at the Metaltech tradeshow in Malaysia.

Enhancements to the latest version of CimatronE include increased automation for mold design, a quoting application for die design and added flexibility in 5-Axis and High Speed Machining strategies. CimatronE now operates at 64-bits, making full use of available memory and allowing it to handle larger, more complex parts.

The new version of GibbsCAM includes major enhancements to 5-Axis Milling and 3D solids machining, as well as new plunge roughing. GibbsCAM 2010 is fully compatible with Windows 7 and can operate at 64 bits, allowing users to make full use of RAM and program larger, more complex parts.

GibbsCAM 2010 also features VoluMill; VoluMill high speed roughing maximizes material removal rate and steadies tool load, reducing cycle times and extending tool life. VoluMill works on all solid, surface, and wireframe models, and any combination of part and stock boundaries. It supports an unlimited number of islands, tapered walls, variable pocket depths, and variable island heights.

In addition, those who work with both of Cimatron Group's product lines will now be able to transfer parts from CimatronE to GibbsCAM in one easy click.

CimatronE will be displayed in **Saeilo's booth (Hall 3, Booth 3485)** and in **MyGrowTech's booth (Hall 2, Booth 2057)**. The **GibbsCAM product line** will be showcased in **MyGrowTech's booth**.

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Delcam to Show Metrology Range at MACH

5 May 2010

Delcam will demonstrate its complete range of metrology software, including the new, 2010 R2 version of its PowerINSPECT inspection software, on stand 4010 at the MACH exhibition to be held at the NEC, Birmingham, from 7th to 11th June. In addition to PowerINSPECT, Delcam offers programs to confirm the accuracy of machine tool set-ups, electronic fixturing systems to ensure CAM programs are aligned correctly with the part to be machined, and On-Machine Verification software to enable part accuracy to be checked before it leaves the machine.

PowerINSPECT combines the ability to work with all types of inspection device, including conventional CMMs, portable arms and optical devices, with a comprehensive range of routines for making simple measurements, for inspecting geometric features and for checking complex surfaces. The resulting reports present detailed information in easy-to-read formats that can be understood by all engineers, not just inspection specialists. The new release incorporates automatic surface inspection and the ability to use GD&T data from CATIA models, plus improvements to the handling of point cloud data and changes to the interface to make the software even easier to use.

Two recent options for PowerINSPECT will also be on show. PowerINSPECT PartAligner can be used with portable inspection equipment to simplify set-up operations for machine tools. It offers automated position compensation using an independent measuring device. Typically, this will be an inspection arm for medium-sized components or an optical device for very large parts or tooling. The measured position is then compared with the datum used in the CAM system to program the component. The results can be used to update a project in Delcam's PowerMILL CAM system by adjusting the datum position and orientation. Alternatively the data can be applied directly to change the offsets in the machine-tool control.

PowerINSPECT Tubing makes it easier to inspect pipework and tubing, especially when these items are part of a larger assembly. Specialist software is available for tubing inspection but this generally doesn't allow the measurement of other types of geometry, so two different and potentially incompatible systems may be required. PowerINSPECT Tubing allows the inspection of pipe geometry together with other components using a single software program on a wide range of devices.

NC-Checker is another recent addition to Delcam's family of metrology software. This allows companies to undertake in-process verification of the performance of a wide range of commonly-used machine tools. It provides a way to confirm the accuracy of the machine with standard probing equipment. NC-Checker can be used before machining starts to confirm that the equipment has been set up correctly and then applied during the production run to detect any movements out of tolerance that might have been caused, for example, by wear or temperature changes.

The final option, NC-PartLocator, is similar to PartAligner in that it gives the ability to adjust toolpaths to the actual position of the part, rather than having to ensure that the piece is in exactly the nominal location specified in the CAM system. However, it uses a probe in the machine tool to collect the data rather than a separate device. The benefits are similar in that adjustments can be made in the machine tool control much more quickly and easily than placing, and holding, the part in exactly the specified position, especially when producing large or heavy components. The same probe can be used to inspect the finished part using the PowerINSPECT option for On-Machine Verification.

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CIMdata PLM Industry Summary

Delcam's Aerospace Software and Services on Show at Farnborough

7 May 2010

Delcam will promote its wide range of software and services for the aerospace industry on the Midlands Aerospace Alliance stand at the Farnborough Air Show. At the Show, Delcam will demonstrate how it can help companies both large and small to meet the requirements of the highest levels of quality and consistency, plus cost-effective production and the shortest-possible delivery times.

Delcam systems have been used, at some stage, on virtually every major aircraft programme in recent years. The company's customers have undertaken projects in all the various areas that go towards producing a successful aircraft, from developing more fuel-efficient engines, to manufacturing airframe components more effectively, and even in designing more comfortable and more attractive interiors. They have worked on all scales of project, from the manufacture of components for UAVs and helicopters up to the production of engines and airframes for the largest passenger and transport aircraft.

Delcam also supports a large number of MRO operations. These companies use Delcam systems to enable the fast, efficient repair or replacement of damaged components. By minimising design and manufacturing times, while maintaining the highest levels of quality, repairs can be completed as quickly as possible, so minimising the lost operating time of the aircraft.

[Delcam](#) has been ranked by CIMdata as the world's largest specialist supplier of machining software for the past ten years. The company employs the largest development team in the CAM industry to develop a comprehensive range of systems for every type of machine tool, from simple lathes and 2D mills, up to the most sophisticated five-axis machining centres and multi-spindle, turn-mill equipment. However, Delcam also produces a complete portfolio of supporting software, for component design, tooling design, reverse engineering and inspection. All of the programs are available as stand-alone solutions to enhance existing systems or as part of a complete turn-key solution.

Delcam also offers a range of services from its Professional Services Group to help companies whose own engineering resource is needed to maintain its existing operations. The support given can vary from providing extra design and programming resources when existing staff are overloaded, through to developing completely new turn-key processes for the manufacture of novel designs.

The Group cooperates closely with its clients to enhance their existing design and manufacturing operations, usually by using a combination of Delcam's software to increase efficiency, improve quality and reduce delivery times. The Group's staff combine the technical and commercial skills needed to support customers in their drive to improve their productivity and profitability. They often work with a network of suppliers of related technology, including machine tools, cutting tools and inspection equipment, to ensure that a complete solution can be provided.

The Group also works closely with Delcam's in-house engineering workshop, which is equipped with production-scale machining and inspection equipment. As well as allowing thorough validation of all software before its release, this facility provides an ideal opportunity for companies to test new processes or to produce short runs of prototype parts without any disruption to their day-to-day operations.

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Easy5 2010 - What's New

May 2010

CIMdata PLM Industry Summary

Please join MSC.Software for a live webcast to learn about Easy5 2010.

Date: Monday, May 10th 2010

Time: 10:30 a.m. EDT or 8:30 p.m. EDT

Duration: 30 Minutes

Presented by: Anthony Gugino, Easy5 Product Marketing Manager,
Peter Kamber, Easy5 Product Development Manager

What's New in Easy5 2010

Join this webinar to learn about the advancements in multi-domain systems and controls modeling within Easy5 2010 that help engineers design complex products. You will also hear about specific applications and quantified benefits of new features.

New Features You Will Learn About:

- Improved and Extended Libraries... New Components! New Configurations!
 - o Thermal Hydraulics
 - o Gas Dynamics
 - o Multi-Phase Fluids
 - o General Purpose
- Model Data Update via External CSV File
- Watch List Improvements
- Increased Maximum Model Size
- Updated Compiler Support

Who Should Attend:

- Existing Easy5 Users
- Engineers Interested in Multi-Domain Systems and Controls Simulation
- Existing MSC Customers
- Existing MSC Customers with Masterkey and EALU

Following the webcast, you will be able to join in a live Q&A to have your specific questions answered.

REGISTER for the Webcast (Choose Time) >>

Date & Time:

May 10, 2010

7:30 AM - 8:00 AM Pacific

10:30 AM - 11:00 AM Eastern

4:30 PM - 5:00 PM Paris (GMT+02:00)

[Click Here](#)

Date & Time:

May 10, 2010

5:30 PM - 6:00 PM Pacific

8:30 PM - 9:00 PM Eastern

May 11, 2010

2:30 AM - 3:00 AM Paris (GMT+02:00)

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Elysium Inc., Kubotek USA and Lattice Technology Inc., Announce Product Development and Manufacturing Seminar in Manhattan Beach, CA, on May 12th 2010

3 May 2010

[Lattice Technology® Inc.](#), [Elysium Inc.](#) and Kubotek USA announced the next seminar in its series across the USA to help manufacturers improve productivity, efficiency and quality by using 3D data throughout the enterprise.

The free seminar will be held at the Manhattan Beach Marriot, CA. on May 12, 2010, and will discuss how to effectively manage 3D data through the design-to-manufacture process, delivering compelling payoffs to manufacturers in aerospace and defense manufacturing chains.

The event will feature keynote speaker Bob Deragisch, Manager, Enterprise Systems, Group IT Manager and Engineering Services Manager at Parker Aerospace. Bob will be discussing 3D CAD data translation and quality challenges that Parker Aerospace has faced, and the resolutions in place to improve ROI at this major aerospace sub-system supplier.

Lattice Technology Inc., Elysium Inc., and Kubotek USA each deliver key parts of a workflow which makes 3D data usable across the entire enterprise, including the exchange of data, verification of received data, and the ability to update data and then seamlessly manage engineering changes. Integration into design-to-manufacture channels allows 3D data to be used downstream, including process design, simulation and comprehensive documentation.

Attendees to this seminar will gain valuable insight to the issues they face every day:

- . Understanding where inefficiencies are occurring in manufacturing operation and how to address them using 3D data
- . Relieving bottlenecks in 3D data sharing, editing and reuse regardless of its source
- . Improving 3D product design quality and product time-to-market
- . Managing engineering changes faster and more efficiently
- . Streamlining the flow of relevant, timely information to other departments and suppliers
- . Eliminating errors, delays and scrap on the shop floor
- . Building seamlessly and affordably on existing 3D CAD seats, ERP and PLM installations

The seminar is scheduled at 8.00 am - 12.00 pm, Tuesday May 12, 2010 at the Manhattan Beach Marriott, 1400 Parkview Avenue, Manhattan Beach, California 90266. Continental breakfast will be provided. Find out more, and register for the event at: http://info.kubotekusa.com/3d-design-manhattan-beach/?utm_campaign=MB-Seminar-Link.

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Fishbowl Solutions is a Featured Presenter and Exhibitor at PTC/User World Event 2010

3 May 2010

Fishbowl Solutions, Inc., a software, services and consulting company delivering solutions for the PTC® Product Development System (PDS), will exhibit and present at PTC/User 2010 in Orlando, FL. The PTC/USER World Event 2010 is a conference for professionals who use PTC products and services, including Pro/ENGINEER® and Windchill®.

CIMdata PLM Industry Summary

Featured this year is a presentation by Ross Jessen, Fishbowl's Director of Engineering, on "*Achieving Pro/INTRALINK 3.x Folder Access Control under Windchill 9.x,*" at 1:00 p.m. on Tuesday, June 8th in Panzacola H3. Fishbowl will also showcase a number of solutions they have delivered to customers including implementations, migrations, upgrades, and automation services. Many of them leveraging their add-on components such as [linkTuner](#), [linkLoader](#), and [Data Clean Up Tools](#). To learn more about Fishbowl please visit: <http://www.fishbowl solutions.com/PTCSolutions/PTCSolutions.htm>.

Fishbowl will exhibit in booth 409. PTC/User runs June 6-9, 2010 and is taking place at the Rosen Shingle Creek Hotel in Orlando, FL. To learn more about the conference please visit: <http://www.ptcuser.org/2010/>.

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Geometric to Show CAMWorks® 2010 at EASTEC

4 May 2010

[Geometric](#) will showcase CAMWorks® 2010, the latest version of its solid-based CNC programming solution, at **Booth # 5454** at the EASTEC 2010 exposition, to be held at the Eastern States Exposition, West Springfield, Mass., from May 25 -27, 2010.

[CAMWorks](#) 2010 includes many improvements to multi-axis machining, which enable toolpath generation on increasingly complex part models. New controls have been added to simplify processing of impellers and blisks. Safely entering and retracting from the part has become more flexible and easier than previous versions.

In turning, the ability to define variable allowances along the feature provides more control, while at the same time reduces the time and complexity of programming. For turning and mill/turn machining involving irregular casting stock shapes, an STL file can now be used to represent the stock. While creating a more realistic simulation, this also simplifies the stock definition and results in a more efficient and predictable toolpath.

Visualization enhancements have been made to feature, tooling, and stock display. These changes offer a more realistic representation of the machining environment to simplify programming and improve productivity.

In addition, other features enable the NC programmer to machine parts faster and easier. The computation for machining time has been modified and updated to provide a more accurate estimate. This information can be used for costing and process planning purposes. Support for SQL Server Express has been added to improve performance in large scale deployments of CAMWorks.

CAMWorks 2010 supports SolidWorks 2009 and 2010, and CAMWorks Solids 2009 and 2010, running under 32- and 64-bit XP, Vista, and Windows 7.

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Last call to Save on Registration Fees for PTC/USER World Event 2010 Taking Place June 6-9 at the Shingle Creek Resort in Orlando, Florida

May 2010

Early Bird Deadline Ends Tomorrow MAY 7th. [REGISTER NOW](#)

CIMdata PLM Industry Summary

Where else can you have access to more than 300 technical sessions across all PTC solutions, 65 hands-on training workshops, 100 PTC and Partner booths in the exhibit hall, visionary keynotes & multiple networking events all under one roof for 3 days. [View the complete agenda.](#)

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Lectra to Present Latest Technology Innovations for Apparel Brands and Retailers at SPESA Expo 2010

4 May 2010

Lectra announced its participation in SPESA Expo 2010 held May 18-20, 2010 at the Georgia World Congress Center in Atlanta. During the exhibition, Lectra will unveil its latest fashion dedicated solutions and present attendees with the benefits of an integrated and seamless fashion platform for the creation, development, production and management of apparel collections.

Attendees who visit **Lectra at Booth 5339** at SPESA Expo 2010 will have the chance to experience the comprehensive scope of Lectra's offering from Lectra Fashion PLM -- the apparel dedicated PLM platform encompassing the entire design and development process -- all the way through to production with the Vector FX and MX cutting series, the company's range of cutting solutions from single-ply and matched fabric cutting to high-ply cutting of denim and automotive materials. In addition, Lectra will present software solutions for other soft goods markets like DesignConcept for automotive, furniture and composites, as well as Romans Cad[®] for footwear and accessories.

During the three day event, Lectra will present its latest version of Lectra Fashion PLM, the only extended enterprise solution designed for the fashion industry incorporating all steps in the product design and development process, including color specification, textile design, style design, merchandising and pattern engineering.

Lectra will showcase its professional textile and fashion design platform, Kaledo[®], which helps creative teams accelerate the design process while improving communication and collaboration across the supply chain. Sharing a common platform with Lectra Fashion PLM, Kaledo encourages artistic creativity, allowing for the design of unique prints, knits and weaves, while structuring the collection creation process and facilitating the exchange of information internal and external to the design environment.

