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Acquisitions

Cimatron Announces the Increase of its Holdings in Microsystem to 100%

14 July 2008

[Cimatron Limited](#) announced that its board of directors approved the exercise of Cimatron's previously disclosed second call option to acquire an additional 49% of the shares of Microsystem Srl, the company's Italian distributor, for an exercise price of approximately US\$1,250,000, and accordingly, to increase Cimatron's holding in Microsystem from 51% to 100%. The exercise price was already included in Cimatron's current liabilities as of December 31, 2007. The acquisition is scheduled to close in the second half of July, 2008.

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Commenting on the news, Danny Haran, President and Chief Executive Officer of Cimatron, said, "The increase in our holding in Microsystem to 100% is the final stage of our investment in Microsystem, that was meant to strengthen our leading position in Italy, one of our key markets in West Europe. We have worked closely with Microsystem's management and staff since we acquired 27.5% of its shares in 2005, and we already see the benefits for both companies' customers and employees. We have consolidated Microsystem's results in our financial statements since Q3 2007, when we increased our holding to 51%, hence the increase to 100% is not expected to change the way we are currently reporting this holding in our financial statements".

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CIMdata News

A New CIMdata Program Review: SAP's New PLM Roadmap—Enabling Product and Service Leadership

17 July 2008

CIMdata, the leading global PLM consulting and research firm, announces the availability of a recently-published review of SAP's new PLM Roadmap program. The paper identifies the challenges facing businesses today, SAP's approach to helping companies address these challenges through their business strategy-based initiatives, PLM's role in supporting those initiatives, and a detailed look at SAP's new PLM Roadmap.

Commenting on today's highly competitive business environment, Ed Miller, President of CIMdata said, "Companies are under continuous pressure to remain competitive. New competitors, new products, and new markets are contributing to this pressure. Customers want new, more innovative products that are tailored to their specific needs. They also want service and support that is timely, cost-effective, and focused to their needs." Mr. Miller further explained that companies of all sizes "are demanding that their technology and application suppliers provide business-level solutions, not just applications and hardware that have new features and functions." He noted that business investment decisions today are based on the overall value that the initiative will provide to the company—expanded market share, higher profitability, improved customer loyalty, and more efficient use of the company's resources and intellectual capital—not just an individual's or a group's productivity or new functionality.

As a leading provider of enterprise solutions to companies in many industries across the world, SAP has determined that to continue to increase value to their clients, they need to be a more value-added solution provider than primarily a supplier of technology solutions. In order to meet this objective, SAP has identified a select suite of Business Strategies to communicate the issues that they will address with specific value-added solutions. They have stated that these Business Strategies will guide SAP's development of future products and services and clarify SAP's priorities for the industries they serve. SAP recognizes that Product Lifecycle Management (PLM) is a key enabling vehicle for addressing these issues. As a result, SAP has renewed its focus and commitment to PLM and has initiated an aggressive, multi-year development roadmap to strengthen and expand its PLM solutions. CIMdata's review provides a perspective on SAP's PLM program and its fit within SAP's suite of offerings.

Copies of the "SAP's New PLM Roadmap" Program Review are available at no cost through the [CIMdata](#) website.

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CIMdata Announces the Promotion of Peter Bilello to Vice President

14 July 2008

CIMdata, the leading global PLM consulting and research firm, announced today that Peter A. Bilello was promoted to Vice President. Previously, Mr. Bilello was CIMdata's Director of Consulting Services. Commenting on this, Mr. Ed Miller, President of CIMdata said, "This promotion recognizes the excellent contributions that Peter has made to our group and the key role that he plays in our business success." Mr. Miller added that Peter "has distinguished himself in CIMdata through his dedication to delivery of high quality services to our clients. But at the same time, he clearly recognizes the long-term value of repeatable methods and has been the leader in developing the methodology that we use in the delivery of our PLM Transformation services to our industrial clients around the world. These characteristics have enabled Peter to assume a key leadership position in our team and to position himself for even more contributions in the future."

"As we mark CIMdata's 25th anniversary, and I reflect on the last 11 years of my tenure with the firm, I am proud to have been a member of the team that has transformed the company into its position of leadership in delivering world-class knowledge, expertise, and best practice methods in product lifecycle management. But more importantly, I am excited about the prospects of CIMdata as it is well positioned in the global market and I look forward to continue to play a major role in ensuring its future success."

Mr. Bilello has more than 20 years of experience in the development of information technology (IT) solutions for research, engineering, and manufacturing organizations worldwide. He has held various positions in Product Lifecycle Management analysis, selection, and implementation, CAD/CAM/CAE/CIM implementation and management, synchronous and lean manufacturing consulting, and software engineering.

Mr. Bilello's university education includes a Bachelor of Science degree in Computer Science with a minor in Physics from the California State University Fullerton, and a Masters of Science in Engineering degree in Manufacturing Systems Engineering from The University of Michigan. Peter and his wife Dotti and their children Sarah and John live in Ann Arbor, Michigan.

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CIMdata Announces the Results of its Latest Poll on Managing Simulation & Analysis

18 July 2008

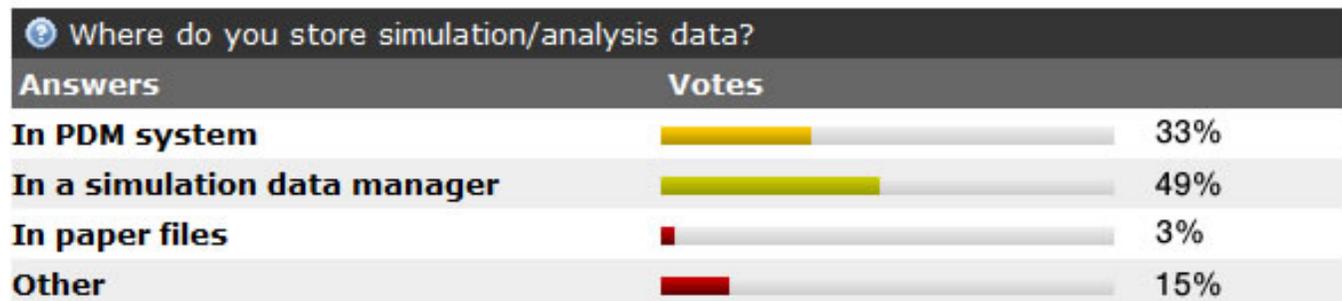
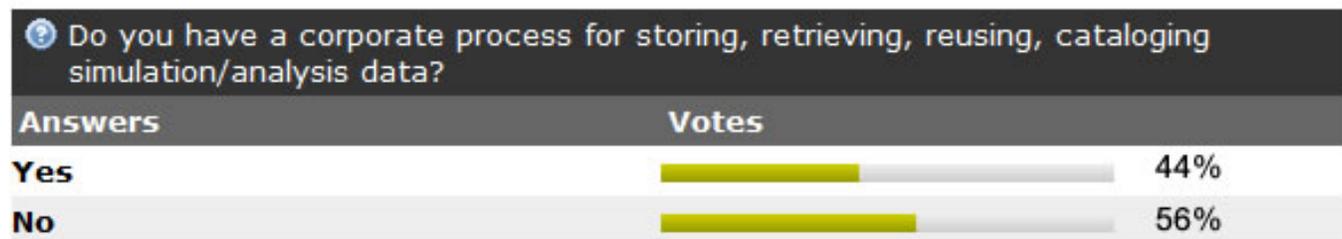
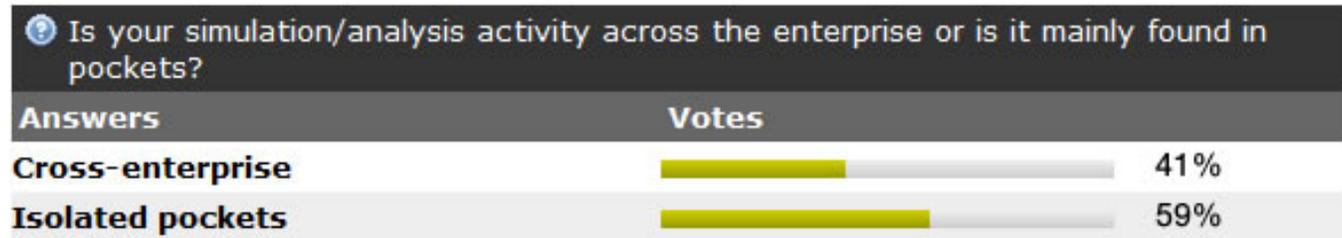
CIMdata's latest opinion poll indicates that Simulation & Analysis, while growing in use, is still primarily selectively used within enterprises according to 59% of respondents. Supporting this situation is that many most enterprises (56% of respondents) have not yet established corporate processes for managing S&A data. However, even though the responses indicate limited use of S&A, it is clearly growing. The fact that 44% of the respondents indicated that processes are being applied illustrates the growing importance that companies are placing on S&A and the recognition that managing this valuable IP is becoming more and more critical.

When asked where S&A data is being maintained, respondents indicated that approximately 18% was essentially in a loosely or uncontrolled manner – 3% on paper and 15% in other (Microsoft Excel is the leading S&A tool for S&A). On a positive note, 33% of respondents indicated that PDM systems were being used to maintain S&A data, while another 49% indicated that simulations data managers associated with the analysis tools were being used. The fact that some 80+% of the data is being placed

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under more formal control is a solid step to establishing better use of S&A data, including reuse and traceability. Linking the simulation data managers into the overall PLM environment will continue to improve this process.

Poll results:



Please note these results are anecdotal, not scientific.

A new opinion poll, what is the primary driver for deploying PLM solutions within your business? is posted on our [website](#).

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CIMdata in the News: “PLM's Natural Evolution”

1 August 2008

Industry-specific solutions are gaining renewed attention according to Jill Jusko in the IndustryWeek article [“PLM's Natural Evolution”](#) that taps the expertise of CIMdata’s Vice President, Peter Bilello.

According to Peter:

“It’s a definite trend, says Peter A. Bilello, vice president at CIMdata, a PLM consulting firm, that is both natural evolution as well as reflective of the maturing of the PLM industry.

About 10 years ago there was a push toward industry-specific solutions, Bilello notes. Attention

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then shifted to strengthening the generic applications, incorporating best practices, and now focus is returning to specialized solutions. "It's come back around; it's the next logical step," he says. And it's both large players and niche providers that are starting again to build out for specific industries.

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Only 10 Business Days Left to Vote in our Latest Opinion Poll: What is the primary driver for deploying PLM solutions within your business?

18 July 2008

If you haven't voted in our July opinion poll regarding the driver for deployment of PLM solutions within your business, please take a moment to [Vote Now](#)

The results of these polls are tabulated as you vote. The results are completely anonymous.

If you have a suggestion for a poll you'd like to see contact us at info@cimdata.com.

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Company News

Catalog Data Solutions Announces 85% Growth in First Half of 2008

15 July 2008

Catalog Data Solutions (CDS) announced that its first half year revenue in 2008 increased by 85% over the first half of 2007.

CDS finished 2007, its second full year, with 44 customers and in the first half of 2008 added 12 new customers for a total of 56. New customers added in Q1 and Q2 2008 include Anvil International, aMsp (All Metric Small Parts), AST Bearings, Aviation Metals, B & B Manufacturing, California Caster, General Bearing, Plastic Products, Standard Lifters, Hamilton Company, Thermaco - Big Dipper, Tomkins. In addition the company continued to expand the content available on its new free CAD model search engine <http://www.3DModelSpace.com>.

As Daniel M Smith of the Goodrich Corporation said, "I am a designer, and I dictate where the parts are purchased from. If you have the CAD model I want, you get the sale. It is just that simple."

"Whether they are looking for new parts, spare parts or CAD models our products save engineers valuable design time and make it easier for industrial suppliers' products to be selected online," said John Major, CEO, Catalog Data Solutions. "More than 90% of design engineers search for parts online – and our first half results confirm that manufacturers and distributors are responding by providing their part details and CAD models online."

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Gerber Technology Participates in Opening of Keehwa Hitech's Laser Cutter Manufacturing Center

11 July 2008

Keehwa Hitech Inc., Gerber Technology's distributor in South Korea, recently held the grand opening of

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its new Hitech Manufacturing Center, dedicated to the production of laser cutting systems, in Seoul, South Korea. James S. Arthurs, President of Gerber Scientific Asia-Pacific and Chairman of Gerber Technology was the chief guest and addressed the more than 100 people who attended the opening ceremonies. Raymond Cheng, Gerber Technology's Area Director for Southeast Asia & Korea, also participated in the ribbon-cutting ceremony with other local dignitaries.

In his opening remarks, James S. Arthurs congratulated Keehwa on its great achievement to develop laser cutting systems, open a new manufacturing facility and obtain the requisite quality certifications. "Gerber's relationship with Keehwa has been ongoing for 28 years," he said. "Together, we have experienced the substantial growth of our business in Korea in the apparel, automotive and technical textiles industries and we work closely with our customers to support them as they have expanded their production capabilities to other countries, most notably in Vietnam and China. There has long been a need for competitively priced laser cutters for automotive airbags and we are pleased to see Keehwa has filled this gap," he added.

According to Y. H. Shin, President of [Keehwa](#), "This is the second company-owned facility which has been custom designed for the company's operations. This building will be used exclusively to manufacture laser cutting systems for the cutting of automotive airbags, technical textiles, signs and engraving." Mr. Shin stated that Keehwa now had four production-version laser cutters in operation in Korea following a three-year development and beta test program. He added that the systems were CE certified for Europe and that Keehwa had already obtained ISO 9001 certification for the development, manufacture and after-sales service of its laser cutters.

In Korea, [Gerber Technology](#) has more than 350 customers using over 1,500 systems and workstations which are fully supported and serviced by Keehwa.

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Lectra Strengthens its Partnership with the Camera Nazionale della Moda Italiana

16 July 2008

Lectra, and the Camera Nazionale della Moda Italiana (National Chamber for Italian Fashion—[CNMI](#)), announced the launch of the second "Fashion Incubator Project" enabling designers from young Italian companies to design their first collections for presentation at Milan Fashion Week from September 20 to 27, 2008.

Following the success of the "Next Generation" and "reGeneration" projects, Lectra and CNMI are pursuing their initiatives to support young talent in Italian fashion. This year the jury chose to honor eight young designers: Andres Caballero/SAN ANDRES, Chicca Lualdi/BeQueen, Valentina Vizzio and Elena Pignata/A.VE, Federico Sangalli/FEDERICO SANGALLI, Gilda Giambra/GILDA GIAMBRA, and finally, Juan Caro and Fabio Sasso /LEIT MOTIV.

As an award, Lectra has made its Kaledo range available to these young designers so they can develop their brand new collections more efficiently for presentation at the traditional Fashion Week in Milan in September.

The Kaledo suite offers them a solution that can visually translate what they want to express through shapes and styles, elegance, and emotion. A rich vocabulary is at the designers' fingertips for designing and combining colors, fabrics, textures, styles, etc. In addition to these essential skills, designers also benefit from a design environment that takes account of the production constraints of the fashion world,

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so that creative imagination and profitability objectives remain compatible.

“Designers can waste a lot of time on repetitive tasks that have little to do with their creative abilities. Solutions like Kaledo, specifically conceived for the fashion industry, enable designers to focus on their principal task of designing original, innovative collections,” explained Mario Boselli, President of the Camera Nazionale della Moda Italiana.

Begun almost a year ago, the partnership between Lectra and CNMI—established to coordinate, govern, and promote the development of Italian fashion globally—aims to support budding entrepreneurs from the fashion world by giving them access to innovative, highly effective solutions to encourage their creativity and competitiveness. Consequently, Lectra is now involved in all the key fashion events and conferences in Italy, including the famous runway shows in Milan.

“We are delighted to be working with CNMI because it means we can support the work of promising young talent. ‘Fashion Incubator’ is the third program Lectra has taken part in. The results so far have been so impressive that we are very keen to continue this partnership,” explained Daniel Harari, CEO Lectra.

The Kaledo range is the result of Lectra’s experience acquired over the past 35 years. It includes the Kaledo Collection application for designing collections along with Kaledo Print, Kaledo Knit, and Kaledo Weave, textile applications for creating original prints, knits, and yarn-dyed woven fabrics. With Kaledo, designers can present, test, change, and develop a large number of styles and easily create a wide variety of fabrics and colorways. Ultra-realistic simulations allow them to express their creative ideas. This user-friendly range of design applications takes technical data into account, simplifying production series and allowing product lines to be developed very quickly.

For more information about Kaledo, please visit: <http://www.lectra.com/design/>

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Mentor Graphics Donates Unified Coverage Database (UCDB) to the Accellera Unified Coverage Interoperability Standard (UCIS) Technical Subcommittee

18 July 2008

Mentor Graphics announced the donation of its Unified Coverage Database (UCDB) specification and application programming interface (API), which manages all coverage data from multiple tools, to Accellera’s Unified Coverage Database Interoperability (UCIS) Technical Subcommittee, the organization for electronic design industry standards.

“Mentor Graphics is pleased its UCDB has been selected by Accellera to promote further standardization in verification management,” said Dennis Brophy, Director of Strategic Business Development, Mentor Graphics. “This is the same API that is used in our Questa verification platform today and offers production-proven technology as the basis for standardization within Accellera.”

Coverage metrics are used to quantify verification effectiveness and to highlight verification shortcomings that require attention. Coverage metrics come from numerous sources, including simulation, static design checking, functional formal verification, sequential equivalence checking and emulation. Each verification tool generally creates one or more collection of coverage metrics that may be discrete, overlapping, or subsets of one another. One of the key roles of the verification team is to bring this voluminous information together and interpret it so the verification team can determine verification completeness.

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“Managing verification information for verification closure is a major focus in the electronics industry, and we applaud Mentor’s timely donation to Accellera,” stated Shrenik Mehta, Accellera chairman. “Mentor’s unified coverage database specification and API improves the verification process, and the fact that this technology is actually proven through partner and customer usage makes this donation particularly valuable as an open standard.”

The [Mentor Graphics](#) UCDB donation includes the C language API header files and the UCDB API Reference and UCDB API User Guide documentation.

About Accellera’s Unified Coverage Interoperability Standard

The Accellera Unified Coverage Interoperability Standard (UCIS) Technical Subcommittee (TSC) was formed through active participation of the design community and EDA suppliers. The goals of the UCIS TSC are to identify interoperability opportunities between various coverage sources, define standard coverage models for commonly used metrics, design an interoperability standard that allows coverage data to be exchanged among EDA vendors’ tools and IC vendors’ environments, and encourage user and EDA technology advancement for the next generation of coverage solutions. UCIS is open to everyone without requiring non-disclosure agreements or proprietary licenses, and all parties are invited to participate in the development of the standard. For more information about the Accellera Unified Coverage Interoperability Standard, go to <http://www.accellera.org/activities/ucis>.

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PLM Industry Veteran Don Tolle Joins Comet Solutions, Inc.

10 July 2008

Comet Solutions, Inc. announced industry veteran Don Tolle has joined the company’s executive team as Vice President - Business Strategy & Corporate Development.

“Don Tolle is a great addition to the strong Comet team and further demonstrates our commitment to working more closely with strategic business partners and accelerating our global sales and marketing efforts. Comet’s recent customer success and new partnerships prove we are ready to capitalize on Don’s experience working with leaders in the CAD, CAE and PLM software industry as well as innovative manufacturing companies worldwide,” said Dan Meyer,

Before joining Comet Solutions in mid-June, Mr. Tolle was most recently a Director of Marketing for the Siemens PLM Software portfolio of Digital Lifecycle Simulation solutions, which includes digital simulation applications provided within the NX, I-deas and Teamcenter environments. His industry experience spans over 25 years at SDRC/EDS/UGS/Siemens including roles in CAE software product management, CAE software product development, product marketing, engineering consulting services, strategic partnerships and mergers & acquisitions.

Don holds a BS in Mechanical Engineering and a Masters in Business Administration from the University of Cincinnati and works out of the Comet Solutions office in Cincinnati, Ohio. He can be reached at 513-295-3641 or by e-mail to don.tolle@cometsolutions.com.

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Valor Appoints ELAS as Representative in Hungary

14 July 2008

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Valor Computerized Systems Ltd announced the appointment of Hungary-based ELAS as a representative in the electronics assembly market in Hungary.

ELAS has supplied manufacturing resources and support to the PCB manufacturing industry for more than 15 years. The new partnership enables ELAS' customers to benefit from Valor's solutions, including vPlan – Valor's next-generation, enterprise-level process engineering software solution, and vManage - Valor's software solution for End to End Manufacturing Monitoring and Control.

“In a globalised technological world such as our own, the ability to tailor manufacturing solutions to local conditions is essential. Valor has the ability to offer solutions which are both flexible and at the same time provide extensive coverage of the manufacturing process, and we believe that this is going to serve as a major competitive advantage for our customers”, said István Hámornik, General Manager of ELAS.

“We are happy to welcome ELAS to our growing network of strategic sales channel partners,” said Stephan Häfele, president of Valor Europe. “With its qualified and professional team, ELAS makes a perfect candidate to deliver Valor's solutions to the Hungarian market, and I am confident that Valor, ELAS, and the electronics manufacturers in Hungary will benefit from this partnership.”

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Events News

Dassault Systèmes to Highlight V6 at DELMIA Worldwide Customer Conference

16 July 2008

Dassault Systèmes (DS) announced its plans to showcase V6, a next generation PLM 2.0 platform and solution set, at its 2008 DELMIA Worldwide Customer Conferences titled “Experience Manufacturing Excellence.”

Attendees will learn of the benefits DELMIA V6 delivers with the next generation PLM 2.0 manufacturing solutions that help create, share, execute, and optimize virtual production systems. Dassault Systèmes V6 PLM 2.0 is a major redefinition of the 3D PLM markets for all users creating, consuming, and remixing Intellectual Property (IP).

Day one of the conference will feature an opening day keynote speaker and executive level presentations from various industry sectors. Additionally, Dassault Systèmes DELMIA CEO Philippe Charlès will open the conference by addressing how the DELMIA brand is positioned to meet today's product development and manufacturing challenges.

Day two boasts technical tracks covering several different topics including, but not limited to, auto and transportation, aerospace, PP&P, automation, a digital manufacturing culture, a V6 demonstration, and more. These tracks are based on best practices and are structured to maximize the attendees' time and investment in the conference by choosing topics that are most applicable to their industry and application focus.