Featuring Kaledo V2R2, Lectra will demonstrate how design and development teams can benefit from Lectra's partnership with X-Rite/Pantone via a direct connection with X-Rite's ColorMunki[™], which reads colors from physical samples directly into all Kaledo modules and allows access to the full range of Pantone color references.

Lectra will also present its pattern design and nesting solutions, Modaris[®] and Diamino[®], which allow for the creation, development, verification, industrialization and grading of patterns faster, at lower costs and with flawless quality, while letting you automatically generate markers that respect all fabric and garment constraints from the simplest to the most complex shapes.

For improved decision-making and cut-order planning, Optiplan[®] cutting room management software enables companies to take control of fabric stocks, as well as take into account the availability of raw materials across multiple locations. A true cutting-room control tower, Optiplan allows production managers to select the most efficient markers, propose alternate solutions, simulate costs and anticipate new production orders. From material management flow to marker selection, spreading and cutting, each decision is optimized to ensure the lowest costs and the most effective cutting plans possible.

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At the heart of Lectra's intelligent cutting room offer, the Vector[®] automated cutter achieves maximum productivity and material savings when connected with Lectra's planning, nesting and spreading solutions. The Vector provides productivity, flexibility and precision, adapted to all end products, including the most intricate lingerie models to the thickest materials such as denim.

3D Innovations

In addition to Lectra's global solution offer for the fashion and apparel industry, the company will be showcasing 3D solutions for design and industrialization for various industries from Apparel and Accessories to Automotive, Aeronautical, Furniture and other Industrial Fabric applications.

Modaris 3D Fit, the highest-performance virtual 3D prototyping solution, enables pattern makers, designers, developers and sales and marketing teams to simulate and visualize their models in 3D on a virtual mannequin, using the color motifs and fabrics (taking into account their mechanical behavior) originally created in 2D. With Modaris 3D Fit, the look and fit of a garment can be verified, along with a style and entire collection validated.

Romans Cad 3D Sketch for Footwear enables designers to create textured sketches directly onto a 3D digital last using an electronic pen and graphics tablet, without impeding creativity. The Romans Cad 3D Sketch module offers designers a very similar experience to traditional hand-drawing. Designers can produce sketches on a 3D last and create a virtual prototype to be used directly by the development center. The result is greater consistency between the sketch and finished model, which drastically reduces development times while increasing the number of realistic simulations for increased frequency of collection renewal.

DesignConcept is Lectra's 3D/2D conception and industrialization solution dedicated to advanced materials. Based on Lectra's solid experience in industrial manufacturing solutions, this application provides powerful tools to facilitate the analysis of product feasibility, finished product quality, and cost, thus enabling companies to make key decisions in the product development phase and thereby reduce time to market and minimize costs.

Hear Lectra Speak at SPESA EXPO 2010 Educational Programs and Special Events

Lectra executives and customers will deliver the following educational and testimonial presentations during the three day show:

Computer-Aided Design and Development Technologies - An Update (Session 209). Simon Poulton, Vice President of Strategic and Fashion PLM Sales, Lectra North America, will participate and discuss how the latest development in CAD technologies are allowing brands to better respond to the rapid generation of fresh design concepts and related production requirements. Presentation: Tuesday, May 18, 2010 from 2:45pm - 3:45pm.

Color and Trend Forecasting for Fashion (Session 211). Anastasia Charbin, Product Manager - Design Solutions, Lectra World Headquarters, and Laurie Pressman, Vice President Fashion, Home+Interiors, PANTONE, will present, along with others, on what is being done by apparel manufacturers to ensure correct and accurate color and trend forecasting at lightening fast speeds. Presentation: Tuesday, May 18, 2010 from 4:00pm - 5:00pm.

PLM - a User's Perspective (Session 301). Steve Lee, Vice President Corporate Development, Please Mum, will discuss his experience using Lectra technology on Wednesday, May 19, 2010 from 10:00am - 11:30am.

CIMdata PLM Industry Summary

For more information, admission and registration on the sessions, please visit www.spesaexpo.com.

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Lectra to Showcase Latest Fashion Solutions at Techno Mode 2010 in Montreal (Booth Number 11)

3 May 2010

Lectra announced its participation in Techno Mode Fashion Technology Expo, on Wednesday, May 5, 2010 at Ruby Foo's Hotel in Montreal. The event offers seminars on key IT issues, workshops from top solution providers for the fashion and apparel industry.

At the expo, Lectra will present Lectra Fashion PLM, the only extended enterprise solution designed for the fashion industry incorporating all steps in the product design and development process, including color specification, textile design, style design, merchandising and pattern engineering.

Lectra will also showcase its leading professional textile and fashion design platform, Kaledo® , which helps creative teams accelerate the design process while improving communication and collaboration across the supply chain. Sharing a common platform with Lectra Fashion PLM, Kaledo encourages artistic creativity, allowing for the design of unique prints, knits and weaves, while structuring the collection creation process and facilitating the exchange of information internal and external to the design environment.

Lectra will also provide an overview of their pattern-making solution, Modaris® , for creating, developing, verifying, industrializing, and grading patterns. Modaris can be integrated into any apparel company's development processes and covers all kinds of garments (women's wear, men's wear, children's wear, lingerie, swimwear, uniforms) from the simplest to the most complex shapes.

During this one day event, Simon Poulton, Lectra's Vice President of Sales, Strategic Fashion and PLM, will give a presentation on the necessity and importance of integrating the design and development processes within PLM solutions.

Title: "The Product Lifecycle Starts with Design - So Should its Management."

When: May 5, 2010 at 11am EDT, Ruby Foo's Hotel, Techno Mode Fashion Technology Expo

Seminar Description:

Nearly 60% of a product's life is spent in design and development; it is essential for the fashion companies to have complete visibility through the entire process from design to development and across the supply chain. The answer is PLM. Many brands and retailers have implemented PLM and have been successful in reducing their product development cycle time; however, traditional PLM doesn't incorporate all aspects related to the needs and demands of fashion. The most important part of the process -- the differentiator of the product, the essence of the brand -- is designs. Participants will learn how a comprehensive, fashion-dedicated PLM platform provides the ability to truly manage the entire design and development of a product's lifecycle without compromising creativity.

For more information, please visit www.lectra.com

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[NEi Software](#) will debut NEi Nastran V10 at SAMPE, a materials and processing technology conference being held in Seattle WA between May 18-20. Engineers will be on hand to demonstrate NEi Nastran V10 along with the suite of engineering software solutions offered by NEi Software. In addition, NEi

CIMdata PLM Industry Summary

Software will present a new white paper entitled "Simulating Fiber Metal Laminates" on May 20.

When & Where:

SAMPE 2010 Seattle, WA

May 18-20, 2010

Visit NEi Software at booth 1610

Washington State Convention Center

800 Convention Place

Seattle, WA 98101-2350

Presentation

May 20, 2010 at 8:25AM Session: Design & Analysis IV

FEA White Paper: "Simulating Fiber Metal Laminates"

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5 May 2010

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Presentation

May 20, 2010 at 8:25AM Session: Design & Analysis IV

FEA White Paper: "Simulating Fiber Metal Laminates"

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SAP Fosters Social Media Dialog With Newsroom and Blog Platform for SAPPHIRE® NOW

4 May 2010

In the spirit of social media connectivity that marks this year's SAPPHIRE® NOW event, [SAP AG](#) launched the [SAPPHIRE NOW social newsroom](#). Offering visitors an engaging source of insight and

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information, the newsroom will deliver immediate access to news, video, photos, coverage and commentary around the event.

On this site, leading into and at the event itself, SAP will post announcements, partner news and blog postings, as well as articles and commentary from reporters and bloggers around the world. Visitors can subscribe to the site's RSS, e-mail and Twitter feeds as a dedicated source of information and dialog around all the happenings at SAPPHIRE NOW.

With the SAPPHIRE NOW social newsroom, SAP Global Communications pilots the first of the combined newsrooms and blogging platforms that successively will replace the existing media topic rooms currently on the SAP.com press pages.

To view the SAPPHIRE NOW social newsroom, visit sapphirenow.blogs-sap.com. Join the SAPPHIRE NOW conversation via Twitter at [@SAPPHIRENOW](https://twitter.com/SAPPHIRENOW). Follow SAP on Twitter at [@sapnews](https://twitter.com/sapnews).

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Financial News

ANSYS Reports Strong Revenue and Earnings Growth for the First Quarter and Increases 2010 Outlook

6 May 2010

Highlights

- Revenue of \$136.1 million
- Non-GAAP diluted earnings per share of \$0.47 and GAAP diluted earnings per share of \$0.35
- Operating cash flows of \$59.7 million
- Non-GAAP operating profit margin of 48.7%; GAAP operating profit margin of 36.5%

[ANSYS, Inc.](#) announced over-performance against its outlook in both revenue and non-GAAP EPS for the first quarter 2010. Growth in the first quarter was spread across all major geographic regions and among a broad array of industries. The results are indicative of continued solid growth in the core business, complemented by the positive impact of the integration of the Ansoft operations, as well as maintenance renewal rates returning to pre-downturn levels.

"We are off to a strong start in 2010, as evidenced by our performance during the first quarter. We achieved first quarter highs in both revenue and earnings, and we're excited about the opportunities that lie ahead as ANSYS celebrates its 40th anniversary this year. As a leader in our industry, we remain focused on the overall direction and health of the business, while expanding our global markets and continuing to develop and deliver innovative simulation solutions to our customers. Our solid operating performance in the first quarter is a testimony to our belief that engineering simulation solutions remain a high priority for our expanding customer base even in a challenging economic environment. The business pressures on our customers to deliver innovative, high-quality products to the markets, with fewer resources, have never been greater. We believe our unique balance of technology leadership, global and diversified presence, solid business model and commitment to our vision positions us as a

CIMdata PLM Industry Summary

company for continued growth," stated Jim Cashman, ANSYS President and CEO.

ANSYS' first quarter financial results are presented below. The 2010 and 2009 non-GAAP results exclude the income statement effects of stock-based compensation and acquisition-related amortization of intangible assets. The 2009 non-GAAP results also exclude the impact of purchase accounting adjustments to deferred revenue. Non-GAAP and GAAP results reflect:

- Total non-GAAP and GAAP revenue of \$136.1 million in the first quarter of 2010 as compared to total non-GAAP revenue of \$121.4 million and total GAAP revenue of \$116.3 million in the first quarter of 2009;
- A non-GAAP operating profit margin of 48.7% in the first quarter of 2010 as compared to 46.1% in the first quarter of 2009; a GAAP operating profit margin of 36.5% in the first quarter of 2010 as compared to 29.9% in the first quarter of 2009;
- Non-GAAP net income of \$43.5 million in the first quarter of 2010 as compared to \$34.5 million in the first quarter of 2009; GAAP net income of \$32.4 million in the first quarter of 2010 as compared to GAAP net income of \$21.1 million in the first quarter of 2009; and
- Non-GAAP diluted earnings per share of \$0.47 in the first quarter of 2010 as compared to \$0.37 in the first quarter of 2009; GAAP diluted earnings per share of \$0.35 in the first quarter of 2010 as compared to GAAP diluted earnings per share of \$0.23 in the first quarter of 2009.

The Company's GAAP results reflect stock-based compensation charges of approximately \$4.5 million (\$3.6 million after tax) or \$0.04 diluted earnings per share for the first quarter of 2010.

This is an abbreviated press release. For the full release including financials and GAAP and Non-GAAP information click [HERE](#).

Management's Remaining 2010 Financial Outlook

The Company has provided its 2010 revenue and earnings per share guidance below. The earnings per share guidance is provided on both a GAAP basis and a non-GAAP basis. Non-GAAP diluted earnings per share excludes charges for stock-based compensation and acquisition-related amortization of intangible assets.

Second Quarter and Fiscal Year 2010 Guidance

The Company currently expects the following for the quarter ending June 30, 2010:

- Revenue in the range of \$135.0 - \$140.0 million
- GAAP diluted earnings per share of \$0.33 - \$0.36
- Non-GAAP diluted earnings per share of \$0.45 - \$0.48

The Company currently expects the following for the fiscal year ending December 31, 2010:

- Revenue in the range of \$560 - \$580 million
- GAAP diluted earnings per share of \$1.40 - \$1.54
- Non-GAAP diluted earnings per share of \$1.90 - \$2.00

These statements are forward-looking and actual results may differ materially. ANSYS is unable to predict the likely duration and severity of the current disruption in the domestic and global economies. Should these economic conditions continue to deteriorate further, it could result in ANSYS not meeting

CIMdata PLM Industry Summary

the guidance provided above and ANSYS' operating results and financial performance could be adversely affected. Non-GAAP diluted earnings per share is a supplemental financial measure and should not be considered as a substitute for, or superior to, diluted earnings per share determined in accordance with GAAP.

Conference Call Information

ANSYS will hold a conference call at 10:30 a.m. Eastern Time on May 6, 2010 to discuss first quarter results. The call will be recorded and a replay will be available approximately one hour after the call ends. The replay will be available for ten days by dialing 877-344-7529 (US), or 412-317-0088 (Canada and Int'l) and entering the passcode 437272. The archived webcast can be accessed, along with other financial information, on ANSYS' website at <http://investors.ansys.com>.

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Aspen Technology Announces Financial Results for the Third Quarter Fiscal Year 2010

6 May 2010

Aspen Technology, Inc. announced financial results for its third quarter of fiscal 2010, ended March 31, 2010.

Mark Fusco, Chief Executive Officer of AspenTech, said, “The positive momentum of AspenTech’s business continued during the third quarter. Product related bookings of approximately \$94 million were consistent with the level of our seasonally stronger second quarter due primarily to customer interest in moving to our new aspenONE licensing model, in addition to expanded usage across our customer base. On a fiscal year-to-date basis, the company’s license bookings are up approximately 10% compared to the comparable period in fiscal 2009, which we believe is a strong performance considering fiscal 2010 is the first year of our new aspenONE licensing model.”

Fusco added, “We are pleased with the company’s cash flow in the third quarter. We generated \$19.4 million in cash flows from operations, which enabled the company to grow its cash balance by nearly \$10 million at the same time secured borrowings were reduced by \$9.1 million. We are at the early stages of ramping the company’s subscription cash flow model and we are encouraged by our progress and long-term outlook.”

AspenTech’s total revenue of \$45.6 million decreased from \$71.3 million in the third quarter of the prior year, due primarily to the ratable revenue recognition associated with the company’s new aspenONE licensing model.

- Subscription revenue includes all revenue associated with the company’s new aspenONE licensing model. Subscription revenue was approximately \$4.0 million in the third quarter of fiscal 2010, an increase from \$1.2 million last quarter. No subscription revenue was recorded in the year ago period as the company’s new aspenONE licensing model was launched during the first quarter of fiscal 2010. Subscription revenue is recognized over the course of the multi-year agreement, and recognition begins when the first payment is due, which is typically 30 days after the contract is signed.
- Software revenue includes all non-subscription-based license revenue, including term-based contracts for point products as well as perpetual licenses. Software revenue was \$14.7 million in the third quarter of fiscal 2010, compared to \$41.1 million in the year ago period. In fiscal year 2010, software revenue related to term contracts is recognized over the contract term, generally as payments become due. In prior fiscal year periods, the company recognized term license revenue predominantly on an up-front

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basis, and the majority of license bookings were recognized as license revenue in the same period.

- Services & other revenue, which includes professional services, maintenance and other revenue, was \$26.9 million in the third quarter of fiscal 2010, a decrease compared to \$30.2 million in the year ago period.

For the quarter ended March 31, 2010, AspenTech reported a loss from operations of \$19.6 million due primarily to the ratable revenue recognition associated with the company's new aspenONE licensing model. For the quarter ended March 31, 2009, the company reported income from operations of \$4.5 million. Net loss was \$21.8 million for the third quarter of fiscal 2010, leading to net loss per basic and diluted share of \$0.24 compared to net income per diluted share of \$0.09 in the same period last year.

AspenTech had a cash balance of \$119.1 million at March 31, 2010, an increase of \$9.6 million from the end of the prior quarter. The company did not sell any installments receivable to raise cash during the third quarter of fiscal 2010 and it continued to reduce its secured borrowings balance, which was \$87.4 million at the end of the quarter, down \$9.1 million compared to \$96.5 million at the end of the second quarter of fiscal 2010.

Other Third Quarter Business Metrics

- The company closed 21 product related bookings of over \$1 million during the third quarter, and 39 product related bookings between \$250,000 and \$1 million.
- Average deal size for product related bookings over \$100,000 was \$807,000 in the third quarter.

Conference Call and Webcast

AspenTech will host a conference call and webcast today, May 6, at 5:00 p.m. (Eastern Time), to discuss the company's financial results for the third quarter of fiscal 2010 as well as the company's business outlook. A replay of the call will be archived on AspenTech's website at <http://www.aspentech.com/corporate/investor.cfm> and will also be available via telephone at (800) 642-1687 or (706) 645-9291, conference ID code 70000573 through May 13, 2010.

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Autodesk Extends Invitation to Join its First Quarter Fiscal 2011 Financial Results Conference Call Wednesday, May 19, 2:00 p.m. Pacific Time

3 May 2010

What: Autodesk, Inc. announced that it will broadcast its first quarter fiscal 2011 financial results conference call live via its website Wednesday, May 19, 2010, at 2:00 p.m. Pacific Time.

How: Autodesk will host a live webcast call at www.autodesk.com/investors. An audio replay webcast and podcast will also be available after 4:00 p.m. Pacific Time on their website at www.autodesk.com/investors.

Contact: For more information, please call Autodesk Investor Relations at 415-507-6705.

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Avatech Solutions to Report Fiscal 2010 Third Quarter Results on Monday, May 17, 2010

3 May 2010

Avatech Solutions, Inc. announced it will release its financial results for the three and nine month periods ended March 31, 2010, before the market opens on Monday, May 17, 2010. The Company has scheduled a conference call for 10:00 a.m. Eastern Daylight Time on the same day.

The dial-in numbers for the conference call are (866) 700-0133 (domestic) or (617) 213-8831 (international), and enter the passcode 91961274. A replay of the call will also be available through May 24, 2010, and can be accessed by dialing (888) 286-8010 (domestic) or (617) 801-6888 (international), and dialing the passcode 93175819.

A live webcast of the conference call will be available to all investors in the Investor Relations section of the Company's website, <http://www.avatech.com/> For those who cannot listen to the live broadcast, an audio replay of the call will also be available on the Company's site for a limited time.

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ESI Group Full-Year 2009/10 Results

28 April 2010

- A sharp 7.1% growth in sales
- Operating margin preserved at 6.1%
- Global headcount maintained
- Effective control of the Company's cost structure
- Alain de Rouvray, ESI Group Chairman and CEO, commented: *“Our robust performance in 2009/10 – a year with good revenue growth and limited declining profitability – reflects two strategic decisions that we voluntarily made at the start of the year: to maintain our staff numbers in Services and Sales and to continue investing in R&D so as to remain proactive and responsive in light of sustained customer demand. These decisions, coupled with careful control of our cost structure – and in spite of the grim economic conditions that weighed on the Services business at a time when the Company was implementing the Mindware integration – helped maintain our operating margin at an acceptable level, even if down from last year. Furthermore, the sharp rise in Licenses sales in the fourth quarter, along with additional sales to key accounts and growth in our installed base through broader adoption of our solutions, testify to the pertinence of our decisions ; and it vindicates the particularly strategic and innovative nature of our solutions, which our customers need to turn to in these difficult times. We are confident that 2010/11 will be another year of growth on the back of solid performance at the Licenses business, a gradual pick-up in the Services activity, and higher profit margins.”*
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- **Consolidated full-year results**

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In million €	FY 2009/10	FY 2008/09	Change (%)
	ended	ended	
	Jan. 31, 2010	Jan. 31, 2009	
Total sales	75.1	70.2	7.1%
	54.1	52.6	2.9%
- Licenses & Maintenance			
- Services	21.0	17.6	19.5%
Gross profit	49.9	50.2	
			-0.5%
% of sales	66.5%	71.5%	
Operating profit (EBIT)	4.6	5.4	
			-14%
% of sales	6.1%	7.7%	
Financial profit	-1.3	0.2	N/A
Attributable net profit	1.2	4.2	
			N/A
% of sales	1.6%	6.0%	

• *ended January 31* *Fiscal year*

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- **Growth in sales and an expansion of the Licenses installed base**

- As announced on March 15, 2010, consolidated full-year sales for 2009/10 rose 7.1% from the prior year, fuelled in large part by buoyant activity in the fourth quarter, especially at the Licenses business. The Licenses installed base expanded 6.4% over the year with a high repeat business rate of 85%. On the other hand, New Business and Services were hurt by the bleak economy and a wait-and-see attitude from customers in terms of both new software purchases and decisions to go ahead with new projects. At constant scope, sales at New Business and Services fell 7% and 11.3%, respectively. Mindware, acquired in December 2009, confirmed its excellent growth potential in high added-value services in Computational Fluid Dynamics. The subsidiary reported double-digit sales growth, which pushed ESI's actual Services revenue increase to 19.5%.

- **66.5% gross margin**

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- Amid the unstable economic climate, ESI made the following two important strategic decisions in early 2009:
 - - To continue investing in R&D so as to keep its differentiating, decisive strategic advantage. Thanks to its wide range of complementary products and services, ESI is the only player to offer an open, collaborative virtual prototyping solution for use in many industries, that can assess the performance and manufacturability of product components from end to end – before the first real prototype is even built. ESI continued to roll out its End-to-End Virtual Prototyping™ system among key account customers in 2009 despite the challenging economic conditions; the Company's ten largest customers accounted for 36% of 2009/10 sales, up from 29% in 2008/09;
 - - To maintain staff numbers based on:
 - 1) our customers' merely postponing several projects and not cancelling them (to date), necessitating ongoing technical and sales efforts; and
 - 2) the highly specialized knowledge of our employees and their experience with ESI's products and skills.
- The resulting increase in the Company's cost of sales coupled with a change in the product mix during the year caused ESI's gross profit to slip 0.5% relative to 2008/09, giving a gross margin of 66.5%.
- **Effective control of the cost structure and greater productivity**
- The fact that ESI's operating expenses rose a slight 1.1% against a 7.1% jump in sales reflects the Company's ability to effectively control its cost structure. Despite the 12.5% increase in staff resulting from the Mindware integration and the opening of a near-shore center in Tunisia, the Company's average payroll expense fell 3% thanks to a gradual transition to countries with low-cost labor. In terms of operating expenses, R&D expenses totaled 16.7% of sales in 2009/10, compared with 17.5% in 2008/09 – a modest 2% increase – while sales and marketing expenses remained steady. General and administrative expenses increased 1.8%, mainly as a result of the Mindware integration. The operating profit for 2009/10 came in at €4.6 million, pressured by the decline in gross profit, to give an operating margin of 6.1% (vs. 7.7% in 2008/09).
- **Net profit dented by unfavorable exchange rates and a non-recurring increase in income tax**

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- After accounting for foreign exchange losses on the Company's balance sheet due to unfavorable movements in exchange rates (especially in the South Korean won), and €0.73 million of interest expenses (unchanged from last year), the Company generated a financial loss of €1.3 million, against a gain of €0.2 million in 2008/09. After further taking into account the Company's income tax expense, which exceptionally rose €0.8 million in 2009/10 due primarily to litigation in Asia, ESI's net profit amounted to €1.2 million, compared with €4.2 million the prior year.
- The Company had €11.2 million of available cash on hand at the balance sheet date, and a long term debt-to-equity ratio of a very low 14.0%.

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- **2009 Highlights**

- **Stronger installed base of key accounts and ongoing roll-out of the End-to-End Virtual Prototyping™ system**
- ESI's performance in 2009/10 illustrates the solid resilience of its business amid the deteriorating economic climate. Despite these strong headwinds, the Company's sales expanded significantly, fuelled largely by a jump in sales at the Licenses business in the fourth quarter related to renewals and to new software to existing customers. ESI also bolstered its presence among key accounts thanks to the high added-value of its solutions, which turn into strategic advantages in the current competitive environment. The Company continued rolling out its End-to-End Virtual Prototyping™ system successfully to major corporations and long time key customers like Volkswagen and Renault-Nissan Groups.
-
- **Greater regional and industry diversification**
- The regional breakdown of ESI's sales at end-January 2010 was as follows: 22% in the US; 45% in Europe; and 33% in Asia (against 16%, 49%, and 35%, respectively, a year earlier). This more balanced breakdown underscores the Company's international presence, credibility, and attractiveness. In the US, ESI expanded sales to key accounts in its traditional automobile industry, as well as in innovative industries such as electronics through Applied Materials, energy through General Electric, aerospace through Boeing and NASA, and defense through General Dynamics Land Systems. ESI's overall industry diversification also improved; sales at constant scope to the automobile industry accounted for 40% of total revenue in 2009/10, down from 43% the prior year, and sales to the energy and electronics industry accounted for 12% in

CIMdata PLM Industry Summary

2009/10 vs. 9% the prior year. The percentages of other industries, such as aerospace, defense, and heavy equipment, remained stable.

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- **Confirmation of the successful Mindware integration**
- Mindware generated double-digit sales growth in 2009/10, an especially remarkable achievement considering that the subsidiary is in the Services business and its customers are mainly US auto makers. This robust performance highlights the pertinence of Mindware's strategic positioning – since it was able to receive innovative projects from car manufacturers with government funding – as well as ESI's proven experience to complete acquisitions successfully.

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Magma Schedules Fourth Quarter and Fiscal 2010 Earnings Call and Webcast for May 27, 2010

6 May 2010

What: Magma® Design Automation Inc. will conduct a live webcast and conference call to review financial results for its fourth quarter and fiscal year ended May 2, 2010.

When: The webcast and conference call will be Thursday, May 27, 2010, at 2 p.m. PDT. Magma will release fourth-quarter and full-year financial results after Nasdaq trading closes on May 27, 2010.

Who: Rajeev Madhavan, chief executive officer; Roy E. Jewell, president and chief operating officer; and Peter S. Teshima, chief financial officer, will host the call.

Webcast: The live webcast will be available online at <http://investor.magma-da.com/events.cfm>. A replay of the webcast will be available on Magma's website through June 3, 2010.

Phone: Listen to the live call by telephone at the numbers below:

U.S. & Canada: (877) 303-3205

Elsewhere: (678) 894-3026

A telephone replay will be available beginning at 5 p.m. PDT on May 27, 2010 until 11:59 p.m.

PDT on June 3, 2010 at the numbers below:

U.S. & Canada: (800) 642-1687, code #73237755

Elsewhere: (706) 645-9291, code #73237755

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Nemetschek Increases Revenue and Earnings

30 April 2010

Nemetschek AG started off well in fiscal year 2010. In the first quarter the revenues in the group increased by 6 percent from 33.6 million euros to 35.4 million euros. The EBITDA increased by 15

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percent to 8.3 million euros (7.3 million euros in the previous year). The net income increased by more than 50 % to 3.6 million euros (2.3 million euros in 2009). The cash flow from ordinary activities amounted to 12.9 million euros after 9.5 million euros in the first quarter of 2009.

Licence revenues in particular have increased again significantly for the first time – by 10 percent from 15.8 million euros to 17.4 million euros. Revenues from maintenance contracts improved by 3 percent to 15.7 million euros (previous year: 15.3 million euros). The Nemetschek Group's revenues abroad also increased: they went up by 8 percent to 21 million euros (19.6 million euros in the previous year). The revenues in Germany amounted to 14.3 million euros – a plus of 3 percent in comparison with the same period in the previous year (14 million euros).

The Design and Multimedia business units in particular managed to grow. In the Design segment revenues increased by 5 percent to 28.9 million euros. The Multimedia segment even managed to improve its sales revenues by 27 percent to 2.3 million euros – up from 1.8 million euros in 2009. With revenues of 3.2 million euros the Build unit succeeded in maintaining the high revenue level achieved in the same quarter last year (3.3 million euros), and with revenues of 1.0 million euros the Manage business unit also achieved sales revenues at last year's level.

EBITDA margin of 24 percent

As a result of the increase in revenues and the ongoing strict cost management the group achieved an EBITDA of 8.3 million euros in the first quarter of 2010, after 7.3 million euros in the previous year. This is equivalent to an operating margin of 24 percent, after 22 percent in the first quarter of 2009. The operating expenses dropped once again slightly from 30.3 million euros to 30.1 million euros. The operating profit (EBIT) amounted to almost 6 million euros, after 4.8 million euros in the first quarter of 2009; the net income was 3.6 million euros, after 2.3 million euros. The earnings per share (consolidated shares, basic) thus amount to 0.35 euros, after 0.24 euros in the same quarter of the previous year.

The positive result of the first three months of 2010 is also reflected in the cash flow: the cash flow from operating activities increased from 9.5 million euros in 2009 to 12.9 million euros. The cash flow from investment activities amounted to -1.0 million euros, after -0.5 million euros in the same quarter of the previous year. Nemetschek's free cash flow in the first quarter of 2010 thus amounted to almost 12 million euros.

Compared to December 31, 2009, the Nemetschek Group's liquid assets increased by 11.9 million euros to 34.8 million euros. These are now set against liabilities of 32.3 million euros from the financing of the Graphisoft acquisition. "This means that the group is free of net debt since the first quarter of 2010", emphasized Ernst Homolka, CEO, Nemetschek AG. Nemetschek AG's equity ratio is 49 percent.

Outlook consolidated

"The start to the new fiscal year was successful, but prudence is still required", said Homolka. He added that there were still question marks surrounding the economic development and the growth outlooks for the most important markets were cautious. The planned growth in revenue throughout the group of between three and five percent was thus realistic from today's perspective. The company continues to count on a recovery of license sales, primarily in the non-German markets.

"On balance, higher sales revenues will also have a positive effect on earnings, as the non-sales-dependent costs are largely set to remain stable", said Homolka. Furthermore, the interest expense for the reduction in liabilities from the Graphisoft acquisition will continue to fall and the net income will increase as a result.