The North American conference takes place at the Detroit Marriott Renaissance Center on October 7-8. DELMIA will also host a European conference in Stuttgart, Germany on October 15-16, and an Asia-Pacific event in Yokohama, Japan on November 11-12. These annual conferences provide a forum for prominent representatives of various industries to discuss the impact of digital manufacturing in product

CIMdata PLM Industry Summary

creation and how companies can strategically employ DELMIA digital solutions as a tool for cost savings, quality improvement, and reduced time-to-market.

Last year, the DELMIA Worldwide Customer Conferences were attended by more than 2,000 participants, representing more than 200 companies and 15 countries.

For more information, visit the conference website at <http://www.delmia-cc.com>. Facility capacity is limited, so early registration is recommended.

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ESPRIT 2008 and ESPRIT Mold v9 at Machine Tool Fair OTA 2008

15 July 2008

ESPRIT® 2008 and ESPRIT Mold v9, the latest versions of computer-aided-manufacturing (CAM) software created by DP Technology, will be on display Sept. 11-13 at Machine Tool Fair OTA 2008, in Tokyo, Japan.

Visitors to ESPRIT booths at Plaza Industrial Ota can expect one-on-one interaction with staff from DP Technology's resellers, as well as demonstrations of new software upgrades.

Upgrades available in the new release include turning stock automation for lathes, EDM machine specific machining technology, improved 3D machining performance, open pocket milling, expanded CAD to CAM feature exchange (FX), enhanced KnowledgeBase™ machining (KBM) functionality, and B-axis turning for 5-axis mill-turn machines.

The latest release of ESPRIT Mold includes significant performance increases for the 3D programmer that result in the reduction of cycle times of 25-50 percent or more while simultaneously increasing part quality and reducing programming time and effort.

On display at Machine Tool Fair OTA 2008, enhancements within ESPRIT 2008 and ESPRIT Mold v9 reduce the time required to produce part programs, increase the quality of those programs and help reduce machining cycle times.

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Lectra Holds its First Education Congress

17 July 2008

Lectra held its first Education Congress at the end of June dedicated to its "Privilege" partners. Deans, directors, and teachers from the world's most reputed international Fashion Schools and universities came to Bordeaux, France, for two days of very intensive seminars.

The Education Congress had, as main objectives, to network all participants to allow them and Lectra specialists to share their experience and expertise and to build a think tank geared toward the specific needs of fashion schools and universities. This think tank focused on different ways of providing students with a solid background, preparing them for their professional futures.

"This congress was a great opportunity to demonstrate the importance we place on education," said Véronique Zoccoletto, Chief Human Capital Officer and Education Program Director at Lectra. "But more than that, Lectra has provided a one-of-a-kind, close-knit environment for enriching exchanges among professors, deans, and directors from our partners, as well as with professionals from well-known

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fashion companies."

Lectra's solutions and education experts prepared a complete and dedicated program to address the concerns of fashion schools and universities which need to prepare their students for a professional environment undergoing full-scale evolution.

An entire session was dedicated to accessories that are becoming more and more important in well-known fashion brand strategy and as such must be integrated into fashion school curricula. Today, most of the schools want to offer their students the opportunity to develop particular skills in footwear, handbag and other accessories creation and development.

To better understand trends in the accessories market, Nicolas Dumontier, Project Manager for leather goods at Louis Vuitton, presented the main stakes faced by the industry.

[Lectra](#) experts explained, through live demonstrations and concrete customers' examples, how Lectra's 2D and 3D dedicated solutions could help overcome these challenges in this specific market and in the entire fashion sector in general.

"All our students need to know Lectra's solutions so they can be prepared for their future careers. Mastering CAD/CAM technology is a "must" for our students if they want to find good jobs in the fashion industry," precise Jun Li, Professor at Donghua University in Shanghai (China).

During one of the presentations, the Human Resources Development Manager at a leading fashion group encouraged education professionals to orient their students not only towards design but to pattern-making as well. Candidates with a mastery of pattern-making and grading as well as of the field-related technologies are in short supply, and thus very difficult to find, not only in Europe but also in the rest of the world, she said.

To address key concerns of the fashion schools and universities in terms of teaching methods and of students' involvement in concrete projects, the Lectra Education Congress also hosted two value-added testimonials: a new e-learning teaching method and the "mini-company" ESIV project. These presentations were very exciting for all schools, showing their willingness to share their experience with their counterparts.

Luciana Scrutchen & James Mendolia, who have experience of the e-learning teaching method, explained the way e-learning is used at Parson's The New School for Design (United States) and showed why it should be considered a major teaching tool in the coming years in academics as well as in professional training courses.

To address key concerns of the fashion schools and universities in terms of teaching methods and of students' involvement in concrete projects, the Lectra Education Congress also presented specialised workshops and value-added testimonials. These workshops were very exciting for all schools, showing their willingness to share their experience with their counterparts.

Catherine Prévôt, Executive Director, Ecole Supérieure des Industries du Vêtement -- ESIV (France), presented the ESIV's "mini company" project and demonstrated that it was possible to teach through practical educational methods. She explained how the school offers students the chance to create a "mini company," covering all key "real-life" experiences and functions, such as the creation of a 300-piece collection. Many of the collection development steps used Lectra solutions: Kaledo for creation, Modaris for pattern-making, Diamino for marker-making, and Gallery for collaborative product development management.

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The Lectra Education Congress offered its participants in-depth discussions with famous Lectra customers, market leaders and Lectra specialists, and the opportunity to share precious experience and initiatives.

It also demonstrated that Lectra was able to build a value-added network between fashion schools and universities and the industry, and established the value of the new Lectra Education Program in supporting future fashion professionals.

"Having new technologies is how we can stay ahead of the game. This congress was a good opportunity to evaluate that. It was also a great opportunity to unite the schools in the industry. It's always good to interact with other schools to see what they're doing and what you're doing. You can really learn a lot from each other," says Mario Federici, FIT, Chairperson & Professor, Production Management Department.

"This event was really rewarding as it allowed us to exchange skills, teaching content, and projects, all of which is very important for us," explained Catherine Prévôt, Executive Director ESIV.

Lectra Education Program

Launched in September 2007 as a major component of the new Lectra education program, the "Privilege" program comprises a personalized approach focused on the development of common projects, such as conferences, internships, support for students, shared information and data related to best industrial practices, etc., and is based on a strong long-term, mutual commitment.

For years, Lectra has supported education by offering the use of its technologies and expertise. As an industry leader, Lectra is responsible for contributing to the development and preparation of students for life-long careers. To date, over 660 schools and universities worldwide have integrated Lectra solutions into their curricula.

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Financial News

ANSYS, Inc. to Release Second Quarter 2008 Earnings August 7, 2008

16 July 2008

ANSYS, Inc. expects to release its second quarter 2008 earnings on Thursday, August 7, 2008. The Company will hold a conference call conducted by James E. Cashman III, President and Chief Executive Officer, and Maria T. Shields, Chief Financial Officer, at 10:30 a.m. Eastern Time to discuss second quarter results and future outlook.

CONFERENCE CALL INFORMATION:

What: ANSYS Second Quarter 2008 Earnings Conference Call

When: August 7, 2008 at 10:30 a.m. Eastern Time

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

The conference call dial in number is 888-245-0932 (US & CAN) or 913-312-6694 (INT'L) Passcode: ANSYS (26797)

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

Passcode: 5701438

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Apache Design Solutions Achieves Twenty-Second Consecutive Quarter of Record Sales with Continued Profitability

16 July 2008

[Apache Design Solutions](#) announced that the company has achieved its 22nd consecutive quarter of record bookings and revenue, while maintaining profitability. The company's growth reflects the strength of the Sentinel platform, a chip-package-system co-design/co-analysis and System-in-Package (SiP) solution, by significantly contributing to Q2 sales. Growth in Q2 also came from license expansions of RedHawk in the top tier accounts as they face the challenges of 45nm technology and low power demands.

"Apache's commitment for close collaboration with our customers and delivering solutions that address their power and noise challenges has contributed to our ability to set quarter after quarter of record sales for more than 5 years," said Craig Shirley, vice president of worldwide sales.

"The rapid adoption of Sentinel demonstrates the critical need for chip-package co-design by our customers as silicon process and packaging technologies continue to advance," said Andrew Yang, CEO of Apache. "Apache will continue to innovate and deliver products driven by our customers' challenges."

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Aspen Technology Announces Date of Selected Preliminary Fiscal 2008 Fourth-Quarter and Full Year Financial Results Release, Conference Call and Webcast

17 July 2008

Aspen Technology, Inc. announced that the company will release selected preliminary financial results for its fourth quarter and full year fiscal 2008, ended June 30, 2008, before the U.S. financial markets open on Thursday, July 31, 2008.

In conjunction with this announcement, AspenTech will host a conference call and webcast on July 31, 2008, at 8:30 am (Eastern Time) to discuss the Company's selected preliminary financial results, business outlook, and related corporate and financial matters.

The live dial-in number is (877) 239-3024, conference ID code 56704245. Interested parties may also listen to a live webcast of the call by logging on to the Investor Relations section of AspenTech's website, <http://www.aspentech.com/corporate/investor.cfm>, and clicking on the "webcast" link. A replay of the call will be archived on AspenTech's website and will also be available via telephone at (800) 642-1687 or (706) 645-9291, conference ID code 56704245 through August 6, 2008.

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Dassault Systemes Releasing Second Quarter 2008 Financial Results on July 31, 2008 as Previously Announced; Advancing Time of Webcast by 1/2 Hour

17 July 2008

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Dassault Systèmes (DS) will release, as previously announced, its financial results for the second quarter and six months ended June 30, 2008 on Thursday, July 31, 2008 and will host both a webcast presentation and conference call on July 31st at the times noted below.

Dassault Systèmes now plans to host its 2Q08 results webcast presentation at 8.00 am London time/ 9.00 am Paris time (previously scheduled for 8:30 am London time/9:30 am Paris time).

The timing of Dassault Systèmes 2Q08 conference call remains unchanged and is scheduled at 9:00 am New York Time - 2:00 pm London Time - 3:00 pm Paris Time.

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

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

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

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IBM Reports 2008 Second-Quarter Results

17 July 2008

- Diluted earnings of \$1.98 per share, up 28 percent; up 32 percent without a prior-year gain from the sale of PSD;
- Total revenues of \$26.8 billion, up 13 percent;
- Global Technology Services revenues up 15 percent; pre-tax income up 26 percent;
- Global Business Services revenues up 18 percent; pre-tax income up 31 percent;
- Total Services signings of \$14.7 billion, up 12 percent; \$12.2 billion at constant currency, up 4 percent;
- Short-term services signings up 18 percent; up 9 percent at constant currency;
- Software revenues up 17 percent; pre-tax income up 19 percent;
- Systems revenues up 10 percent; System z mainframe up 32 percent;
- E/ME/A revenues up 20 percent; Asia Pacific up 16 percent; U.S. up 5 percent;
- 18 percent of geographic revenues from growth markets, up 21 percent; up 14 percent at constant currency.

IBM announced second-quarter 2008 diluted earnings of \$1.98 per share from continuing operations, an increase of 28 percent as reported, compared with diluted earnings of \$1.55 per share, including a 5 cents per share gain from the sale of the Printing Systems Division (PSD), in the second quarter of 2007.

CIMdata PLM Industry Summary

Excluding the gain in the prior-year period, diluted earnings for the second-quarter 2008 increased 32 percent year over year.