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Synopsys Announces Earnings Release Date and Conference Call for the Second Quarter Fiscal Year 2010

5 May 2010

Synopsys, Inc. announced it will report results for the second quarter fiscal year 2010 on Wednesday, May 19, 2010, after the market close.

A conference call to review the results will begin at 2 p.m. PT (5 p.m. ET) and will be hosted by Aart de Geus, chairman and chief executive officer, and Brian Beattie, chief financial officer.

Financial and other statistical information to be discussed on this conference call will be available on the corporate website at <http://www.synopsys.com/> immediately before the call. A live webcast will also be available on this site. Participants should access the live webcast at least 10 minutes prior to the start of the call. A webcast replay can be accessed on the corporate website beginning Wednesday, May 19, 2010, at approximately 5:30 p.m. PT. The replay will remain available until Synopsys announces its third quarter fiscal year 2010 results in August 2010. In addition, a dial-up replay of the conference call will be available beginning May 19, 2010 at 4:00 p.m. PT, ending on June 2, 2010 at midnight. The replay telephone number is USA (800) 475-6701, and International (320) 365-3844, Access Code: 156545.

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Upcoming Financial Results Conference Calls

Company	Date	Time	Dial In	Webcast
Autodesk, Inc.	May 19, 2010	2 p.m. PT	No	http://investors.autodesk.com/phoenix.zhtml?c=117861&p=irol-irhome
Avatech Solutions	May 17, 2010	10 a.m. ET	(866) 700-0133 (domestic); (617) 213-8831 (international); passcode 91961274	http://phx.corporate-ir.net/phoenix.zhtml?c=145010&p=irol-IRHome
Magma Design Automation	May 27, 2010	2 p.m. PDT	U.S. & Canada: (877) 303-3205 Elsewhere: (678) 894-3026	http://investor.magma-da.com/events.cfm
Synopsys, Inc.	May 19, 2010	2 p.m. PT	replay USA (800) 475-6701; International (320) 365-3844, Access Code: 156545.	http://www.synopsys.com/

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Implementation Investments

Acer Deploys Product Lifecycle Management System to Improve Product Development Flexibility

May 2010

Acer, the second largest personal computer and notebook brand in the world, deployed Agile PLM to improve product development flexibility.

“The past few years have seen significant changes at Acer with a series of mergers. Oracle’s Agile PLM provided the solid foundation that ensured we could accommodate these changes. The system saved us development time and can be easily adjusted to meet new business demands.” – Yang Tien Ming, Director, PLM/SCM Application, Division of Global IT Unit, Acer Inc.

Read about it on the PLM Customer Showcase here:

<http://www.oracle.com/customers/snapshots/acer-agile-plm-snapshot.pdf>

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Couture Designer Label - Rajesh Pratap selects WFX On-Demand

20 April 2010

Layap Hignis – Manufacturing arm of India based couture Designer Rajesh Pratap Singh, selected WFX as technology partner to streamline manufacturing and supply chain.

Layap Hignis is using WFX web-based ERP On-Demand for managing their complete manufacturing life-cycle from budgeting, material planning, procurement, inventory management, production planning, production and export.

“WFX Web ERP Software helps us control our input cost, automatically budgets material purchases and manages our Production. With WFX, we expect to cut our cost of production and their approach to user training has ensured our users get the most of the application.”

Ms. Sapna, MD, Layap Hignis

WFX offers On-Demand Product Development Software – Web PLM and Web PDM – for the Fashion and Apparel Industry. More information is available at <http://www.wfxondemand.com>.

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Delcam’s FeatureCAM Gives Faster Programming and More Efficient Machining

4 May 2010

Faster programming and more efficient machining with [Delcam](#)’s FeatureCAM feature-based CAM software has helped Jonathon Shults of SilencerCo to take on, and beat, larger, more established competitors with his company’s advanced silencer designs.

Mr. Shults, together with his partner Joshua Waldron, saw a very large potential market for top-grade silencers with few competitors. They anticipated a successful future against competitors that are typically large corporations which, by the very nature of their size, innovate slowly and take a long time to bring new products to the market.

SilencerCo, which is based in West Valley City, Utah, launched its first commercial product, the

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22Sparrow silencer, less than two years ago. As well as having a unique easy-clean design, each component is made from aerospace-quality aluminium with hard-coat anodizing for maximum durability.

The company followed this with a second design, the Osprey. This took just three months from conception to production. “SilencerCo can bring products to market so quickly because we do the engineering, the research, the testing and the manufacturing all in-house,” Mr. Shults said. “Our competitors have R&D staff but then they take their prototype products to outside shops for machining. This takes a substantial amount of time, as there are often several iterations of a product before it goes to market.”

The philosophy at SilencerCo is to use only best-in-class machinery and software. “In order to manufacture the highest-quality products and take them from concept to production in the shortest amount of time, we only purchase the best equipment to run our business,” claimed Mr. Shults. “One of our most important purchases was our FeatureCAM software.”

When the company started up, Mr. Shults was using competitive software. He found that “It was really buggy for our mill-turn requirements and, though we could simulate a part, if there were any errors, the post-processor wouldn’t run. When I saw the FeatureCAM demonstration, I knew it was the package we needed and I returned our existing software to the supplier for a refund.”

When asked “Why do you like FeatureCAM?” Mr Shults’ response was simple – “because FeatureCAM will do what you tell it to!”

“FeatureCAM’s feature recognition has made it possible to program several prototypes in a day whereas before it could take a day to program one prototype,” he explained. “It has also enabled us to optimise the operations once we go into production to cut down on our machine time. FeatureCAM is easy to use – I can modify a post myself and I can do special coding for our products very easily. This was really appealing to me.”

“As a new company, good service and support is of key importance,” Mr. Shults added. “Delcam provides both and I don’t think that is just because we are close to Salt Lake City where the software is developed. Even more important, we want a supplier that does what it says it will do, with products that do what they say they will do. All SilencerCo’s products live up to this standard and we expect the same from our suppliers. We get it from Delcam.”

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Deutsche Blisterunion Selects Aras Enterprise Open Source PLM for Automated Product Release Process and Electronic Document Management

6 May 2010

[Aras®](#) announced that the Deutsche Blisterunion (DBU), an association of blister pharmacies, regional operating blister centers and industrial companies providing Blister Packaging of drugs for the individual patient, has selected the Aras PLM software suite to automate and streamline its document control and product release process and eliminate the use of paper documents completely.

Blister Packaging of medications is a revolutionary concept in the reading, packaging and distribution of pharmaceuticals. Blister Packaging eliminates bulk bottles of pills and tablets in lieu of blister packs of individual daily doses of a medication and detailed instructions on when and how to take the product. The automated assembly and blister packaging of tablets dramatically reduces dosage and medication

errors and provides time savings and other conveniences for consumers, hospitals, retirement homes and other institutions.

Aras will drive the entire document control and release process for the production of patient-individual blister packs. The Aras Innovator Signature Connector, developed by Aras partner DataSquare, will enable DBU to document the release process with a qualified electronic signature, saving time, eliminating paper-based forms and manual entry, and ensuring that all protocols are digitally signed and archived in a legally secure and compliant manner.

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ENI Saipem Standardizes on Intergraph® SmartPlant® Enterprise Engineering and Design Solutions Suite

4 May 2010

ENI Saipem S.p.A. will standardize on the [Intergraph® SmartPlant® Enterprise](#) engineering solutions suite, including Smart 3D, Intergraph's next-generation 3D design software to further increase productivity and cost savings and to accelerate project schedules.

An Intergraph customer for 20 years, Saipem experienced significant benefits and productivity gains using Intergraph's plant design and information management software solutions. Saipem will now expand its use of these solutions, using Smart 3D as its new standard on a worldwide basis to enable complete integration in production within its onshore, offshore and drilling divisions and help the company maintain a competitive advantage in the global market. Smart 3D is available for both- onshore plant design (SmartPlant 3D) and offshore and ship design (SmartMarine 3D). Smart 3D is the industry's most advanced, most productive next-generation 3D design system on the market offering numerous unique capabilities including automated, rule-based design. Customers using Smart 3D typically report 20- to 35-percent increases in productivity.

SmartPlant Enterprise is an integrated solutions suite that provides full design, construction, materials and engineering data management capabilities needed for the creation, safe operation and maintenance, and capital Project Life Cycle Management (cPLM) of process, power and marine (offshore and shipbuilding) projects.

To review and achieve optimum production processes, Saipem recently started its Production Data Integration (PDI) program, a strategic initiative which specifies the usage of the fully integrated SmartPlant Enterprise suite for the design, procurement and construction of all new projects. The program encompasses all SmartPlant Enterprise solutions, including the SmartPlant Foundation and document management database, to interface with Saipem's in-house applications.

About Saipem S.p.A.

Following the acquisition of Snamprogetti, the [Saipem Group](#) organization, while providing many different kinds of services - including specialized services and maintenance, modification and operations - has been rationalized into three global business units: Onshore, Offshore Drilling. It has a competitive position for the provision of EPIC/EPC services to the oil industry both onshore and offshore; with a particular focus on the toughest and most technologically challenging projects - activities in remote areas, deepwater, gas, and difficult oil. Its drilling services continue to be distinctive, operating in many of the oil & gas industry's 'hotspots', frequently in synergy with the Group's onshore and offshore activities. The new Group is a global contractor, with strong local presence in strategic and emerging

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areas such as West Africa and FSU, Central Asia, Middle East, North Africa and South East Asia.

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Indochine Goes Live With 200 Users In 6 Weeks

4 May 2010

Indochine Textiles, a 500 employee strong Apparel Trading and Sourcing company based in China has gone live on WFX Web Based software for fashion and apparel. Indochine is a sourcing partner for UK based retail chain New Look and has offices spread over China, Australia, India, Bangladesh and Vietnam.

With WFX's rapid implementation methodology, 200 Indochine users have gone live after a short 6 week implementation and training process. Further roll out to an additional 300 users will take place across other global offices simultaneously over the next 4 weeks.

Indochine signed on to WFX in order to streamline its global operations under a single web-based software to enable a single workflow system across areas of style management, product development and sampling, order management, production management and company wide information reporting. With WFX, Indochine is also connecting on-line with its vendors and Customers on the same platform to tightly integrate its supply chain. WFX is enabling Indochine with quicker time to market and giving both them and their customers' real time visibility for fast paced decision making.

WFX is offers On-Demand Product Development Software – Web PLM and Web PDM – for the Fashion and Apparel Industry. More information is available at <http://www.wfxondemand.com>.

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KLH Engineers Earns Autodesk BIM Experience Award for Comprehensive BIM Approach

6 May 2010

Autodesk, Inc. announced that [Kohrs Lonnemann Heil Engineers \(KLH Engineers\)](#) has received an [Autodesk BIM Experience Award](#) for its early adoption and application of Building Information Modeling (BIM) for more than 35 new construction and renovation projects representing a total construction value of nearly \$400 million.

The award recognizes the mechanical, electrical and plumbing (MEP) engineering firm for its exemplary use of [Autodesk Revit MEP](#), [Autodesk 3ds Max Design](#), [Autodesk Navisworks](#), and [Autodesk Buzzsaw](#) software for BIM, along with the [Autodesk Green Building Studio](#) web service. The firm is also being honored for its support of [integrated project delivery](#) (IPD) and efforts to promote BIM through educational programs for its clients, architectural partners, construction associates and industry organizations, serving as a pioneer in their industry within the BIM and IPD movement.

“Since 2006, our team has used BIM and Revit MEP to better serve our clients and improve our overall design processes and efficiency,” said Jeff Millard, principal at KLH Engineers. “We recognized the potential client benefits of using Revit MEP for BIM early on and felt strongly enough about it to adopt a new way of doing business. By doing so, we have placed our firm ahead of our competition.”

Large-Scale Library Renovation Showed Value of BIM Process

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One of the firm's first BIM projects was the \$12.5-million renovation of the Klau Library at Ohio's Hebrew Union College. The library, home to the second largest Hebraic text collection outside of Jerusalem, includes a vast collection of rare books, some more than a thousand years old. The project entailed the renovation of an existing five-story library and the construction of a new addition that includes stacks and a viewing area for the rare books, as well as conference and office spaces.

All the new mechanical systems needed to fit within the existing structure of the old library and tie into the new geothermal well field. The project team — including the architect, structural engineer, KLH Engineers, and the construction manager — used an integrated project delivery approach facilitated by Autodesk BIM software to coordinate their designs, expedite the construction schedule and return the collection to its permanent location as quickly as possible.

To protect its rare books, the library building requires precise humidity and temperature control. KLH Engineers used the intelligent information in the Autodesk Revit MEP model to conduct energy analysis and develop an optimal design that satisfies the book-preservation needs as well as the client's requirement for energy efficiency — a geothermal mechanical system that will help reduce energy and operating costs by an estimated 40 percent.

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Secure Electronic Medical Records Come to the iPhone and iPad, Courtesy of Dassault Systemes and echoBase Partnership

6 May 2010

[Dassault Systèmes](#) (DS) announced a partnership with application developer [echoBase, Inc.](#), marking DS's entry into the electronic medical records market. echoBase's Resonate iPhone application for doctors, hospitals, pharmacies and other healthcare providers will leverage Dassault Systèmes' ENOVIA V6 online collaboration and data management solution to deliver portability, availability and security of healthcare data. This approach will help ensure a consistent patient experience, no matter which doctor or provider they are scheduled to see.

As hospital back office information systems continue to evolve and improve, ENOVIA, coupled with Resonate, gives healthcare providers a single, secure user interface to patient records distributed across multiple IT systems, including: practice management and revenue cycle management solutions, patient tracking and resource scheduling databases and numerous other systems widely used in the healthcare industry. By leveraging ENOVIA as the integration and communication gateway to the evolving Nationwide Health Information Network (NHIN), healthcare providers will be able to manage future upgrades to back office infrastructure while also securely accessing patient information through an intuitive iPhone application that can be downloaded on the App Store.

“The adoption of the iPhone and other mobile devices in the healthcare industry is just the latest example of how technology is creating greater transparency and an improved experience for consumers when dealing with service providers of all kinds. As a result, we see this as a natural use of ENOVIA V6's data management and federation capabilities,” said Michel Tellier, CEO, ENOVIA, Dassault Systèmes. “Based on its experience in industries like aerospace and defense, ENOVIA has a strong track record of developing solutions that provide portability, security, and availability for classified data in Department of Defense programs. Dassault Systèmes and echoBase's Resonate are now leveraging these

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same IP security and online collaboration strengths to address the need for greater portability while maintaining security regarding electronic healthcare data management.”

echoBase’s Resonate application improves both the patient experience and patient safety by providing physicians with immediate access to the patient’s chart and offering a flexible and intuitive interface for generating encounter documentation. This mobile iPhone application significantly reduces the 30-50 percent of the doctor’s time spent entering data, freeing him/her up to address more important patient needs.