Second-quarter income from continuing operations was \$2.8 billion, an increase of 22 percent, compared with \$2.3 billion, including the gain from the sale of PSD, in the second quarter of 2007. Without the gain, income from continuing operations increased 26 percent versus the comparable period last year. Total revenues for the second quarter of 2008 of \$26.8 billion increased 13 percent (6 percent, adjusting for currency) from the second quarter of 2007.

"IBM had an outstanding quarter and a strong first half for 2008. These results demonstrate that IBM has the ability to thrive in both emerging and established markets. Once again, IBMers performed very well around the world," said Samuel J. Palmisano, IBM chairman, president and chief executive officer.

"We are continuing to see the benefits of IBM's transformation in recent years. Today IBM is a company with a distinctive business model that gives us a competitive edge in a global economy. We enjoy a steady base of recurring revenue and profits; a truly global reach and scale; services and products that deliver genuine value to clients wherever they do business; and a strong and flexible financial foundation that generates powerful cash flow and fuels our investment in growth opportunities.

"We feel good about our full-year outlook and our 2010 roadmap for \$10 to \$11 of earnings per share."

From a geographic perspective, the Americas' second-quarter revenues were \$10.9 billion, an increase of 8 percent as reported (6 percent, adjusting for currency) from the 2007 period. Revenues from Europe/Middle East/Africa were \$9.8 billion, up 20 percent (7 percent, adjusting for currency). Asia-Pacific revenues increased 16 percent (6 percent, adjusting for currency) to \$5.3 billion. OEM revenues were \$706 million, down 17 percent compared with the 2007 second quarter. Revenues from the company's new growth markets organization increased 21 percent (14 percent, adjusting for currency) and represented 18 percent of geographic revenues.

Total Global Services revenues grew 16 percent (8 percent, adjusting for currency). Global Technology Services segment revenues increased 15 percent (8 percent, adjusting for currency) to \$10.1 billion, with significant growth from existing clients. Global Business Services segment revenues, which benefited from strength in consulting services, increased 18 percent (9 percent, adjusting for currency) to \$5.1 billion. IBM signed services contracts totaling \$14.7 billion, at actual rates, up 12 percent (\$12.2 billion, adjusting for currency, up 4 percent). Short-term signings increased 18 percent, at actual rates, to \$7.0 billion (up 9 percent to \$5.8 billion, adjusting for currency). The company ended the second quarter with an estimated services backlog, including Strategic Outsourcing, Business Transformation Outsourcing, Integrated Technology Services, Global Business Services and Maintenance, of \$117 billion, adjusting for currency, an increase of approximately \$1 billion year over year.

Revenues from the Systems and Technology segment totaled \$5.2 billion for the quarter, up 2 percent (down 3 percent, adjusting for currency). Revenues increased 5 percent (flat, adjusting for currency) excluding the year-to-year impact of the PSD divestiture in June 2007. Systems revenues grew 10 percent (4 percent, adjusting for currency). Revenues from System z mainframe server products increased 32 percent compared with the year-ago period. Total delivery of System z computing power, which is measured in MIPS (millions of instructions per second), increased 34 percent. Revenue from the converged System p server products increased 29 percent compared with the 2007 period. Revenues from the System x servers decreased 5 percent, and revenues from the System i servers decreased 47 percent. Revenues from System Storage increased 12 percent and revenues from Retail Store Solutions were flat. Revenues from Microelectronics OEM decreased 19 percent.

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Revenues from the Software segment were \$5.6 billion, an increase of 17 percent (9 percent, adjusting for currency) compared with the second quarter of 2007. Revenues from IBM's total middleware products, which primarily include WebSphere, Information Management, Tivoli, Lotus and Rational products, were \$4.3 billion, up 17 percent versus the second quarter of 2007. Operating systems revenues of \$592 million increased 4 percent compared with the prior-year quarter.

For the WebSphere family of software products, which facilitate customers' ability to manage a wide variety of business processes using open standards to interconnect applications, data and operating systems, revenues increased 9 percent. Revenues for Information Management software, which enables clients to leverage information on demand, increased 30 percent. Revenues from Tivoli software, infrastructure software that enables clients to centrally manage networks including security and storage capability, increased 9 percent, and revenues for Lotus software, which allows collaborating and messaging by clients in real-time communication and knowledge management, increased 21 percent year over year. Revenues from Rational software, integrated tools to improve the processes of software development, increased 37 percent compared with the year-ago quarter.

Global Financing segment revenues increased 6 percent (down 2 percent, adjusting for currency) in the second quarter to \$634 million.

The company's total gross profit margin was 43.2 percent in the 2008 second quarter compared with 41.8 percent in the 2007 period.

Total expense and other income increased 15 percent to \$7.8 billion compared with the prior-year period. SG&A expense increased 12 percent to \$6.3 billion. RD&E expense increased 8 percent compared with the year-ago period. Intellectual property and custom development income increased to \$285 million compared with \$246 million a year ago. Other (income) and expense was income of \$24 million, down \$228 million as a result of hedging and the year-to-year impact of the gain on the sale of PSD in the second quarter of 2007. Interest expense increased to \$145 million compared with \$130 million, primarily due to the increase in debt to finance the company's accelerated share repurchase agreements.

IBM's effective tax rate in the second-quarter 2008 was 27.5 percent compared with 28.0 percent in the second quarter of 2007.

Shares repurchased in the second quarter were approximately \$4.7 billion on a cash-paid basis. The weighted-average number of diluted common shares outstanding in the second-quarter 2008 was 1.40 billion compared with 1.46 billion shares in the same period of 2007. As of June 30, 2008, there were 1.35 billion basic common shares outstanding.

Debt, including Global Financing, totaled \$34.2 billion, compared with \$35.3 billion at year-end 2007. From a management segment view, Global Financing debt increased \$639 million from year-end 2007 to a total of \$25.2 billion at June 30, 2008, resulting in a debt-to-equity ratio of 6.8 to 1. Non-global financing debt, which reflects financial leverage associated with accelerated share repurchase agreements, totaled \$9.1 billion, a decrease of \$1.7 billion since year-end 2007, resulting in a debt-to-capitalization ratio of 26.9 percent from 30.0 percent at year-end 2007. The cash balance was \$9.8 billion at the end of the second quarter.

Year-To-Date 2008 Results

Income from continuing operations for the six months ended June 30, 2008 was \$5.1 billion, an increase of 24 percent, compared with \$4.1 billion, including the gain from the sale of PSD, in the year-ago

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period. Diluted earnings per share from continuing operations increased 32 percent to \$3.63, compared with \$2.75 per diluted share, including the gain from the sale of PSD, for the 2007 period. Without the gain, income from continuing operations for the six months ended June 30, 2008 increased 26 percent and diluted earnings per share increased 34 percent. Revenues from continuing operations for the six-month period totaled \$51.3 billion, an increase of 12 percent (5 percent, adjusting for currency) compared with \$45.8 billion for the six months of 2008.

Presentation of Information in this Press Release

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

IBM Results -

- adjusting certain financial results for the sale of PSD;
- adjusting for currency (i.e., at constant currency).

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

Conference Call and Webcast

IBM's regular quarterly earnings conference call is scheduled to begin at 4:30 p.m. EDT, today. Investors may participate by viewing the Webcast at <http://www.ibm.com/investor/2q08>. Presentation charts will be available on the Web site prior to the Webcast.

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MSC.Software to Hold Second Quarter Earnings Conference Call and Webcast on August 5, 2008

17 July 2008

MSC.Software Corporation announced that it will host a conference call to discuss second quarter financial results on August 5, 2008 at 1:30 pm Pacific (4:30 pm Eastern). The earnings press release will be issued at the market close on August 5, 2008.

The second quarter conference call will include a slide presentation that can be downloaded at: <http://www.mscsoftware.com/ir/>. The conference call can be accessed by web cast at: <http://www.mscsoftware.com/ir/> or by dialing in to (800) 374-0151 for US callers, or (706) 634-4981 for international callers. To participate in the live conference call, use the following conference ID code 55221048.

An archived version of the conference call will be available at <http://www.mscsoftware.com/ir/>. The teleconference replay will be available for 48 hours and can be accessed by dialing in to: U.S. (800) 642-1687 or Intl. (706) 645-9291 using the conference ID code 55221048.

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Sopheon Trading Update

18 July 2008

Sopheon plc announced the following trading update.

During the first half of 2008 we added 17 new licensee customers and 7 license extension orders from existing customers, in addition to a number of consultancy and services contracts.

On Wednesday 25 June we announced we had achieved the milestone of 150 licensees and had revenue visibility for 2008 in excess of £6 million. Since that announcement, we have closed an additional 4 new customers as well as a very substantial extension order, which was closed in July. With this additional business, visibility for 2008 now stands at almost £7.3 million compared with £4.9 million at this time last year. Our sales pipeline for the remainder of 2008 remains very active and any new business from the pipeline that we succeed in closing between today and the end of the year will add to this visibility figure. Sopheon's total revenues for 2007 were £6.3 million.

A full definition of how visibility is calculated was provided in our announcement on 25 June.

We expect both revenue and EBITDA for the first half of the year to show good growth compared to 2007 and will provide details in our interim financial report, scheduled for release on 28 August 2008.

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Implementation Investments

AEG Electric Tools GmbH Creates Cool Power Tools Faster with EFD.Lab Flow Simulation

15 July 2008

AEG Electric Tools GmbH uses Flomerics EFD.Lab fluid flow and heat transfer simulation software for optimizing airflow and cooling effects in their power tools. "On a recent project we used EFD.Lab and we were able to get the engine running 20% cooler, and also we obtained this improvement much faster than before," said Markus Wörner, design engineer at AEG. "Because power tools are getting more compact, we investigate airflow and cooling issues to better understand the effectiveness of the method used. We used to rely on our prior experience or on the results from physical prototype testing. But now we use EFD.Lab to complement information we have gained from experience; therefore, we have a much better idea of how our products will perform well in advance of the physical testing stage."

Recognized as a member of the "Top 100 Most Innovative Companies in Germany's SME Sector," AEG's product portfolio includes more than 100 different types of tools for the professional market including hammers, percussion and diamond drills, angle as well as straight grinders and jig- and circular saws. AEG products are meticulously tested before market introduction to ensure high quality and reliability. To test new design concepts created with PTC's Pro/ENGINEER Wildfire 2, the design team uses EFD.Lab for thermal and airflow conditions.

"We chose EFD.Lab because it was easy to use. For example, with EFD.Lab we do not need to define the fluid area – the software does this automatically." Most traditional fluid flow simulation programs require users to create "phantom" solid parts to represent the (empty) fluid regions – an extremely time consuming process since users need to identify each region manually and then create geometry to fill it. EFD.Lab saves users time and effort by automatically differentiating between solid and fluid regions for internal and external flows to create the fluid domain. Testing prototypes with EFD.Lab enables the

CIMdata PLM Industry Summary

AEG design team to fine-tune new design concepts by using information that they have amassed over the years as the basic building block for their new design work. "By using EFD.Lab we are able to further fine-tune our designs to reach an optimized design much faster. On a recent project, we realized that we had already reached our goal for improved airflow with the very first prototype," added Peter Henske, CAD Manager.

Aside from dealing with engineering design issues, the AEG design team also faces a very unique challenge: power tools designed at the South German facilities are engineered for two different brands -- AEG Power Tools and Milwaukee Electric Tools. The tools are based on a common platform which makes it possible to modify the machine components for the different needs of users. The modular design gives the chance to realize two different exterior designs. "Different exterior design and internal components result in completely different airflow in the machine. Testing each configuration would take a lot of time. But with simulation we can identify the effects caused by all the different design options and ensure proper performance for all machines based on the platform," said Henske.