“We are leveraging the same data federation and security capabilities that the aerospace and defense industry has been using on Department of Defense programs for decades,” said Brent J Miller, CEO and co-founder, echoBase. “Partnering with the leader in product data management brings mobility, confidentiality and connectivity to what I like to call ‘Patient Data Management.’”

echoBase already has plans for the newly introduced Apple iPad. Because of the larger display and the longer lasting battery, the iPad will act as a companion device to the iPhone for clinicians, enabling a richer user interface and various other features for clinicians. The device’s built-in microphone and speaker allow notes to be dictated just as they are with the iPhone app, and a wireless keyboard in the exam room can be paired with the iPad to speed up typing if the doctor wishes to enter notes manually.

echoBase and Dassault Systèmes are actively engaged with several large medical research hospitals and universities, as well as being operative members of the North Carolina Healthcare Information and Communications Alliance (NCHICA), focused on secure, portable electronic healthcare data management within the NHIN.

About echoBase

echoBase is committed to improving the healthcare experience for both doctors and patients. Directed by practicing physicians along with hospital and private practice management personnel, echoBase leverages mobile, security, and integration technologies in their Resonate patient data management product in order to reduce the clerical time and effort required of clinicians, allowing them to focus on delivering world class care to patients. echoBase is a member of the North Carolina Healthcare Information and Communications Alliance (NCHICA), a nationally recognized nonprofit consortium dedicated to improving health and care by accelerating adoption of information technology and enabling policies, and is an active participant in the NCHICA Privacy and Security Workgroup. echoBase is the exclusive provider of patient data management solutions on the ENOVIA platform. For more information, visit <http://www.echobasesoftware.com>

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Sogeti High Tech GmbH Multiplies Number of HyperWorks Seats by Almost Factor Five

3 May 2010

[Altair Engineering Inc.](#) announced that [Sogeti High Tech GmbH](#), Germany, an engineering service and consulting provider for the aerospace, automotive, energy, defence, and transport sectors, has massively increased its use of HyperWorks and made the suite its standard computer-aided engineering (CAE) platform.

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Sogeti High Tech GmbH is using HyperMesh and HyperView, the pre- and post-processing solutions of the HyperWorks suite, OptiStruct for optimization tasks and for the design and optimization of composite components, and partner products included in the HyperWorks Partner Alliance program for fatigue and process simulation. HyperMesh replaces Sogeti High Tech GmbH's existing solution for model meshing as it offers improved usability and more functionality at the same time. All tools are applied to projects in the aerospace, rail and defence industries and for the internal test and research of new materials.

"We were seeking a one tool solution to enable process oriented work, which is exactly what HyperWorks offered," said Carlos Ribeiro, business group manager, Analytical Numerical Simulation, Sogeti High Tech GmbH. "We started off with HyperMesh, which I consider one of the best meshing and pre-processing environments available on the market because it is fast, efficient, and offers an open platform that supports our development processes. Additionally, the other products, which we can access via the HyperWorks Partner Alliance, help us in our everyday work."

"I am very pleased to see Sogeti High Tech GmbH select HyperWorks as its standard CAE platform," said Dr. Detlef Schneider, managing director of Altair Engineering GmbH. "HyperWorks and the HyperWorks Partner Alliance meet the needs of engineering service providers by offering them the flexibility and efficiency their competitive market requires. Our customers recognize the benefits of our open architecture philosophy and our commitment to supply an excellent return on investment across all our products and services. We provide this flexibility and efficiency through the unique HyperWorks licensing system, which diversifies our offerings from our competitors."

"In our business it is crucial to use the software environments our customers require us to use," added Francis Gilly, Business unit manager "Technology", Sogeti High Tech GmbH. "HyperWorks offers an open platform which can be used with any solver our customers require. It also gives us access to a broad range of best-in-class CAE tools, with just one license without additional costs. This helps us to be as flexible and efficient in our consultancy work as our customers expect us to be, while consolidating our software investments. This provides us with an important competitive advantage."

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University of Pittsburgh Swanson School of Engineering Deploys ANSYS Software, Arming Students for the Real World

3 May 2010

The University of Pittsburgh's (Pitt) Swanson School of Engineering has deployed software from ANSYS, Inc., providing its engineering faculty and students access to world-class simulation tools. Pitt has licensed ANSYS Academic™ and Ansoft Academic™ product bundles that include tools for classroom demonstrations and hands-on instruction as well as sophisticated products that provide the unlimited numerical capabilities necessary for doctoral and post-doctoral work.

ANSYS Academic product bundles provide universities access to all the features and capabilities available in its industry-standard engineering simulation tools in a value-added, scalable manner that meets the needs of diverse users. Not only can Pitt users access the leading simulation capabilities in individual engineering disciplines -- structural mechanics, electromagnetics, thermal analysis or fluid dynamics -- but they can take advantage of the technology's multiphysics capabilities to solve complex problems and perform multi-scale engineering simulations. ANSYS recently added Ansoft Academic product bundles to the portfolio, enabling students to address radio frequency, microwave, signal

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integrity, electromagnetics and mechatronics sectors.

"Our students now have access to the same powerful simulation tools that are used by professionals across the global engineering field. The software provides them with hands-on, real-world experience that will enable them to deliver more value as they move forward in their careers," said Brian Vidic, director of technology at the Swanson School.

"Traditionally, there was little overlap among various engineering disciplines," said Paul Lethbridge, academic program manager at ANSYS, Inc. "However, there is a growing trend toward blending these separate disciplines to create relatively new and emerging fields such as microsystems and mechatronics. By incorporating these coupled-physics capabilities in the ANSYS Academic portfolio, we are helping to train a new generation of 'multiphysicists,' or engineering generalists, who can meet the changing needs of industry. Whatever the user's primary engineering discipline, the multiphysics capabilities of ANSYS software allow him or her to explore beyond the limited scope of a single product, which encourages innovation and multi-scale thinking."

About The University of Pittsburgh

The University of Pittsburgh serves more than 35,000 full- and part-time students at its 132-acre Pittsburgh campus and four regional campuses. The Swanson School of Engineering's 100 faculty members serve nearly 2,500 students in six departments -- including Bioengineering, Chemical and Petroleum Engineering, Civil and Environmental Engineering, Electrical Engineering, Industrial Engineering, and Mechanical Engineering and Materials Science. The School also offers interdisciplinary programs in Bioengineering and Chemical Engineering, Bioengineering, Computer Engineering, Engineering Physics, Manufacturing Systems Engineering and Petroleum Engineering. To learn more, visit www.engr.pitt.edu or www.pitt.edu

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VIA's Centaur Achieves Significant Benefits Using Cadence Virtuoso Space-Based Router at 65 Nanometers

3 May 2010

Cadence Design Systems, Inc. a global leader in [EDA360](#), announced that VIA Technology's microprocessor subsidiary, Centaur Technology, achieved significant quality and time-to-market benefits by using the [Cadence® Virtuoso® Space-Based Router](#) on its latest set of processors. Centaur used the Cadence router to help design its new 65-nanometer Nano 3000 Series processors, designed to bring enhanced digital media performance and lower power consumption to Windows 7 notebook and desktop PC markets. Centaur adopted the Space-Based Router for 65-nanometer custom datapath designs and standard cell routing.

"Compared to our previous routing solution, the Cadence Space-Based Router provided dramatic benefits in four areas: automation, throughput, density and reduced design rule checker (DRC) count," said Beth Longwell of Centaur Technology. "For example, we cut our routing cycle time in half, and block densities were increased up to 25 percent while meeting clock route requirements."

The Virtuoso Space-Based Router helps designers achieve shorter time to convergence, better quality of silicon, and differentiated products for consumer and wireless markets. Its high capacity easily handles flat and hierarchical data for 250,000 net designs, while its high-performance, multi-threaded implementation accelerates completion of the largest designs. The hierarchical, 3-D space-based

architecture enables accurate modeling, manipulation and checking of sophisticated geometries and constraints for sub-65-nanometer interconnect design closure. And its signoff-quality advanced design-rule interconnect checking system delivers correct-by-construction design closure.

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Product News

Accept Expands Support for Enterprise Agile Teams; Accept360™ Version 6.0 Enriches Enterprise Collaboration and Agility

5 May 2010

News Facts

- Accept's holistic approach to Product Strategy and Innovation Management aligns customer requirements and suggestions with business strategy, product portfolio planning and support for product development methodologies.
- The Accept360 suite delivers value through intelligent product prioritization and rationalization solving the age-old challenge of what products to build and features to develop that customers actually want to buy.
- SaaS-based Accept360 is specifically designed for enterprises managing complex product families, roadmaps and distributed development teams. Version 6.0 major enhancements include:
 - Daily collaboration through a 'whiteboard and post-it note'-like agile "Task Board" specifically designed for the daily scrum reviews between scrum masters and developers.
 - Ability to synchronize sprints across multiple teams and multiple train releases.
 - New Team Element functionality to efficiently and effectively manage agile development teams, resources, capacity, backlogs and burn downs.
 - Enhanced Accept Ideas, ideation lifecycle management, performance and reporting.
- Accept360 version 6.0 is available to the general public on May 6, 2010.

Supporting Quotes

"PRTM's recent research found that global corporations view the link between company strategy and product execution as critical," said Joe Lo, Director with PRTM. "Adopting an integrated end-to-end product management solution that spans the innovation lifecycle, from ideation through agile development, can reduce organizational complexity and cost while increasing the profitability of innovation strategies."

"Agile reaches well beyond the R&D organization," said Rich Mironov, author of "The Art of Product Management (<http://tinyurl.com/5ce65h>). "Product managers are the bridge between development teams and complex markets, keeping product strategies in mind while collaborating with customers and technologists to deliver the right products more quickly. Accept's collaboration and agility improvements are an important step forward for product/portfolio managers."

"The new capabilities in Accept360 version 6.0 removes the barriers commonly found when adopting agile development methodologies across dispersed teams and complex development organizations," said

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John Haniotis, vice president of Product Management at Accept. “Accept360 version 6.0 introduces a number of new features to Accept Requirements and Accept Ideas that improve program and product level collaboration and reduce product planning overhead and engineering efficiencies.”

Supporting Resources

Following resources are available at www.acceptsoftware.com/go/360 :

- Accept Agile datasheet
- Accept Agile whitepaper
- Accept Ideas datasheet
- Accept Requirements datasheet

For more information, visit www.acceptsoftware.com or call 866-423-8376.

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Cadence Accelerates SoC Realization, Reduces Costs With New Open Integration Platform

5 May 2010

Cadence Design Systems, Inc. announced the [Cadence Open Integration Platform](#), a platform that significantly reduces SoC development costs, improves quality and accelerates production schedules. A key pillar in support of its [EDA360](#) vision for next-generation application-driven development, the Cadence Open Integration Platform comprises integration-optimized IP from the company and its ecosystem participants; the new Cadence Integration Design Environment; and on-demand integration services. Cadence mixed-signal (analog and digital) design, verification and implementation products and solutions are the underpinning of the Open Integration Platform.

“At GLOBALFOUNDRIES, we are focused on providing time-to-volume leadership on advanced technologies to our customers,” said Walter Ng, vice president of the IP ecosystem at GLOBALFOUNDRIES. “Collaboration in delivering application-optimized platforms to our customers is essential to sustaining this leadership. We welcome the Cadence Open Integration Platform's collaborative approach, as this will offer greater choice across the design ecosystem.”

Development costs for the creation, qualification, acquisition and integration of IP into system-on-chip (SoC) designs are skyrocketing – in some cases accounting for as much as 25 percent of the total hardware design spend. The Cadence Open Integration Platform helps to reduce those costs by concentrating on an application-driven development process, and encouraging open, standards-based, collaboration within an ecosystem of production-proven semiconductor design companies, IP providers, foundries, service providers, EDA vendors and assembly houses.

The ecosystem participants providing the foundational IP to the Open Integration Platform at launch include Cadence, GDA (a subsidiary of L&T Infotech), IBM, RapidBridge and Sonics. As this ecosystem grows, development teams adopting an application-driven approach to design will have a rich portfolio from which to choose silicon-proven IP for standards-based I/O, memory and fabric, along with integration-optimized IP stacks and subsystems.

The new Cadence Integration Design Environment is a comprehensive suite of products that enable developers to create, evaluate, acquire and integrate IP into a SoC — optimizing from the physical layer

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through the controller and up to the bare metal software. It is based on existing technologies that include Cadence Chip Planning Solutions, Incisive Enterprise Manager and low-power and mixed-signal solutions.

“For every dollar spent on IP, significantly more is spent on qualifying, acquiring and integrating that IP into the device design,” said Nimish Modi, senior vice president, research and development, at Cadence. “The Cadence Open Integration Platform enables design teams to deliver higher quality, optimized SoCs with lower realization costs. Additionally, this enables designers to focus on differentiation through value-added content rather than spending significant resources and effort on activities that are better handled through packaged offerings or automation.”

Development teams can begin using the Cadence Open Integration Platform immediately. Cadence support teams will work with designers to identify the appropriate integrated IP offerings and provide the integrated support services needed to begin approaching development from an application-centric approach. The Integration Design Environment will be available from Cadence in Q4 2010.

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COMSOL Multiphysics Version 4.0 Now Shipping

30 April 2010

COMSOL Inc. announced that version 4.0 of its multiphysics simulation software is now shipping. First unveiled at the 2009 users conference in Boston, COMSOL Multiphysics version 4.0 features an all-new user interface that makes the power of multiphysics simulation available to a wider audience of scientists and engineers. Both expert analysts and non-experts alike will benefit from the organized layout and streamlined model-building process. Along with the release of version 4.0, COMSOL also announces the release of a series of new LiveLink™ options that integrate COMSOL Multiphysics into the mainstream product design workflow. New LiveLink products are now shipping for Autodesk® Inventor®, Pro/ENGINEER®, SolidWorks®, and MATLAB®.

“It feels great to make version 4.0 available,” comments Svante Littmarck, President and CEO of COMSOL, Inc. “We believe this release represents a bold step forward in usability that will increase productivity and problem solving capacity.” Version 4.0 is also a platform for accelerating the pace of development of new functionality. “Customers will notice this effect in the very near future: version 4.0a, available this June, includes three new modules for CFD, Plasma, and Batteries & Fuel Cells,” says Littmarck.

COMSOL Desktop - New Breakthrough User Interface

Model set up is smooth and direct. Version 4.0 brings high level of clarity to product design simulation by combining an organized model overview and a streamlined model-building process in the new COMSOL Desktop. It uses functional form, structure, and aesthetics as the means to achieve simplicity for modeling complex physical realities. For instance, task-specific tools appear on the Desktop right when you need them and show only the currently possible and necessary actions. This helpful user convenience removes uncertainty from model building and brings order to simulations.

ZINK Imaging, the inventor of the ZINK Technology and the manufacturer of ZINK Paper™ -- a revolutionary approach to full-color printing of information and images with simplicity -- makes frequent use of COMSOL Multiphysics within product invention, development, and manufacturing. Dr. Bill Vetterling, Research Fellow and Director of the Image Science Lab at ZINK Imaging, attended the

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2009 COMSOL Conference and tried out the new user interface. "The version 4.0 prerelease that was made available to attendees was a great way to try out new features," says Dr. Vetterling.

Version 4.0, by the way, is a masterpiece! It was a special treat this year to explore its fresh, new interface and insightful approach to the overall management of data," adds Dr. Vetterling. "In my experience, COMSOL Multiphysics is a product that makes significant advances year after year."

LiveLink family of products for integrating with CAD, MATLAB

By adopting COMSOL simulation, CAD software users can now accurately simulate how real-world physical effects shape the design of new products. To this end version 4.0 features the optional LiveLink family of products. Each LiveLink connects COMSOL Multiphysics directly with leading CAD programs so that all parameters specified in a CAD model can be interactively linked with simulation geometry. The current product line includes LiveLink™ for SolidWorks®, LiveLink for Inventor®, and LiveLink for Pro/ENGINEER®. In addition, LiveLink for MATLAB® is available for those who need to incorporate a COMSOL Multiphysics model into an extended technical computing and programming environment.

COMSOL Multiphysics on Windows HPC Server 2008

COMSOL Multiphysics version 4.0 now runs on Windows HPC Server 2008, creating a scalable and affordable high performance computing solution for simulation and virtual prototyping. Current users with a COMSOL Multiphysics version 4.0 floating network license will be able to deploy across as many Windows HPC Server 2008 nodes as they choose, at no additional COMSOL Multiphysics licensing cost.

"By creating applications that run on Windows HPC Server 2008, scientific and engineering software companies like COMSOL are helping speed discovery", said Vince Mendillo, senior director, Microsoft High Performance Computing Group. " Scientists, engineers and analysts need easy-to-use tools and accessible high performance computing power to create competitive advantage."

COMSOL Multiphysics supports parallel processing through standard shared-memory multicore computers as well as distributed-memory clusters. Users can turn to clusters to solve a series of parameter steps for a model, one parameter per node, or they can solve a single large model using distributed memory. For maximum performance, the COMSOL cluster implementation can utilize shared-memory multicore processing on each node in combination with the MPI-based distributed memory model.

COMSOL Multiphysics version 4.0 Highlights

- COMSOL Desktop lets you organize your workflow and provides a clean overview of your simulation job
- Quick model set-up in the Model Builder and its graphical programming utility throughout the modeling and simulation process
- LiveLink family of products for using COMSOL with CAD:
 - LiveLink™ for Inventor®
 - LiveLink™ for Pro/ENGINEER®
 - LiveLink™ for SolidWorks®
- LiveLink™ for MATLAB® to use multiphysics models in a programming environment

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- Extend your existing floating COMSOL *Multiphysics* license at no additional charge to additional nodes for clusters on Windows Compute Cluster Server 2003, Windows HPC Server 2008, and Linux
- Geometry parameter sweeps with full associativity
- New solvers
 - Modal solver for frequency response and time domain (for structural and acoustics simulations for example)
 - Direct solvers MUMPS and SPOOLES for cluster computing
- Fully automated simulation configuration of solver settings, solver sequences, mesh settings, and result visualization
- Fast graphics with new functionality:
 - Display of multiple plots simultaneously
 - Probes – measure and plot anything during the solution process
 - Data sets – create new solution data by operating on old data and use for postprocessing

New in Application Specific Modules

- Structural and Acoustics:
 - Automated boundary conditions for structural-acoustics
 - Elastic materials defined using bulk modulus and shear modulus, Lamé constants, and pressure-wave and shear-wave speed in addition to Young's modulus and Poisson's ratio
 - Poroelasticity for anisotropic materials
 - Rigid connector boundary condition for rigid pins and kinematic constraints such as prescribed rigid rotations
 - Structural shell for large deformations
- Heat Transfer:
 - Conjugate heat transfer (flow, fluid heat transfer, and solid heat transfer) for electronic cooling and heat sinks
 - Heat radiation in participating media
 - Heat transfer in porous media with multiple immobile solids
- AC/DC, MEMS, and RF:
 - Electrical circuit elements (including resistors, capacitor, and inductors)
 - Fast-frequency sweep solver (Asymptotic Waveform Evaluation)
 - Transition boundary condition for thin metallic layers of arbitrary electrical thickness
- Fluid Flow:
 - Improved turbulence models and low-Reynolds turbulence model
 - Mixture-averaged diffusion for concentrated species
 - Physics interface for fracture flow in structures with highly permeable thin shells and fractures

Availability

COMSOL Multiphysics version 4.0 is available for the Windows, Linux, and the Macintosh operating systems directly from COMSOL and from COMSOL's global network of distributors immediately. Full details about COMSOL Multiphysics and related products are available at www.comsol.com

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Dassault Systemes and IBM Expand Global Alliances

5 May 2010

[Dassault Systèmes](#) (DS) and IBM announced an expansion of their long-standing partnership and highlighted at IBM's IMPACT 2010 event the early deliverables of their Global Alliance, including financing solutions from IBM Global Financing, a joint competency center, and work on a PLM cloud computing proof of concept.

"The alliance focuses on delivering end-to-end solutions by industry, starting from transformation services to globally restructure product development"

"Bentley has a long-term relationship with Dassault Systèmes and IBM built up around software, systems and services. This relationship has helped us accelerate and improve our Engineering Design and Manufacturing PLM processes as we developed the Bentley Mulsanne, moving it through to the start of production in 2010," said John Unsworth, CAD strategy manager, Bentley Motors Limited. "Integration, teaming and access to industry best practices have been critical to our success with knowledge and skills transfer leading us closer to self sufficiency. Bentley strives for continuous improvement throughout all of its activities and we are always keen to exploit the next level of process concurrency. Dassault Systèmes and IBM solutions and best practices will be a factor in helping us get there."

The two companies, which represent the PLM industry's longest running alliance, continue to invest in developing, deploying and supporting client PLM environments. Further results from the alliance signed last month include a DS PLM V6 software cloud computing technical proof of concept presented at the IBM IMPACT 2010 conference this week. The concept illustrates how clients can take advantage of DS software via a range of delivery options, from on-premise solutions, to a cloud powered by IBM software, hardware and services that can help reduce IT complexity and minimize operational costs.

This latest expansion includes a dedicated team of IBM and DS personnel focused on enabling, marketing, and delivering PLM solutions necessary for clients to transform their business. To this end, the companies established an industry-first joint PLM competency center focused on optimizing DS PLM V6 solutions for performance, reliability, and scalability on an IBM infrastructure.

"Our global alliance is focused directly on our customers' success. It covers flexible financing options, PLM-on-the-cloud, combined infrastructure, software and services solutions, as well as a one-of-a-kind competency center for industrialization of V6 solutions on IBM infrastructure," said Philippe Forestier, executive vice president, Global Affairs, Dassault Systèmes. "These are all a means to a single end: our customers' innovation and business transformation strategies. Strategies such as these are significant and our customers deserve the best solutions and services in the industry to ensure a successful implementation and genuine return on investment."

The IBM Global Financing portfolio is designed to help fuel innovation for clients using the combination of DS and IBM technology, providing payment options that meet their budget, return on investment and project payback criteria. From simple loans to custom leases and terms as long as 60 months, IBM can finance the total PLM solution - including hardware, software and services - by providing affordable monthly rates and flexible payment structures.

IBM and DS's collaboration pre-dates the PLM industry, as the two companies collaborated first in 1981 and later jointly created and marketed the concept of Product Lifecycle Management. DS's PLM solutions leverage IBM WebSphere, Tivoli, Information Management, Lotus and Rational software and

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IBM systems to provide clients with a 3D vision of the entire lifecycle of their products. The combined solutions help clients to develop products from conception to maintenance and recycling.

“The alliance focuses on delivering end-to-end solutions by industry, starting from transformation services to globally restructure product development,” said Chuck Masur, vice president, DS Global Alliance, IBM. “It is about a long-shared and well-understood vision of how customers can advance their businesses with PLM, cutting cycle times and costs, while achieving breakthrough product innovation with Dassault Systèmes and IBM combined solutions.”

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EMC Announces Continued Growth in its EMC Documentum xCP Partner Ecosystem

5 May 2010

[EMC Corporation](#) announced continued growth in its partner ecosystem who are building intelligent case-based solutions that leverage EMC® Documentum® xCP. Companies including BRT, HCL, Paragon Solutions, Selectica, Tata Consulting Service, Unisys and Wipro have adopted Documentum xCP enabling them to rapidly develop new applications while reducing project risks.

BRT specializes in solutions for financial process automation and their accounts payable automation solution, APSolution™, is based on the Documentum xCP platform. APSolution handles the receipt of paper and electronic invoices and automates downstream processes, from invoice approval and exception processing through posting for payment. "By leveraging Documentum xCP, we are now able to more rapidly configure our accounts payable offering to fulfill each customer's unique business and cultural requirements, allowing them to realize value faster at a lower total cost," said John Middleton, Chief Operating Officer, BRT, Inc. "As we apply Documentum xCP to other offerings, such as accounts receivables, contracts management and human resources solutions, customers will realize similar benefits."

As one of the early adopters of Documentum xCP, Paragon Solutions has extensively used the platform to build applications for clients in insurance, financial services, life sciences and healthcare. "One of our leading offerings is the Payer Claims Processing solution, which handles the receipt and processing of all medical and dental claim forms for a paperless, straight-through processing of claims," said Daniel O'Connor, president and CEO at Paragon. "Documentum xCP enables us to jump-start a significant part of the engagement resulting in lowered implementation costs and a faster time-to-benefit. We're seeing a reduction of 25 to 50 percent of traditional implementation times. And using Documentum xCP, we're creating other solutions to address property and casualty claims management, policy and procedure management and new member enrollment."

"Unisys applied its deep expertise in developing criminal justice solutions to create an Integrated Courts Management System (ICMS) based on Documentum xCP in less than four months," said Rob Sprecher, Solutions Director for the Global Justice and Public Safety Portfolio at Unisys Corporation. "ICMS automates the process of creating, filing, docketing and maintaining detailed case information. The solution also configures easily to accommodate multiple languages. Documentum xCP's pre-integrated technologies and full-featured capabilities will allow us to leverage what we've done with ICMS and apply it to other types of application modernization projects for public safety and judicial procedures including civil, criminal, probate, administrative and family cases."

Documentum xCP is also being utilized by partners to develop cloud-based applications. "With Documentum xCP, we were able to expand our business by enabling us to build a variety of solutions

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that support multi-tenant requirements and cloud-based infrastructure," said Mansoor Ahmad, Vice President and Business Head of Global IT Business, Wipro. "For example, we provide a hosted human resources onboarding solution that helps HR departments of large organizations automate and manage manual, paper-based processes. In addition, we also offer hosted solutions for accounts payable management, brand management, real estate document management -- all built using Documentum xCP."

EMC Documentum xCP Overview

Documentum xCP is a dynamic applications composition platform that provides fully integrated technologies, development and deployment tools as well as application accelerators. Emphasizing configuration versus coding, xCP unites content management, business process management, intelligent capture, customer communications management, collaboration case management, analysis, reporting and compliance management into a single environment. With Documentum xCP, system integrators, independent software vendors and IT organizations can rapidly build intelligent case-based applications substantially faster, at a much lower cost and with fewer resources. The platform also allows organizations to significantly reduce the total cost of ownership by delivering applications that are easier to modify and maintain.

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ESI Reinforces its Welding Simulation Suite with Visual-WELD

4 May 2010

[Visual-WELD](#) is a workflow-based software user interface for modeling welding fabrication processes including all manufacturing details. It reinforces [ESI's Welding Simulation Suite](#) by facilitating fast and accurate distortion and weld quality virtual engineering at any stage of product design and manufacturing. Simplicity is indeed the key of this new interface.

Dedicated to all engineers who manage the design and fabrication of welded assemblies, [Visual-WELD](#) helps reach a stress minimized welding assembly within tolerances at minimal cost, respect customers' specifications and secure the production. Knowing that the failure of even the simplest weld can cause the failure of the entire design, [Visual-WELD](#) helps control component weld quality in terms of temperature, micro-structure and residual stresses. Consequently, it enables engineers to avoid problems such as backside temperature, stress corrosion cracking as well as crack initiation due to tensile stresses at the wrong place. Engineers are also able to produce uniform stress distribution and uncover hot stress spots all over the design due to the welding fabrication process that would have negative impact on the fatigue life.

[ESI's Welding Simulation Suite](#), with the complement of [Visual-WELD](#) dedicated user interface, offers the full set of welding engineering methodologies needed by designers, process planners and manufacturing practitioners. [Visual-WELD](#) is the latest simulation tool developed within [ESI's Visual-Environment](#), integrated and collaborative software environment, encompassing the complete workflow for realistic, physics-based Virtual Prototyping. Coupled with [Visual-Mesh](#) and [Visual-Viewer](#), pre- and post-processing modules of [Visual-Environment](#), [Visual-WELD](#) addresses the Welding Engineer's activities using a single data model, from interfacing to CAD formats, CAD cleanup, meshing, model set-up and post-processing.

Indeed, the latest release of [ESI's Visual-Environment](#) version 6.0 now includes all multi-physics involved in [Welding Simulation](#). ESI offers today a fully industrialized collaborative software

environment, including the following major components:

- * [Visual-Mesh](#), complete meshing tool which supports CAD import, 2D and 3D meshing and editing for linear and parabolic meshes;
- * [Visual-WELD](#), dedicated workflow-based welding simulation interface that enables Single-Pass and Multi-Pass Welding simulations. The complete workflow is represented with sequential and intuitive steps. The set up requires the minimum amount of input and allows engineers to be fully operational within a few hours.
- * [Visual-Viewer](#), post-processing tool with advanced plotting utilities. It allows the display, synchronization and animation of several computed physical quantities at the same time, and the comparison of result variants. It is thus easy and straightforward to identify and understand problems and thus take the necessary actions to improve the welded design or its fabrication.

“Visual-WELD was designed with the objective of allowing our customers to benefit easily from more than 100 men-years of experience in welding simulation”, said **Dr. Yannick Vincent**, Welding Product Manager.

“Included in the latest version of Visual-Environment, Visual-Weld delivers a great combination of intuitive interface and simulation of the physics of materials in this domain. Our customers are already excited about the possibilities this new Welding Simulation Suite brings to improve their welded products and welding processes”, added **Dr. Frederic Boitout**, Welding Project Manager, ESI Group.

[Visual-Environment](#) version 6.0 release also includes general performance enhancements and notable updates of existing applications, all aiming at contributing to an increase in productivity and efficiency. Indeed, animation speed and display operations are today two times faster than the previous versions and memory usage has been optimized by 25%. The increase in animation speed enables faster multi-physics animations and results comparison.

For more information, please visit: <http://www.esi-group.com/products/welding> and <http://www.esi-group.com/products/visual-environment>

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EtQ Introduces Product Data Management Module

6 May 2010

EtQ announced the addition of its Product Data Management (PDM) module. EtQ’s PDM module improves the management of product development through its components, subcomponents, and costs. PDM plays a major part in managing the product lifecycle. It helps track and control all data that is related to a particular product.

“In its latest release, EtQ introduced several new modules and features, PDM being one of them,” stated Morgan Palmer, Chief Technology Officer at EtQ. “PDM leverages all compliance functionality of the EtQ platform, including robust review and approval, the document change cycle, escalations, and reports. Along with improved product development management and enhanced control of all data, PDM provides a Bill of Materials (BOM) that lists all of the assemblies, subassemblies and components that go into the development of each product, as well as the quantities and costs associated with the product’s creation and launch. Overall, the capabilities inherent in the PDM module make it a valuable addition to the EtQ product suite.”