Interested readers may watch a free EFD.Lab online demo at <http://www.flomerics.com/products/efdlab/demo.php>. To learn more about AEG Electric Tools or Milwaukee Power Tools, please visit <http://www.aeg-pt.com> and <http://www.milwaukeeetool.com> respectively.

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Corden Pharma Opts for CIDEON Output Management

8 July 2008

Corden Pharma GmbH Plankstadt - since February 2008 part of the **ICIG** - decided in favor of the CIDEON Software solutions. Corden Pharma is investing into the future and will position its internal document administration on the technical basis of SAP PLM. To realize the ideal solution implementing the CIDEON Output Management is a crucial foundation. The CIDEON conversion engine will be utilized in the future for the conversion of pharmaceutical documents. Critical for the assignment of CIDEON Software GmbH is their extensive know-how in the SAP PLM environment and the references of the pharmaceutical industry.

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CSI Integrates HyperWorks Simulation Tools into Its Automotive Product Development Process

14 July 2008

Altair Engineering, Inc. announced that CSI, S.p.A. -- one of Europe's leading suppliers of testing, engineering development support, and certification services -- has added Altair's [HyperWorks](#) simulation platform to its automotive product development process. CSI's recently expanded Automotive Department will use the HyperWorks computer-aided engineering (CAE) technology suite to increase its focus on virtual and performance engineering. The company plans to improve its entire development cycle by creating a close relationship between simulation and physical testing.

"We recently made the decision to integrate CAE into our development process and looked at the available tools to see which best suited our needs," said Fausto Mozzarelli, Head of Engineering Division, CSI-Italy. "One reason we chose HyperWorks was that we feel very comfortable with the combination of Altair tools we can use for Crashworthiness and Occupant Safety simulation.

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HyperMesh, RADIOSS and HyperView are a perfect match for our requirements. They are also used by many of our major customers, which helps to sustain the reliability of data and models while eliminating any danger of data loss."

"Another reason for choosing HyperWorks was the platform's open architecture and the availability of other Altair and partner tools under the same licensing system. We feel this will give us opportunities to apply CAE methods to other areas such as durability and NVH. HyperWorks is a valuable toolset that will enable efficient product development and help us to reach our targeted performance," he concludes.

"We are very pleased to welcome CSI as a valued customer," said Cosimo Panetta, Managing Director, Altair Engineering, Italy. "Consulting companies that have a diverse client base like CSI's can really take advantage of all that the HyperWorks suite offers. Our flexible licensing system, open architecture, and new HyperWorks-enabled partner program help them get the most out of their investment in CAE tools."

About CSI S.p.A. (Engineering and Certification Institute)

CSI S.p.A. (IMQ group) is a privately held Italian company and one of Europe's leading service suppliers for testing, engineering development support and certification in different business areas. The principal fields of activity concerning automotive are: 1) Crashworthiness and Occupant Safety: Sled testing, full-scale crash testing, occupant safety (OOP certification), restraint systems development 2) Strength and Dynamic Performance: Vehicle endurance (four-poster), vehicle dynamics (seven-poster), NVH (semi-anechoic chamber AWD rollers and four-poster in climatic chamber), vehicle component testing, and component fatigue tests under varied temperature/humidity ambient conditions. CSI services are performed in accordance with EEC, ECE, FMVSS (USA) and TRIASS (Japan) standards. The company also provides full EEC and FMVSS (USA) certification for automobiles and components under turnkey contract. CSI is fully recognized by the FIA commission for certification of after-market products in accordance with FIA regulations (i.e. F1 formula, SR1 formula, SR2 formula, etc.). More information about CSI can be obtained by contacting Mr. Henry Gutman, Marketing Manager-Automotive, henrygutman@csi-spa.com, or can be found at: <http://www.csi-spa.com>.

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Delcam's FeatureCAM Cuts Machining Times by 80%

17 July 2008

Hawk Industries, Inc., a designer and builder of specialty drilling tools for the oil and gas industry based in Signal Hill, California, reduced machining time for its alloy steel components overall by 80% with its implementation of Delcam's FeatureCAM feature-based CAM software and an investment in CNC mills. The change to FeatureCAM also reduced part programming times by 30% and helped the company to triple its output.

Hawk equipment is used to grab the pipe as it is pulled out of the well and break the threaded joint, or to make the joint as the pipe is put down the well. One part of the device holds the pipe; another spins the adjoining segment to accomplish the task. With the Hawk device, it takes only eight seconds to undo a joint in the field. The devices can save up to two hours a day and on a rig that costs \$150,000-\$300,000 a day to operate, that amounts to a lot of money.

Determined to be competitive not only in its quality but also in its manufacturing methods, the company upgraded its CNC milling capability with purchase of three extra mills and FeatureCAM software to

CIMdata PLM Industry Summary

take models of its components into production quickly.

Mike Russo, manufacturing consultant at Hawk, had experience moving from simple 2D software to 3D software in his own business and so recommended FeatureCAM. The impact on Hawk's manufacturing capacity has been substantial. When Mr. Russo got to Hawk, the company was shipping about 20 units each year. Today, with the help of FeatureCAM, the company is producing 60 units or more a year.

More than 400 CNC programs have been completed in FeatureCAM. Typical machining tolerances are in the .001" range and are achieved consistently. The result has been a huge improvement in part consistency and a saving of more than 35% in assembly time for the more than 500 different parts that make up the devices.

On a single plate, the combination of FeatureCAM and the new CNC mills reduced processing time from four hours to one-and-a-half hours. On another part, the machining and assembly time went from three hours to thirty-five minutes, and the fit between the two parts is now more consistent.

FeatureCAM saves programming time as well as machining time at Hawk. Its feature-based programming makes it easy to create CNC programs for Hawk's models. Furthermore, most of the parts machined at Hawk are held in custom fixtures, designed with FeatureCAM. This not only maintains consistency, but reduces set-up time and allows Hawk to machine several parts in a single set-up.

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Delcam's PowerSHAPE CAD Used for Conformal Cooling Project

14 July 2008

Delcam's PowerSHAPE CAD software played a key part in the recent Hipermoulding project to develop more efficient thermal management in injection moulds through the use of conformal cooling. This project, which was part-funded by the European Commission, proved its worth by showing an impressive reduction in cycle times on four sample parts.

Conformal cooling involves the production of injection moulding tools or, in most cases, inserts where the cooling channels can be optimised to give the most efficient cooling possible and so allow reductions in cycle times. This is often impossible using conventional means due to the complex shapes of many moulded parts and the fact that normal cooling channels can only be drilled in straight lines.

By using layer based manufacturing techniques whereby tools are built up in thin layers of metal powder selectively melted by laser, it is possible to make tools with cooling channels of any geometry. Specialised software has been developed during the project to enable rapid and accurate design of the cooling channels that can be exported into PowerSHAPE for incorporation into the insert design.

To demonstrate the success of the technique, four production tools were remade as "Hipermoulds" and comparisons made between the new version and the conventional mould. Cycle time reductions of between 16% and 32% were achieved. This was coupled with larger processing windows and better stability in the final products. These advantages were achieved without the process having to be set up differently from a conventional mould.

Further information on the project can be obtained from <http://www.hipermoulding.com>.

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MAKO Uses SolidWorks Software to Design Robotics and Implants for Minimally Invasive Surgery Alternative

14 July 2008

More than 1,000,000 stiff and aching knees worldwide get replaced every year, many of which are now candidates for a breakthrough, minimally invasive knee surgery option called MAKOplasty®. All of the procedure's key components – including a robotic arm and minimally-invasive resurfacing knee implants – were designed in SolidWorks® 3D CAD software.

Based on more than 200 licensed or owned patent applications and patents, MAKOplasty enables orthopedic surgeons to treat patient-specific, early- to mid-stage osteoarthritic knee disease with consistent, reproducible precision. The procedure employs the MAKO Tactile Guidance System™ (TGS™), a proprietary, FDA-cleared surgeon-interactive robotic arm system that controls surgeons' movements through the use of tactile resistance technology. Computer-generated virtual surfaces guide surgeons and the robotic arm along their planned path and focus cutting on patient-specific 3D visualizations, based on pre-operative imaging. The surgeon can confidently make complex tissue-sparing and bone-conserving cuts. Any necessary adjustments can be made during the operation, and patients stand to recover faster.

The Fort Lauderdale, Fla., [MAKO Surgical Corp.](#) used SolidWorks software to design the TGS, which uses proprietary cable-drives instead of gears to make the robotic arm extremely human-interactive, enabling very high-fidelity tactile response. Knee replacement doesn't have to be 'total'.

“The implants and instruments benefit from SolidWorks' improving surfacing capabilities, and the TGS design benefits from SolidWorks' large assembly and motion simulation capabilities,” said MAKO CTO, Senior Vice-President and Co-founder Rony Abovitz. “We also use SolidWorks to design the virtual volumes – the safe cutting zones, if you will – that guide the surgeon in reshaping patients' bone surfaces prior to implanting. SolidWorks handles all of these jobs well, and the software is easy for our engineers to learn no matter what platform they've learned on.”

The MAKOplasty design effort has been under way since 1997, tracing its surgical navigation and medical robotics roots to a wide range of licensed and internally developed technologies, notably the MIT Artificial Intelligence (AI) Lab, Northwestern University's Lab for Intelligent Machines, and The Cleveland Clinic. One of the original seats of SolidWorks was used by William Townsend, CEO of Barrett Technology and the co-inventor of core cable-drive robot technologies (WAM™ arm) at the MIT AI Lab.

“Bill Townsend introduced me to SolidWorks co-founder Jon Hirschtick in the late 1990's – the two had been friends for some time. Since the introduction, we have had a long connection and affinity with [SolidWorks](#) – the karma is good, and the results we have produced to date with it have been great,” said Abovitz.

SolidWorks Corporation Vice President of Worldwide Marketing and Strategy Rainer Gawlick said, “MAKOplasty represents a substantial leap in the state of the art, one that stands to benefit a vast and rapidly growing population. It will be interesting to see patients benefit and the company gradually expand its range of robotic arm-assisted procedures.”

MAKO Surgical relies on authorized SolidWorks reseller The [SolidExperts](#) for ongoing software training, implementation, and support.

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CIMdata PLM Industry Summary

Namura Shipbuilding Orders Additional Licences of AVEVA Software

14 July 2008

AVEVA announced that Namura Shipbuilding Co., Ltd. has recently increased their number of licences for AVEVA software.

Namura Shipbuilding Co., Ltd., a shipbuilder with a history dating back to 1911, specialises in bulk carriers, tankers and LPG carriers. Current notable ships on order are 250,000dwt very large ore carriers named "WOZMAX". The first WOZMAX is scheduled to be delivered in 2010.

Tomoyuki Yamasaki, Executive Officer, Senior General Manager of Design Department, Namura Shipbuilding, said:

"We see great value in [AVEVA solutions](#) in reducing initial and production design man-hours plus increasing overall efficiency in our shipyard. Furthermore, we have great trust in AVEVA's technical support."

Peter Finch, President, AVEVA Asia Pacific, said:

"For five decades, Japanese shipbuilding companies like Namura have contributed to the advancement of maritime transportation and the world's economic development. But with new challenges posed by competitors, they need the qualities that AVEVA solutions offer to sustain a competitive advantage."

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Ricoh Adopts Cadence Encounter Platform For Digital IC Design

15 July 2008

[Cadence Design Systems, Inc.](#) announced that Ricoh Company Ltd. has started to adopt Cadence Encounter RTL-to-GDSII system for digital IC design. Following intensive evaluations, Ricoh established a new design flow based on the Cadence® solution, achieving significant improvements in design productivity and turnaround time.

"As a consumer electronics industry leader, Ricoh is focused on getting innovative products to market first," said Kazunobu Sugaya, manager, Design Engineering Section, Imaging System LSI Development Center, Electronic Devices Company, Ricoh. "Using the Cadence Encounter® digital IC design flow, we are able to gain greater productivity and faster time to market for digital IC design. This is critical as we drive next-generation, large-scale complex chips targeted for advanced process technologies."

After the digital IC evaluation, a new design flow was developed based on the holistic Cadence Encounter RTL to GDSII system. This logic design and physical implementation flow includes Encounter RTL Compiler synthesis, Conformal Equivalence Checker, First Encounter Silicon Virtual Prototyping and SOC Encounter. A key driver in the decision to standardize on the Cadence Encounter Platform was the significant improvement in efficiency and cycle time enabled by a front-to-back holistic solution that bridges the gap between front-end designers and back-end designers. The streamlined design flow enabled reduced iterations through large-scale, top-down RTL-synthesis based on direct physical interconnect timing and through improved management of complex multi-mode, multi-corner timing constraints.

Ricoh is now starting to evaluate the Si2 Common Power Format (CPF)-based Cadence Low-Power Solution, which they expect would support the Ricoh 'Eco Management' initiative to reduce power

consumption in electronic devices.

"Ricoh's decision to upgrade their longstanding digital implementation solution with the Cadence Encounter Platform is a strong endorsement of our recent aggressive technology advancements and our ability to provide differentiated solutions for low-power and advanced node designs," said Chi-Ping Hsu, corporate vice president, IC Digital and Power Forward. "We are confident with our focused advanced technology developments to continue the Cadence leadership in advanced node and low power designs."

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Saab Aerosystems Selected Teamcenter MRO for Handling its Customer Support

14 July 2008

Siemens PLM Software announced that [Saab Aerosystems](#) invested in Teamcenter® MRO (maintenance, repair and overhaul) as an addition to their existing Teamcenter installation in an effort to reuse all product data for customer support.

Saab Aerosystems, a business unit within the Saab Group, invested in Teamcenter four years ago for its product data management of the fighter plane JAS Saab 39 Gripen with a focus on reducing development time and annual costs. Today's announcement adds even more value to Saab's original investment and increases its active users to a total of 2,200 seats.

"We are very proud to continue our cooperation with Saab Aerosystems," said Arie van Essen, vice president and managing director, Nordics and Russia, [Siemens PLM Software](#). "This new investment highlights the quality of our Teamcenter software and the solid relationship we have with Saab Aerosystems, an organization that is a very mature adopter of PLM."

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Siemens PLM Software-Sponsored Joe Gibbs Racing Driver Kyle Busch Dominates First Half of NASCAR Season

18 July 2008

Siemens PLM Software announced that Siemens PLM Software-sponsored Joe Gibbs Racing® – whose cars are developed with the help of Siemens PLM Software technology – dominated the first half of the season with driver Kyle Bush's 14 victories, including seven NASCAR Sprint Cup Series Races.

Busch, the current NASCAR Sprint Cup Series points-leader, won three of the last four Sprint Cup Series races including back-to-back wins at the LifeLock.com 400 at Chicagoland Speedway and Coke Zero 400 Powered by Coca-Cola at Daytona International Speedway. Busch's seven Sprint Cup Series wins in 2008 is the most among all drivers. In addition to the seven wins, Busch has had 12 top-5 and 13 top-10 finishes.

Joe Gibbs Racing has eight Sprint Cup Series wins in 2008, the most of any team. Denny Hamlin, Busch's teammate, won the NASCAR Sprint Cup Series at Martinsville to add to Busch's seven wins.

Busch's success is not limited to the Sprint Cup Series; he also has five Nationwide Series wins and two Craftsman® Truck Series wins, for a total of 14 victories this year.

"Siemens PLM Software congratulates Kyle Busch, Joe Gibbs Racing and Toyota® for their dominant

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performance through the first half of the year,” said Dave Shirk, executive vice president of Global Marketing for Siemens PLM Software. “Siemens PLM Software is proud of our relationship with the racing teams and along with our customers is pleased to know that our solutions help the teams succeed.”

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Siemens PLM Software-Sponsored KB Racing Driver Greg Anderson Wins Three in a Row

18 July 2008

Siemens PLM Software announced Greg Anderson of KB Racing – whose cars are developed with the help of Siemens PLM Software technology – won the National Hot Rod Association® (NHRA®) Pro Stock series Mopar Mile-High NHRA Nationals.

Anderson, the three-time NHRA Pro Stock world champion and the 2005 Speed Channel Driver of the Year, has now won three consecutive national events and five overall this season to continue to add to his points lead. In addition to the Mopar Mile-High NHRA Nationals, Anderson also won the Summit Racing Equipment NHRA Nationals and the NHRA Supnationals.

KB Racing is one of the most successful teams in professional motor sports. After winning the 2003 championship with Anderson as the team driver, KB Racing added a second car with Jason Line in the driver seat for the 2004 season. The team continued their success with Anderson winning the 2004 championship and Line taking second place and being named 2004 NHRA Rookie of The Year. In 2005, Anderson joined an elite group of drivers with a third straight Pro Stock title and Line took third place. The team’s success continued in 2006 as Line won the championship and Anderson placed second.

KB Racing uses NX™ digital product development software to design, analyze and manufacture new engine components. The team actively trades data back and forth with its engine shop and uses new data to refine existing designs.

“Siemens PLM Software congratulates Greg Anderson and KB Racing for winning three in a row,” said Dave Shirk, executive vice president of Global Marketing for Siemens PLM Software. “Winning consecutive races requires tremendous focus and commitment, qualities which are common to both KB Racing and Siemens PLM Software. We are proud of our relationship with the racing teams and along with our customers are pleased to know that our solutions help the teams succeed.”

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SofTech’s ProductCenter PLM Solution Selected by Fluidigm Corporation

15 July 2008

[SofTech, Inc.](#) announced that its ProductCenter™ PLM solution has been selected by Fluidigm Corporation of South San Francisco, CA. Fluidigm is a developer, manufacturer and supplier of integrated fluidic circuits (IFCs) to the life sciences market.

Fluidigm will utilize ProductCenter for management of its SolidWorks® product design data; process automation including electronic change notification (ECN) through ProductCenter Workflow; and engineering BOM data management with a link to the corporate ERP system. “With its ability to access accurate product data, ProductCenter should significantly improve Fluidigm’s current data management processes. We expect increased productivity as well as improved data integrity and reduced costs using

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ProductCenter,” states Brandon Ripley, Senior Electrical Engineer at Fluidigm. “ProductCenter and its reporting tools should streamline our ECN process and enhance our product release practices.”

ProductCenter’s integration to SolidWorks, its customizable Web Client interface and SofTech’s Customer Support organization contributed to Fluidigm’s selection.

About Fluidigm Corporation

Fluidigm develops, manufactures and markets proprietary Integrated Fluidic Circuit (IFC) systems that significantly improve productivity in life science research. Fluidigm’s IFCs enable the simultaneous performance of thousands of sophisticated biochemical measurements in extremely minute volumes. These “integrated circuits for biology” are made possible by miniaturizing and integrating liquid handling components on a single microfabricated device. Fluidigm’s IFC systems, consisting of instrumentation, software and single-use IFCs, increase throughput, decrease costs and enhance sensitivity compared to conventional laboratory systems.

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Sukhoi Civil Aircraft Company Debuts Russia’s First Paperless Aircraft Using Siemens PLM Software’s Teamcenter Collaboration Solution

14 July 2008

[Siemens PLM Software](#) announced that its Teamcenter® software suite enabled the production of Russia’s first internationally-designed and manufactured, paperless aircraft. Sukhoi Civil Aircraft Company’s Superjet 100 (SSJ100) marked its maiden flight on May 19, 2008.

Russia’s new entry into the competitive and rapidly growing global regional jet market involved an international team of international partners and world-class aircraft systems suppliers throughout Western Europe and the United States. The goal for SCAC was to bring all system suppliers into a virtual enterprise on a global platform, implementing the latest design and manufacturing technology. The end result is an aircraft that consumes 10 percent less fuel than its nearest competitor, has a 10 percent lower overall cost of ownership and has the lowest price in its class. The SSJ100 also offers unprecedented passenger comfort in the regional jet category, with wider seats, wider aisles and larger storage bins.

To create this industry-leading aircraft, Sukhoi Civil Aircraft Company and its partners worked within a single master data warehouse enabled with Teamcenter that included all 3D models and related data to completely define and digitally mock up any aspect of the SSJ100. This warehouse, or platform, enabled the company to create Russia’s first aircraft from a paperless design process.

Siemens PLM Software’s Teamcenter software suite was central to SCAC upgrade effort and was among key factors in achieving first flight in a fast-paced development program for the SSJ100 regional airliner.

Teamcenter helped coordinate the efforts of approximately 1,700 engineers and manufacturing specialists in more than eight locations with a world-class team of partners across the globe.

“We set out with an aggressive plan and succeeded because of our collaboration with partners and suppliers powered by Teamcenter,” said Viktor Soubbotin, President, Sukhoi Civil Aircraft Company. “The collaborative technology played a central role in bringing the SSJ100 into the air faster and at lower cost.”

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“Teamcenter gave SCAC a single synchronized knowledge platform for designing and manufacturing,” said Paul Vogel, senior vice president and managing director for Europe, Middle East & Africa, Siemens PLM Software. “In large, geographically distributed projects, like SSJ100 everyone should work with a single source of data to keep the control over all design changes during production. Watching and working with Sukhoi over the course of the design process has been inspiring. We, in a sense, provide the paint brush and palette, but the designers at SCAC and their partners around the world are the artists. And they truly have created a masterpiece in their first global effort and they’ve done it in record time.”

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Product News

Agilent Technologies Announces Industry’s First HiSIM2.4 Model Extraction Package for DC, RF Parameters

14 July 2008

Agilent Technologies Inc. announced the release of the first commercially available [HiSIM2.4 Model Extraction Package](#) for DC and RF parameters for advanced complementary metal oxide semiconductor (CMOS) device models. The package, for use with Agilent’s Integrated Circuit Characterization and Analysis Program (IC-CAP) software platform, provides an efficient and customizable method for measuring and extracting accurate DC and RF parameter values for the HiSIM2.4 model.

The HiSIM2.4 device model, developed by Hiroshima University in Japan, is one of the next-generation, industry-standard CMOS compact models for circuit simulation. CMOS devices are used in a wide range of consumer products such as microprocessors, memory and communication applications. Earlier compact models, such as the BSIM4, were primarily developed for digital circuits and have limitations when used for analog and RF applications at smaller technology nodes. The HiSIM2.4 model calculates the device’s surface potential, enabling a more accurate description of the deep sub-micron physical phenomena and resulting in a more accurate description of the internal currents and charges.

“Creating accurate device-simulation models for advanced CMOS digital processes is problematic because gate accumulation and tunneling, trap-assisted tunneling, and halo effects are observed at smaller technology nodes,” said Roberto Tinti, product manager with Agilent’s [EESof EDA](#) division. “Circuit designers can use Agilent’s HiSIM2.4 Model Extraction Package to accurately predict the behavior of highly non-linear RF circuits, such as mixers, amplifiers and switches.”