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EtQ's PDM module is a part of EtQ's vision of managing quality and compliance throughout the design, production, and continuous improvement phases of the product life cycle. To learn more about EtQ's PDM module, or to schedule a demo, visit us at <http://www.etq.com>.

About EtQ

EtQ is a leading Enterprise Quality and Compliance Management software for identifying, mitigating, and preventing high-risk events through integration, automation, and collaboration. EtQ uses integrated modules and enterprise application integration to manage and measure quality and compliance processes and execute organizational change. Key modules within the product include Document Control, Corrective and Preventive Action (CAPA), Audits, HACCP, Complaint Handling, Risk Management, Change Management, Employee Training, Project Management, Nonconforming Materials, Enterprise Reporting, and more than 20 additional compliance-oriented modules. With its world-class flexible workflow, collaborative platform, EtQ has developed a niche to support enterprises involved in various compliance management initiatives such as cGxP (FDA), ISO 13485, ISO 9001:2008, ISO/TS 16949, ISO 14001, ISO 22000, AS 9001, TL 9000, OHSAS 18001, RoHS, Sarbanes-Oxley, HACCP, SQF, BRC, IFS, and similar standards for compliance and regulatory management. EtQ has been providing compliance solutions to a variety of markets for over 15 years.

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Flowmaster Announces the Launch of the Software Development Kit (SDK) for Flowmaster V7

4 May 2010

The Flowmaster V7 SDK has been developed to put the same tools our developers use into the hands of our customers. The Development Kit gives customers a suite of tools to enable Customisation, Extension, Automation and Integration of Flowmaster V7 within product development and product lifecycle processes. Increasing the openness and interoperability of the software allows Flowmaster V7 to be fully integrated, and offers customers the opportunity to take a multi-disciplinary approach to these processes. Using the tools provided Flowmaster can be embedded within existing systems to facilitate the re-use of knowledge, to encourage simulation driven design and to provide for greater sharing of findings in a safe and controlled environment. Available now, the SDK combines Product Functionality with Training and Documentation to enable users to adopt Flowmaster V7 in a fully integrated, multi-disciplinary approach.

The Software Development Kit (SDK) technology and documentation will be available to existing customers immediately and will be part of any new purchase of Flowmaster V7 moving forward. Customers will be able to attend advanced training modules at their local Flowmaster representative offices or on-site from later this month.

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IBM Introduces New Offerings To Help Clients Optimize Their Business Processes To Fuel Growth

3 May 2010

IBM unveiled new offerings aimed at helping organizations achieve business agility by optimizing their processes to increase efficiencies, reduce costs and find ways to grow their businesses. The company also released results of a survey of senior executives that sheds new light on what organizations need to do to increase their ability to compete in the global marketplace.

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The new software expands IBM's leadership in the business process management (BPM) marketplace. In the first-quarter of 2010, IBM reported double-digit revenue growth in its business process management and integration software portfolio. Recognizing the increased demands from organizations to automate and integrate their businesses, IBM has built a base of over 20,000 practitioners, and is investing more than \$1 billion annually through R&D in addition to strategic acquisitions over the past 18 months.

"We are living in a business environment that is seeing unprecedented changes in the way people work, but at the same time presents enormous opportunities to expand productivity and profitability," said Craig Hayman, general manager, application and integration middleware, IBM. "Through better business process management, organizations can manage ad-hoc and automate time-intensive tasks, freeing employees to do higher value work and providing consistent, repeatable and more efficient outcomes."

Driving Efficiencies for Improved Business Outcomes

IBM is a leader in providing clients with higher-value capabilities that enables them to better integrate with their network of partners, suppliers and customers.

For example, IBM worked with Globe Telecom to implement a solution based on IBM's Business Process Management Suite, to integrate their business operations. As a result, they have been able to shorten time-to-market for new products from six months to 40 days. In addition, they have reduced product development costs up to 90 percent, allowing them to improve margins and significantly reduce financial risks of new product launches. With greater information sharing, insight and collaboration, Globe Telecom has also been able to better identify customers for more targeted offers.

Global Organizations Validate the Need for Business Agility

According to a new study from the IBM Institute for Business Value (IBV), entitled "A New Way of Working: Insights from Global Leaders," which surveyed 275 global executives, those companies that are significantly outperforming in their industries have focused on driving business agility, through work practices and business processes that help their organizations become more dynamic, collaborative, and connected.

The study also found that today's market leaders are twice as likely to have used modeling and automation to understand and improve their business processes and are three times more likely to use collaborative workspaces.

These findings demonstrate that business processes are essential to enable the smooth and timely completion of everything from hospital admissions to product design and distribution, bill payment and claims processing.

Accelerating Industry Solutions

IBM announced enhancements to the joint Center of Excellence between its Software Group and Global Business Services to help clients achieve greater agility and business performance. The enhancements support the delivery of new industry solution accelerators that provide industry-specific templates to help clients in banking, insurance, healthcare, telecommunications, and industrial product lifecycle

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management accelerate their BPM projects. The offerings are based on industry standards and can be customized to meet an individual client's unique business needs.

IBM is also introducing more than 30 new products and services including:

- **IBM Business Process Management Suite** – expanded to include IBM WebSphere Lombardi Edition and enhancements to IBM WebSphere Dynamic Process Edition.
- **IBM WebSphere Lombardi Edition** -- provides visibility and real-time control to help process owners react and adjust quickly to market pressures, regulatory changes, or other external forces.
- **IBM WebSphere Dynamic Process Edition** - new feature packs providing enhanced functionality and new capabilities to enable increased productivity and smarter insight.
- **IBM BPM Blueprint** -- a new web-based offering designed to help employees, partners and suppliers participate in communicating and improving business processes, ideas and initiatives.
- **IBM ILOG Business Rules Management System** -- includes easier and more comprehensive rule authoring for business users to automate the decision-making process. Business rules govern everything from processes to decision-making and give companies analytics capabilities the help them react more quickly to changing circumstances.
- **IBM WebSphere Commerce** -- a customer interaction platform that allows retailers and shoppers to share information, events, wish lists, and more on social networking sites.
- **IBM Rational Automation Framework for WebSphere (RAFW)** -- provides a customizable and extensible framework to automate environment administration for the WebSphere family of products.

In the first quarter of 2010, IBM WebSphere grew 13 percent, while its integration software grew by more than 20 percent. ILOG, which plays a key role in IBM's Smarter Planet initiative by providing business rules management, grew by more than 30 percent.

For more information on all of the new products and services or for details on how IBM is helping clients and Business Partners to make smarter, faster decisions by using BPM and SOA, visit:

www.ibm.com/software/websphere.

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Informative Graphics Launches New Suite of Products for SharePoint 2010 and Office 2010

4 May 2010

Informative Graphics Corporation (IGC) announced that it is developing integrations for its Brava! and Redact-It products for SharePoint 2010. Together, these products bring multi-format viewing, collaboration and redaction technology to SharePoint, allowing users with non-Microsoft documents -- including TIFF, PDF and CAD drawings -- to take full advantage of enhanced SharePoint 2010 collaboration and workflow features for all content on-premises, in the cloud, or on the go via mobile devices.

Brava supports virtually any format, offering a consistent collaboration tool for all formats used across the enterprise. Because it is web-based, secure and highly scalable, it is a perfect fit for SharePoint deployments. With SharePoint 2010 and Silverlight, administrators immediately increase usability for mobile users by offering high resolution, streamable views of documents and even CAD drawings via

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Silverlight and Seadragon. Brava also can pull and push metadata, allowing administrators to automatically display a watermark, like "Draft" or "Confidential" on documents. Custom stamps allow users to input information to the system, which can then trigger the next step in a workflow sequence.

Redact-It Enterprise offers automated redaction for companies and government agencies needing to protect sensitive and privacy information. Redact-It also supports virtually any format, creating a new, redacted TIFF or PDF rendition of the document with the sensitive selected information completely removed.

IGC will be demonstrating the new Brava and Redact-It integrations for SharePoint 2010 at Philadelphia (May 18), Washington, DC (May 27) and Seattle (May 27) Microsoft 2010 launch events. See: <http://www.microsoft.com/business/2010events/Highlights.aspx>

For more information about Brava and Redact-It for Microsoft SharePoint, visit: <http://www.infograph.com/sharepoint>.

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Intergraph® Releases New Version of SmartMarine(R) 3D Software for Offshore and Ship Design

5 May 2010

Intergraph® has released the new version of its SmartMarine® 3D enterprise engineering and manufacturing software with expanded automation capabilities to further increase design quality, consistency, productivity and accelerate project schedules.

SmartMarine 3D is the rule-based design and fabrication component of Intergraph's SmartMarine Enterprise software portfolio that enables offshore platform providers, fabricators and shipbuilders to increase their productivity by 20-to-35 percent, compared to traditional systems. The software offers a multidiscipline, integrated, worksharing-enabled environment for the modular design of structures, piping, equipment, HVAC and electrical modeling with automated detailing drawing capabilities.

The newest version of SmartMarine 3D further increase productivity with enhanced rule-based design automation capabilities. Graphical programming capabilities, referred to as "geometric constructions" enable the efficient definition of complex elements and structures based on engineering, construction and manufacturing rules. Once defined, the geometric constructions can be applied to other similar situations in the model. With Intergraph's patented associativity engine, the geometric construction will be fully adapted to the new situation using other objects as input parameters, saving time and preserving design integrity.

The new features in SmartMarine 3D also include expanded multi- 3D model referencing and model data reuse capabilities. SmartMarine 3D now can reference external data from many sources for visualization, clash detection and routed systems connections. Supported formats include PDS, PDMS, ACIS (.sat), MicroStation (dgn. V7 & V8), AutoCAD (.dwg) and Intergraph SmartPlant Review (.vue). This capability is very powerful when undertaking repeated 3D designs or for joint venture projects where multiple companies may be using different design products.

Often in offshore structure and shipbuilding buildups, the elements created are treated as single entities during the pre-FEED and FEED phase, but are separated into independent parts at the detail design and manufacturing stage. By using the advanced design, planning and manufacturing capabilities of SmartMarine 3D, users can bring these new features all the way from design to manufacturing without remodeling. This ensures consistency of designs and as-built situations which improve the overall

quality as well as the productivity of the project.

For extended model data reuse, SmartMarine 3D can copy 3D data within a model or to another model while maintaining relationships within the design. Entire modules or even units of a platform or vessel can be replicated with all their associated intelligence, reducing valuable engineering design effort while accelerating project schedules.

Other notable expanded capabilities of the newest version of SmartMarine 3D include:

- Grid system enhancements
- Enhancements to geometric constructions and advanced plate systems
- Additions to rule-based gaps
- Manufacturing of closed cross-sections
- Automated rule-based drawing enhancements
- Splitting of buildups
- Rule-based tubular connections (CANS).

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Latest Synopsys IC Compiler Release Delivers More Than 2X Speed-Up, Enhanced In-Design Technology and Production Support for 28/32nm

5 May 2010

[Synopsys, Inc.](#) announced the availability of IC Compiler 2010.03, a physical implementation solution delivering up to 2.5X faster performance on multicorner/multimode (MCMM) designs, and enhanced In-Design technology for faster design closure. IC Compiler's In-Design technology helps prevent late-stage surprises by enabling signoff-accurate static timing analysis, rail analysis and physical verification during design. The new software release has production support for all known 28/32-nm design rules for major foundries, with several customer tapeouts underway.

"We are a market leader in high-performance, multi-core processors for networking, wireless, storage and video markets," said Anil Jain, corporate vice president of IC engineering at Cavium Networks. "Signoff correlation and turnaround times are very important aspects for physical implementation. Early results show that IC Compiler 2010.03 is delivering more than 3X faster runtimes compared to our previous tapeout flow. Improvements like this drove our decision to make IC Compiler our physical implementation standard."

IC Compiler 2010.03 offers performance improvements across the board. It provides 2X faster time to initial floorplan creation and on-demand loading, which offers 2X to 3X faster time to final floorplan creation. IC Compiler 2010.03 also includes 2X faster pre-route feasibility engines and generates interactive reports that help significantly reduce iterative cycles during early stages of design. Faster MCMM scenario processing, core engine improvements and multimode clock tree synthesis deliver faster timing convergence.

Traditional implement-then-verify approaches result in lengthy design iterations due to late-stage surprises. IC Compiler's In-Design technology reduces such iterations by enabling signoff accurate analysis and physical verification during design. In-Design enhancements in the 2010.03 release include

dynamic rail analysis with PrimeRail and DRC auto fixing with IC Validator. The 2010.03 release introduces a new leakage optimization engine capable of handling more than 20 leakage variants. This is achieved by using In-Design technology with PrimeTime® to deliver considerable leakage reduction while preserving signoff timing. This capability, combined with advances in post-route leakage optimization and MCMM leakage scenario optimization, enables IC Compiler 2010.03 to deliver double the leakage savings in half the time.

"Customers like Cavium continue to push design complexity and schedule," said Antun Domic, senior vice president and general manager, Synopsys Implementation Group. "With the latest release of IC Compiler, we have delivered significant technology innovations to provide differentiated results. This release marks an important milestone in our collaboration with Cavium to enable a substantial reduction in turnaround times."

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Mentor Graphics Calibre InRoute Delivers True Manufacturing Signoff During Physical Design Closure

3 May 2010

Highlights:

- Invokes Calibre natively within the Olympus-SoC environment
- Automatically detects and repairs DRC/DFM violations during implementation
- Eliminates late stage surprises and unnecessary signoff iterations
- Improves design quality while reducing time to signoff

[Mentor Graphics Corporation](#) announced the new Calibre® InRoute design and verification platform, which now enables designers to natively invoke Calibre tools within the Olympus-SoC™ place and route system to achieve true manufacturing closure during physical design. The Calibre InRoute product automatically detects and fixes DRC violations and performs design for manufacturing (DFM) enhancements while optimizing for area, timing, power and signal integrity. The full power of the Olympus-SoC and Calibre platforms together improve design quality, eliminate late-stage surprises, and significantly reduce time to closure.

"We have used Calibre InRoute on a production 55nm SOC. InRoute has successfully corrected the DRC violations caused by several complex IPs, whose 'abstract' views did not fully match the underlying layout, as well as several detailed routing DRC violations," said Philippe Magarshack, STMicroelectronics Technology R&D Group Vice President and Central CAD and Design Solutions General Manager. "Besides catching manufacturability issues early in the design flow, InRoute allows us to automatically find and repair violations without leaving the Olympus cockpit. This saves engineering time and ensures that no new violations will be created by the fixes. We will take advantage of these unique InRoute capabilities in upcoming 55nm, 40nm and 32nm ST designs."

"Calibre InRoute with Olympus-SoC is a breakthrough product because it allows our customers to design to tighter margins, realizing higher performance and lower power, while eliminating design-driven manufacturing issues, all without extending time-to-market," said Joseph Sawicki, Vice President and General Manager for the Design-to-Silicon division at Mentor Graphics. "Calibre InRoute has the potential to be a game changer for design teams already pressed by tight tapeout delivery dates."