IC-CAP provides an open and flexible environment for measuring and extracting device models for a broad range of process technologies, including CMOS, BJT and HBT on silicon and compound semiconductors. The HiSIM2.4 package -- the latest in Agilent’s series of IC-CAP Device Model Extraction Packages -- gives designers the ability to automatically generate a complete device model for DC and RF parameters or adapt the package to meet specific modeling needs.

The HiSIM2.4 Model Extraction Package provides a high-speed link to Agilent’s Advanced Design System (ADS) software. ADS supports the latest version of the HiSIM2.41 model, which is necessary to generate an accurate extraction of DC and RF parameters.

For more information about IC-CAP, visit <http://www.agilent.com/find/eesof-iccap>.

For more information about the Agilent HiSIM2.41 Model Extraction Package, visit <http://www.agilent.com/find/eesof-hisim24>.

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Cadence Expands System-Level Offerings with Introduction of C-to-Silicon Compiler

14 July 2008

Cadence Design Systems, Inc. introduced Cadence® C-to-Silicon Compiler, a high-level synthesis product that improves designer productivity up to 10 times in creating and re-using system-on-chip IP. The technology in C-to-Silicon Compiler helps bridge the gap between register transfer level (RTL) models—commonly used to verify, implement, and integrate SoCs—and system-level models, usually written in C/C++ and SystemC.

"Earlier this year Cadence outlined its strategy to expand into the system-level adjacency under a major internal initiative we call 'Sydney,'" said Jim Miller, executive vice president, Products and Technologies Organization, at Cadence. "C-to-Silicon Compiler is the first new product we're delivering as part of that holistic vision to enable customers to reduce iterations between system specification and design implementation and improve designer productivity for IP creation and re-use, which is particularly important in the consumer, wireless, and wired networking market segments."

C-to-Silicon Compiler enables engineers to design at a higher level of abstraction and helps automate the analysis of hardware micro-architecture. Designer productivity is improved because the technology automatically translates and optimizes abstract behavioral descriptions from C/C++ and SystemC to synthesizable Verilog® RTL (including assertions) for implementation, verification and SoC integration.

C-to-Silicon Compiler has two very distinctive capabilities: embedded logic synthesis using Cadence Encounter® RTL Compiler global synthesis that ensures high accuracy and high-quality implementation results for designs with mixed control and datapath, and a behavior-structure-timing database that provides the ability to perform true incremental synthesis, for example re-synthesizing only the parts of the design that changed, while leaving the rest untouched. Finally, to support verification, C-to-Silicon Compiler generates fast cycle-accurate hardware models of the RTL, and supports fast mapping to RTL verification with Incisive® simulation and Palladium®/Xtreme® emulation-acceleration products.

The C-to-Silicon Compiler technology was developed with significant input from customers, such as Hitachi and Renesas, who are developing IC products starting with system-level IP.

"From the early stage, Renesas has been evaluating C-to-Silicon Compiler and providing extensive guidance to Cadence in its development," said Hisaharu Miwa, general manager of Design Technology Div., LSI Product Technology Unit, Renesas Technology Corp. "We have found that C-to-Silicon Compiler improves significantly upon the existing RTL base design flow, and we recently applied it to several new IP designs, with significant productivity gains for Renesas engineers."

"Hitachi has partnered with Cadence on the development of C-to-Silicon Compiler for more than two years, and we are very pleased with the results," said Teruhisa Shimizu, center manager of Design Platform Center, MONOZUKURI Innovation Operation, Hardware MONOZUKURI Division at Hitachi, Ltd. "We are now planning to use C-to-Silicon Compiler in several production designs. The machine-generated RTL is equal to or better than the RTL generated manually, but with much less effort. We anticipate this new technology will substantially increase productivity and quality improvement in developing new System design at Hitachi."

The Cadence C-to-Silicon Compiler is available now in limited production. C-to-Silicon Compiler will

be demonstrated during the DA SHOW/CDNLive! conference starting July 17. For further details, go to <http://www.cadence.com>.

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Cimatron's Microsystem Offers GibbsCAM in Italy

10 July 2008

Cimatron Limited announced that Microsystem Srl., its Italian subsidiary, is now selling and supporting the GibbsCAM advanced machining software solutions in Italy.

The Italian subsidiary is joining other Cimatron subsidiaries and representatives around the world in offering the GibbsCAM solutions, following the merger of Cimatron and Gibbs and Associates earlier this year. Microsystem has a strong presence in the Italian market, with over twenty years of delivering best-in-class solutions to thousands of Italian manufacturers. Microsystem's headquarters are located in Bologna, with additional sales and support offices in Italy's main industrial centers, including Milan, Treviso and Ancona.

GibbsCAM solutions provide a broad range of CNC programming capabilities for milling, turning, mill-turn, rotary milling, tombstone-fixtured, wire-EDM, and multi-turret/multi-spindle machining. Modeling functionality tuned specifically for manufacturing supports the creation and manipulation of wireframe, surface, and solid geometries.

Featuring an intuitive user interface, built-in associativity, and simulation capabilities, GibbsCAM empowers manufacturers to increase productivity and elevate responsiveness to customer requirements and design changes.

GibbsCAM supports controllers and machine tools from leading vendors including GE Fanuc, Infimatic, Siemens, Doosan Infracore, Haas, Index, MAG Fadal, Matsuura, Mazak, Mitsubishi, Mori Seiki, Nakamura Tome, and Tornos.

"Microsystem is a great match for GibbsCAM," said Ira Bareket, Vice President of Sales and Marketing, Cimatron. "Over the last two decades Microsystem has established a dominant position for CimatronE CAD/CAM solutions among Italian toolmakers. Their knowledge of the industry and strong position with Italian manufacturers make them an ideal channel for selling and supporting the broad range of GibbsCAM solutions."

"The GibbsCAM solutions can help Italian manufacturers of discrete parts compete more effectively both locally and in the global marketplace," said Microsystem's President Enrico Gardini.

"GibbsCAM's reputation in production, especially in multi-task machining, is rapidly growing in Italy and the rest of Europe and we look forward to playing a key part in GibbsCAM's expansion."

During July, Microsystem will hold a series of seminars in four cities across Italy to introduce the GibbsCAM solutions:

10 July: Calderara di Reno (Bologna)

11 July: Chieti

15 July: Treviso

17 July: Milan

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For more information about these seminars, please contact the Italian Head Office:

Microsystem s.r.l.

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Italy

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Tel: +39 051 4145611

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Conformia Announces Design Suite for Pharmaceutical Product/Process Operations

17 July 2008

Conformia introduced the Conformia Design Suite, a Web-based software solution that automates the design of new drugs during the lab scale environment. The Design Suite completes Conformia's Product and Process lifecycle management offering for Pharma by providing full capabilities from Lab to Launch. Companies will be able to reduce cycle time, cost, and risk across the multi-year and multi-site global development lifecycle. For the first time, using the Conformia Design Suite, chemical, pharmaceutical and biologics teams of scientists can leverage a centralized knowledge repository to view, share and store information, as well as automate experiment test runs. As a result, companies gain greater control and design of experiments, and can begin implementing the ICH Quality Vision.

"With the introduction of the Conformia Design Suite, companies can achieve new levels of collaboration and efficiency," said Joe Prang, CEO of Conformia. "Conformia continues to set standards in automated, Web-based solutions that simplify the design, development and transfer of knowledge in pharmaceutical design."

The Conformia Design Suite offers a breadth of features around the early design of drug experiments, enabling teams from various divisions of the enterprise to collaborate, increase knowledge regarding why certain processes were followed and assess decisions made in the overall process. The Design Suite also maintains a critical history of the process and products created, including the quality aspects essential for implementing Quality by Design approaches. Furthermore, the Design Suite offers connectivity to the supply chain capabilities in Conformia's Develop and Transfer suites such that supporting information such as qualification of suppliers and process analytical technology (PAT) results about the new drug are maintained on a single information platform across the lifecycle.

The Conformia Design Suite is built on the Conformia's Service-Oriented Architecture (SOA)-based PPLM platform, which provides alerts, workflows and audit trails to improve visibility and scientific outcomes during product development. By extending these PPLM capabilities into the R/D design space, the Design Suite provides users a clear structure from the outset of a project through bringing the product to market. Conformia Design Suite users can carry out planning and risk analysis across projects, including a scale to qualify potential risks. By automating design experiments, Design Suite users also remove time-consuming, manual re-test processes.

Conformia created the Design Suite solution in response to the success of its industry "Ace Case Study," a document designed to help pharmaceutical organizations implement quality standard guidelines from

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the International Conference on Harmonization (ICH) Quality Vision. Conformia established a Cooperative Research and Development Agreement (CRADA) with the U.S. Food & Drug Administration and through repeat success with their initial CRADA work; the CRADA was expanded in 2007 to include development of case studies and formed the CMC-IM working group. This working group was a collaborative effort between Conformia, GSK, Abbott, AstraZeneca, and Eli Lilly to create a mock example of a drug molecule Acetriptan spanning the product/process lifecycle under the new ICH Guidelines. The example was a big hit across industry and has served as an example of how a company might interpret the application of the ICH Quality vision to the Pharmaceutical Development Program.

"One component of this paradigm is the knowledge management across the lifecycle and Conformia's Design Suite is the first software system to embody key elements of the Quality by Design paradigm and will help companies achieve the benefits of the ICH Quality Vision," said Anjali Kataria, founder and CMO of [Conformia](#). "While it isn't going to bring the entire paradigm to life, it certainly will assist companies in more rapidly adopting the paradigm by filling critical information and knowledge management gaps across the product and process lifecycle, and will help bring other technologies forward such as PAT, platform based development, Design-Automation and analysis tools."

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CONTACT Software Integrates Adobe Standards into CIM DATABASE

16 July 2008

CONTACT Software GmbH chooses Adobe's industrial standard PDF as its key element in its strategic effort to support the development process via open access viewing formats. The company plans to utilize the achieved benefit via integration within CIM DATABASE as the central data-hub for the product lifecycle for all workstations. Decisive is the server-based, validated, process-driven generation of 2D and 3D PDF formats to visualize a virtual product. In conjunction with the procedural safety of a PDM/PLM system, the universal format grants direct access to all current product data. By such means, both in-house collaboration and customer and partner productivity may be vastly enhanced – especially when dealing with complex, distributed projects within the automotive, fabrication & assembly and electronics & high-tech industries.

“We appreciate CONTACT's initiative in providing manufacturing industries the unimpeded utilisation of the PDF format within the product development process”, says Ulrich Isermeyer, Senior Business Development Manager Acrobat with Adobe Deutschland. "The advantages e.g. of PDF/A for long-term archiving of drawings and 3D PDF for the user experience of the virtual product model perfectly supplement a PLM platform that provides such documents in a validated environment."

CONTACT's commitment to companies with Multi-CAD environments and others that rely on open, widely-used standards supports the latest version Acrobat 9 in a novel way. With the optional function of the so called BRep presentation, 3D data may be embedded with perfect geometric parameters within a PDF and can then be exported to a CAD system for later modifications. Further elements of CONTACT's PDF strategy comprise integrated Markup & Redlining as well as Content Mapping, which designates the reciprocal enrichment of the PLM product structure and the 3D PDF model structure.