The Manufacturing Closure Problem

Designers are experiencing growing manufacturing closure problems in advanced ICs, such as mismatches between SVRF-based design rules and inaccurate or outdated place and route models; timing and power degradation due to litho, fill and thickness variability; long runtimes due to multiple iterations and huge ASCII file transfers; and lengthy manual repair methodologies. These issues lead to surprises late in the design cycle and delay time-to-market. Existing solutions that simply provide error annotation followed by manual repairs don't really solve the problem because they are slow, require layout engineers to have deep manufacturing knowledge, and are non-convergent because manual fixes to one problem often create new violations.

The Calibre InRoute Solution

The Calibre InRoute Open Router architecture allows the Olympus-SoC system to natively invoke Calibre SVRF-based DRC and DFM analysis in the inner loop of the router. The Calibre InRoute platform provides interactive, incremental analysis, on-demand GDSII model abstraction, and automated repair techniques targeted at specific DRC and DFM violations. The InRoute platform also performs MCOMM-based analysis and optimization during yield improvement modifications to automatically minimize the impact on timing and power.

The InRoute architecture is also extremely scalable -- besides the full breadth of DRC, LVS, LFD, CMP thickness variation, CAA and other DFM capabilities in the current Calibre platform, InRoute enables new Calibre rules and features to become immediately available inside the Olympus-SoC design environment as they are added. This ensures the increasing effectiveness of the InRoute platform as DRC and DFM rules get more numerous and complex.

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Mentor Graphics Veloce Delivers 400X Acceleration for OVM Driven Verification

May 2010

[Mentor Graphics Corp.](#) announced that the Veloce® emulation platform fully supports the Open Verification Methodology (OVM). The primary advantage to companies using both the OVM and the Veloce platform is the ability to use a single transaction-based testbench for both simulation and emulation—two technologies that are critical to the functional verification of large, complex system-on-chip (SoCs) designs.

Mentor pioneered transaction-based acceleration in 2001 to maximize user throughput on hardware emulators. The fundamental structure of the then popular time-based testbenches limited emulation acceleration to a mere 10X over logic simulation. The TestBench XPress™ tool, the culmination of over 100 staff-years of development, speeds transaction-based testbenches up to 400X.

Testbench development consumes up to 80 percent of the SoC verification effort, making testbench reuse a mandatory practice. With the TestBench XPress tool, engineers can accelerate their OVM simulation testbenches on the Veloce emulator without modification and speed execution by two orders of magnitude, transforming a five hour video frame simulation into a 30 second run on the Veloce platform.

“The widespread adoption of OVM validates our direction over the past decade that an untimed, transaction-based testbench is the most effective path to functional verification,” said Eric Selosse, vice president and general manager of the Mentor Graphics Emulation Division. “With the entire EDA

industry now promoting transaction-based methodology, the Veloce platform, combined with the TestBench Xpress tool, is uniquely positioned to accelerate the verification process.”

The Veloce and TestBench XPress tools consistently outperform other emulators on OVM-based customer evaluations, including those claiming higher raw emulation speed. The Veloce emulator high-performance implementation of the Accellera standard SCE-MI 2.0 (Standard Co-Emulation Model Interface) and extended synthesizable RTL subset accelerates more of the testbench in emulation hardware, including interface elements critical to high-bandwidth communication. Testbenches adhering to OVM guidelines are accelerated on the Veloce platform without modification, delivering effortless testbench reuse between simulation and emulation.

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MSC.Software Releases Dytran 2010

4 May 2010

MSC.Software announced that [Dytran 2010](#) is released and ready for download. This new release of [Dytran](#) delivers significant user benefits including:

- New parallel processing capabilities that provide dramatic performance
- Expanded capabilities to solve new classes of FSI problems
- Improved user efficiency

Speedier FSI Simulations

Dytran 2010 now includes advanced Distributed Memory Parallel (DMP) capabilities for Euler (fluid) and coupled analysis (fluid-structures) resulting in significant performance improvements for CPU intensive fluid-structure interaction applications.

The supported features for DMP include single and multi-material hydro Euler, ROE solver, failed elements in coupling surface, graded and biased mesh, coupling surface output and markers, geometric boundary conditions and viscosity. Improved performance translates to higher value for users.

Performance Benefit Example

A ballistic impact problem was modeled purely by Eulerian elements where a bullet impacts a steel plate at a high velocity. The model consisted of 90,000 Hex Eulerian elements. This model was run on Windows 64 bit and Linux 8664 systems. There was a 50% speed up with 2 CPUs compared with a single CPU run. With an 8-CPU system, Windows provided a speed up of over 2.7 times, and Linux system provided a speed up of over 3.7 times.

Solve New Classes of Problems

Cyclic flow boundary is a common CFD-boundary condition with applications in turbines, flow between rotating structures and pipe flow problems. Users can now easily specify two boundary conditions that will form the cyclic boundary by linking outflow at one boundary with inflow at another.

For example, in a problem of an oil pump turbine blade analysis, users can model only a small cross-section, thus reducing the model size while maintaining requisite mesh density for desired accuracy. Also, in studies involving wave propagation through infinitely long channels, relating outflow with inflow helps reduce the model size, while overcoming wave degradation problems.

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With the added flexibility to apply material specific body force for different materials inside a region, flow of materials can be controlled better. This can be used to define a magnetic field enabling the material to move together under gravity or acceleration and has applications in simulating flow problems in copiers and toners.

“I have been using MSC Dytran to successfully solve many challenging fluid-solid interaction problems,” said Sang Lee, Lockheed Martin. “The coupling is very easy to set up and user friendly, and the technical assistance provided by MSC is outstanding.”

“Our software development initiatives continue to focus on improving solver performance so our customers can achieve faster results during simulations and make better decisions related to product design,” said Sanjay Choudhry, VP, Product & Release Management at MSC Software. “This release of Dytran 2010 delivers game changing performance improvements for fluid structure interaction (FSI) problems.”

For more information about new features in Dytran 2010, listen to the *On-Demand webinar* at http://www.mscsoftware.com/events/webcasts/dytran/Dytran042810/Dytran_2010.html.

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Open Text Announces Rights Management Services for the Open Text ECM Suite

5 May 2010

Open Text Corporation announced Rights Management Services (RMS) for the Open Text ECM Suite which allows enterprises to safeguard confidential and sensitive information from unauthorized uses for content even after it leaves the secure vault of the content repository.

High-profile public and private sector cases of information misuse, IP theft and privacy leaks over the past few years have been due in part to the ease of distributing electronic information via email, flash drives and other means. Even though the content may be stored in a secure repository, once users have the right to read a document and save it on their local drives, the content becomes vulnerable. Open Text Rights Management Services lets organizations augment their security strategies by providing persistent protection that remains with information no matter where it goes. Rights Management Services gives users control over who accesses their content and how, and ensures that the right version is being used.

"With the speed that information travels, it's all too easy for sensitive documents to get forwarded or downloaded to a USB drive and land in the wrong hands," said Lubor Ptacek, Vice President of Product Marketing at Open Text. "Permissions-based security in an enterprise repository alone is not sufficient. By integrating Rights Management Services into the ECM Suite we are making it easy for customers to layer persistent content-based security on top of their current protection policies and procedures."

Rights Management Services works by enforcing content protection constraints for documents and other content based on business rules such as "do not email," "do not print" or "do not save locally." The application then encrypts the content and the publishing license together. The content and rights remain encrypted during transport, extending security to wherever the content travels. When a recipient opens rights-protected content, a request goes to a rights management server to validate the user's credentials and usage rights. Round-trip scenarios are also supported allowing editing and uploading of new versions that retain the rights management constraints.

Full integration with the Open Text ECM Suite allows organizations to deploy Rights Management

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Services and protect any content asset stored in the Open Text Enterprise Library, or map file access policies to existing security levels. As a shared service in the ECM Suite, Rights Management Services are also available to any content application in the organization.

Protection spans Microsoft Office 2003 and 2007 applications as well as virtually all other file formats, including PDF, HTML, engineering drawing file formats, image files, ZIP, archives and more. Users can also read and protect content viewed on BlackBerry smartphones. As a result, organizations can secure and control their content no matter where it resides and more fully comply with regulatory requirements that mandate information protection, such as the U.S. Sarbanes-Oxley Act, the Health Insurance Portability and Accountability Act (HIPAA), and similar regulations around the world.

The Open Text RMS solution takes advantage of the Active Directory Rights Management Service from Microsoft available with Microsoft Windows Server 2003 and Windows Server 2008.

"More and more organizations are seeing rights management as a critical part of their information protection strategies to protect against leaks and theft of confidential information. That's why we build this capability directly into our server platform," said John Chirapurath, Senior Director in the Identity and Security Business Group at Microsoft. "Open Text is providing advanced solutions on top of Active Directory Rights Management Services to help customers build what we call Business Ready Security into their enterprise content management and collaboration initiatives."

Open Text is also partnering with both GigaTrust (<http://www.gigatruster.com/index.shtml>) and Liquid Machines (<http://www.liquidmachines.com/>), leaders in extending the Microsoft RMS platform, to add support for specialty content types such as computer-aided design (CAD) files, Visio, Adobe PDF, graphic files, and many other file formats, plus rights management support for documents available via BlackBerry devices.

"With the addition of GigaTrust's Protector for the Open Text platform, information control can be applied and managed in a variety of ways to meet the needs of different industries or different business functions that use varied file formats no matter where the content travels," said Darryl Worsham, Vice President of Business Development and Partner Products at GigaTrust.

"Liquid Machines and Open Text are providing customers with a solution that covers the majority of file types in an enterprise. With the integrated solution, our joint customers can persistently protect their most critical intellectual property in electronic form, regardless of where it travels. Rights management policies can be applied automatically and consistently to all types of enterprise content throughout its lifecycle," said Ed Gaudet, Senior Vice President of Corporate Development and Marketing of Liquid Machines, Inc.

Availability

Open Text Rights Management Services for the Open Text ECM Suite is available now. Partner offerings are also available now directly through the partners. For more information, go to: <http://www.opentext.com/rights-management>.

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Synopsys Launches Industry's First MIPI® DigRF(SM) v4 IP

3 May 2010

[Synopsys, Inc.](#) announced the immediate availability of the DesignWare® MIPI® 4G DigRF(SM)

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Master Controller IP. By complementing its current silicon-proven DesignWare MIPI 3G DigRF Controller and PHY IP, Synopsys becomes the first vendor to offer a comprehensive IP portfolio for both the MIPI DigRF v3 and v4 standards. The configurable MIPI 4G DigRF Master Controller is compliant to the recently ratified MIPI DigRF v4 1.00 specification and enables designers to reliably implement the new standard. In addition, Synopsys is developing the DesignWare M-PHY(SM), the physical layer for the MIPI DigRF v4 interface, in parallel with the ratification of the specification. A single-vendor solution enables designers to lower the risk and cost of integrating the DigRF interfaces into baseband ICs (BBICs) and application processors, while speeding time-to-market of advanced LTE and Mobile WiMAX system-on-chips (SoCs).

"As a leading provider of 4G mobile broadband solutions, having a high-quality DigRF IP solution is critical to our product developments," said Sunny Padacheril, vice president of Engineering for SoC Development at Beceem. "We selected the DesignWare 4G DigRF solution because of Synopsys' expertise and track record of delivering high-speed interfaces."

MIPI Alliance's DigRF v4 is the latest generation of the standard that defines the interface between RF transceiver ICs (RFIC) and BBICs and addresses the increased data throughput requirements for mobile terminals targeting 4G standard air interfaces such as LTE and mWiMAX. The DigRF v4 specification also supports existing 3GPP standards such as 2.5G and 3.5G. The low power and area-efficient DesignWare 4G DigRF Master Controller implements the features defined for the protocol and PHY adaptation layers of the DigRF v4 rev 1.00 specification. The DesignWare DigRF IP has also verified interoperability with RFIC devices currently available on the market. Configurability of the IP RTL provides flexibility for system-specific implementations, such as number of lanes, sublinks and diversity, while protocol-specific attributes including IQ sample size, frame scheduling and handling of timing critical signals are software programmable.

"Ratification of the DigRF v4 specification is a key achievement for the MIPI Alliance," said Joel Huloux, chairman of the MIPI Alliance. "As an active contributor to the MIPI working groups, Synopsys has direct influence on the specification which enables them to provide a comprehensive IP solution that will help speed the adoption of this new interface into the mobile market."

"MIPI standards such as DigRF are instrumental to improving interoperability and accelerating development of mobile devices," said John Koeter, vice president of marketing for the Solutions Group at Synopsys. "This latest addition to the DesignWare MIPI portfolio, now consisting of DigRF v3 and v4, CSI-2 and D-PHY IP, enables designers to turn to a single, trusted vendor for high-quality solutions that help them bring MIPI-based products to the market faster and with less risk."

Availability

The DesignWare DigRF 4G controller is available now to early adopters. The M-PHY is under development based on the evolving MIPI specification. For more information, visit:

<http://www.synopsys.com/mipi>

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Synopsys Unveils Ethernet Controller IP With New Audio Video Bridging Feature

5 May 2010

Synopsys, Inc. announced the immediate availability of the DesignWare® Ethernet Quality-of-Service (QoS) Controller IP which implements the new IEEE specifications for audio video bridging (AVB)

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features. The DesignWare Ethernet IP solution supports the new IEEE 802.1AS and 802.1-Qav version D6.0 specifications. These specifications enable efficient networking of streaming audio video (AV) applications through IEEE 802.1 networks found in consumer electronics, automotive AV and professional sound system products. Synopsys' DesignWare Ethernet QoS Controller, which supports 10/100/1G data transfer speeds, allows designers to develop system-on-chips (SoCs) that deliver time-synchronized, low-latency audio and video over Ethernet networks with exceptional quality-of-service while retaining compatibility with legacy networks.

"Ambarella experienced great success using Synopsys' DesignWare Ethernet IP for our innovative hybrid camera SoC platform," said Chan Lee, vice president of engineering at Ambarella. "The high-quality DesignWare Ethernet IP solution is clearly the best we have used, providing advanced features, high performance and the smallest silicon area. By providing the new Ethernet QoS Controller IP with support for the audio video bridging feature, Synopsys continues to demonstrate its technology leadership in this space."

The configurable DesignWare Ethernet QoS Controller provides:

- Low power consumption by supporting the IEEE 802.1az (Energy Efficient Ethernet) specification
- Improved network performance by easing server bottlenecks through multiple TCP/IP offload functions
- A programmable PHY interface, which enables easy connection to all industry-standard Ethernet PHYs
- Ease of integration by supporting multiple system interfaces such as ARM® AMBA® 2.0, AHB™ and AMBA 3 AXI™ interconnect, allowing designers to add Ethernet connectivity to their SoCs.

Availability

The DesignWare Ethernet QoS Controller supporting 10/100/1G data transfer rates is available now. The DesignWare Ethernet 10/100/1G MAC, 10/100 MAC, 1G/2.5G/10G MAC, Ethernet PCS controllers and Ethernet Verification IP including SystemC models are also available now. For more information, visit: <http://www.synopsys.com/IP/InterfaceIP/Ethernet/Pages/default.aspx>.

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