Integrated Markup & Redlining offers applicants the option to selectively insert commentaries within their usual working environment. But CIM DATABASE can also separate commentaries from original documents, allowing annotations on validated and therefore otherwise unalterable documents.

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Furthermore, CONTACT's Content Mapping technology provides a real-time mashup of PLM system data and the content of the 3D PDF model. By doing this, users may discern within a 3D model in Acrobat Reader, which product components have already been validated. CIM DATABASE synchronizes its product data model with the viewed 3D model.

Regarding the significance of PDF, Frank Patz, head of development with CONTACT Software, summarizes: "PDF as a public document technology will play an ever increasing role with both our customers and the PLM environment in general."

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Corel Unveils Corel DESIGNER® Technical Suite X4

16 July 2008

Corel Corporation unveiled Corel DESIGNER® Technical Suite X4, the latest version of the company's technical graphics software. Created specifically to address the technical illustration workflow, the suite enables users to create technical documentation, instructional manuals, maintenance references and technical diagrams with exceptional precision and speed. Corel DESIGNER Technical Suite X4 is now available in English, French, and German.

Unmatched by any other technical graphics package, Corel DESIGNER Technical Suite X4 provides file compatibility, including 3D design formats and AutoCAD® DWG and DXF™, while delivering precision tools for illustration, bitmap-to-vector tracing, and professional photo editing. This comprehensive suite also offers an optimized workflow, multi-language support, and easy network deployment.

"Corel DESIGNER Technical Suite X4 was developed with the needs of technical illustrators in mind. The integration of professional illustration, photo editing, and bitmap-to-vector conversion tools in one package provides technical illustrators with the most comprehensive solution for completing complex projects with greater precision and efficiency," said Klaus Vossen, Product Manager for Corel DESIGNER Technical Suite.

Customers Benefit from Intuitive Tools and Precision Controls

Corel DESIGNER Technical Suite X4 continues to offer a complete and affordable technical graphics package. The latest version of the suite includes Corel DESIGNER X4 for precise technical illustration and layout; CorelPHOTO-PAINT® X4 for professional image editing; Corel® PowerTRACE™ X4 to convert bitmaps and legacy paper documents into vector graphics; Right Hemisphere® Deep Exploration™ 5.5 CSE to convert 3D CAD models into accurate 2D graphics; and Corel CAPTURE™ X4 to create screen captures, an integral component of many technical documents.

In addition to these core applications, Corel DESIGNER Technical Suite X4 offers more than 80 new and enhanced features designed to streamline the creation of technical illustrations.

Access Technical Design Assets

- Access 3D CAD data directly with the new, integrated 3D CAD import application
- Quickly unlock data in legacy blueprints by using centerline tracing in the new Corel PowerTRACE
- Leverage RAW camera files from more than 300 camera models with interactive controls to preview adjustments in real time

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- Enjoy compatibility with commonly-used and industry-standard file formats, including new and enhanced support for AutoCAD® DWG and DXF, PDF 1.7, PDF/A, as well as Microsoft® Office Publisher and JPEG 2000
- Take advantage of the enhanced Windows Vista® integration to easily organize projects and search for files

Create Better Technical Diagrams

- Communicate more effectively with clearer visual pieces created with new and enhanced diagramming tools
- Import the latest Microsoft® Visio® formats to ease collaboration with colleagues and clients

Streamline the Technical Illustration Workflow

- New technical drawing tools make it easier to identify curves and connector lines and add precision and clarity to illustrations
- Create custom dimensions and dimension styles with advanced control for clearly readable illustrations
- Draw, size, and rotate shapes and lines with precision using the Object Coordinates docker

Discover Advanced Image-Editing Features

- Achieve professional-quality color and tone correction with the new Image Adjustment Lab
- Gain control, improve accuracy, and simplify the process when cutting out image areas with the enhanced Cutout Lab
- Preview image-editing changes in real-time by using histogram feedback available with more features than ever before

In addition to the key applications, Corel DESIGNER X4, Corel PHOTO-PAINT X4, Corel PowerTRACE X4, Right Hemisphere Deep Exploration 5.5 CSE, and Corel CAPTURE X4, Corel DESIGNER Technical Suite X4 includes: Microsoft® Visual Basic® for Applications 6.4; barcode and duplexing wizards, ANSI, DIN, ISO, engineering and architectural templates; and comprehensive symbol libraries containing over 4000 manufacturing, electrical, and architectural symbols.

Pricing and Availability

Suggested retail pricing for Corel DESIGNER Technical Suite X4 is \$999 USD for full product and \$499 USD for the upgrade. Starting today, customers can download the free multi-lingual (English, German and French) trial version from <http://www.corel.com/designer>.

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EDS and Siemens PLM Software Deliver Best-in-Class Defense Logistics Solution

16 July 2008

[EDS](#) and [Siemens PLM Software](#) announced that the two companies have joined to deliver a Defense Logistics Solution that leverages EDS' extensive aerospace and defense (A&D) logistics experience and internationally known IT infrastructure services, along with Siemens PLM Software's Teamcenter® software portfolio.

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This unique Defense Logistics Solution enables aerospace and defense OEMs, suppliers and defense services/agencies to significantly reduce the time, risk and expense associated with fulfilling defense logistics and performance-based logistics (PBL) contracts. Anticipated benefits include improved product quality, by following product configurations into the service stage of the product lifecycle, tracking product/part performance and capturing feedback to improve next-generation products; improving service by leveraging the solution's rules and roles to protect and deliver the most current operational information available; and gaining global support, with the two companies' presence in more than 60 countries around the world.

“As the A&D manufacturer's business ally, EDS brings extensive experience and service expertise in the implementation and management of defense logistics and MRO business activities,” said Joan Davies, EDS segment leader of aerospace and defense. “Together with Siemens PLM Software, we can deliver a best-in-class solution for managing supply chains, support processes, assets and metrics associated with PBL programs, which can be rapidly deployed and operational, while maintaining the flexibility to adjust to varying customer requirements.”

EDS will deliver the logistics and A&D experience, local presence and IT solutions needed to integrate the people, systems and processes required to rapidly deliver a strategically effective solution for PBL programs.

The solution is based on Siemens PLM Software's Teamcenter software portfolio for PLM including maintenance, repair and overhaul (MRO). The new offering is tailored to the needs of organizations that support and service complex, long-lifecycle products such as aircraft, weapon systems, ships and power plants.

“Today's announcement represents a major step forward for our defense industry customers who need to expeditiously fulfill PBL contracts and drive profitability,” said Steve Bashada, vice president of Teamcenter Applications, Siemens PLM Software. “Together with EDS we have created a flexible turnkey offering that will not only streamline the planning and deployment of the IT infrastructure and security requirements associated with PBL contracts, but also greatly simplify their administration. As the leading global supplier of PLM software to the aerospace and defense industry, we are proud to deliver this latest example of our continued industry support and to extend our commitment to deliver full lifecycle PLM from requirements to retirement.”

PBL contracts establish a series of performance metrics that manufacturers, systems integrators and sustainment enterprises are measured against. In order to ensure success and maximize profits, defense contractors need to minimize the time necessary to become operational on any given PBL contract while ensuring they can track, measure and manage their progress with respect to the PBL metrics. To accomplish this, the Defense Logistics Solution combines recently announced service data management and logistics records management capabilities in the Teamcenter solution for MRO, with tailored EDS services and global capabilities.

Visitors to the Farnborough International Airshow will find EDS in the Exhibitor's Club Restaurant & Bar, Hall 1A, and Siemens PLM Software in Hall 4, Booth E17.

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

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Elysium Inc. Releases CADdoctor EX3.0 for Product Data Translation, Verification and Quality

27 May 2008

[Elysium Inc.](#) announced the release of CADdoctor EX3.0, their flagship data verification tool. The latest release includes expanded capabilities for data translation end-to-end throughout product development—from scanned geometry for modeling to surface preparation for molding and manufacturing parts. The new software tools will promote process automation, reduce design and manufacturing times, and greatly improve product data quality.

“For years there has been a digital hand-off of data between the different disciplines of product development,” says Ken Tashiro, Vice President and COO of Elysium. “But all too often behind the scenes the hand-off has been ‘hands-on,’ involving hours of manual, error-prone resurfacing and repairing of models. This is especially true of reverse engineering applications. Our new CADdoctor release eliminates that work and provides high-quality, automated information in suitable form for any design, analysis, or manufacturing task. The new software removes one of the strongest impediments to an all-digital design and manufacturing process and helps companies realize more of the projected gains from integrated digital product development.”

As computer-aided design (CAD), engineering (CAE), and manufacturing tools (CAM) have become more complex, the drive to share data between them has grown stronger. There are, however, serious challenges to sharing because these tools have differing data input requirements. Some, like CAD, need extraordinary detail. Others, like CAE analysis tools, need very specific levels of simplicity. And CAM systems have exacting surfacing and manufacturability constraints.

CADdoctor assists in the translation of data into its most usable form for each application. For instance, a Reverse Engineering Option in the software can read the polygonal data in a stereolithography (STL) file and translate it into a CAD model with valid surfaces and boundaries, and precise geometry, as opposed to an approximation. The resulting data are usable without further repair or re-modeling in CAD, CAE, or even CAM applications for cutting, moldmaking and other manufacturing processes.

Other new options in CADdoctor EX 3.0 include:

_ A Polygon Option that can check and repair holes, “noise,” and other defects that impede easy export of polygonal data from STL files. _ An Advanced Envelope Function that can “shrink-wrap” a 3D model to turn an assembly into a 3D solid, simplifying the surface accurately to share limited data with suppliers, provide the right level of detail for analysis software, or define surfaces for other tools.

_ A Quality Check for Mold Manufacturing Option that checks models for draft angle, undercut, wall thickness, and other manufacturability issues. Early attention to manufacturing requirements in the design data can eliminate man-hours spent modifying molds.

_ A Universal Transformation Option that deforms a model to capture analysis results or springback from stamping.

The software will be available for purchase after May 31. Options are sold separately.

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Geometric Releases GeomCaliper® Version 2.2

15 July 2008

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Geometric Limited announced the release of 2.2 version of 'GeomCaliper® for CATIA® V5' and 'GeomCaliper for Pro/ENGINEER®' products, with enhanced features primarily related to performance improvement.

Major advancements in this release of GeomCaliper for CATIA V5 and Pro/ENGINEER include:

- Code optimization to leverage the computation power of multi-core machines, resulting in a reduction of computation time by approximately 30% on dual core machines as compared to single core machines
- Critical region analysis functionality added to '2D Thickness at Section' and '3D Thickness at Section' tools
- Allows configuration of the thickness color band settings, ensuring every subsequent computation uses the same minimum-maximum values, interval number, pre-chosen band colors, etc.
- 'Outside Range' option in section thickness tools lets users view thickness outside the predetermined range
- New 'GeomCaliper License Manager' tool added making license configuration easy. GeomCaliper for Pro/ENGINEER now also supports Pro/ENGINEER Wildfire 4.0 release.

A free 15-day trial version of GeomCaliper for CATIA and Pro/ENGINEER platforms can be downloaded free of cost from <http://geomcaliper.geometricglobal.com/>

For pricing details and purchase options please contact: gc.sales@geometricglobal.com

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LMS Imagine Unveils National Instruments LabVIEW Real-Time Interface in LMS Imagine.Lab AMESim Rev 8A

16 July 2008

LMS has integrated an interface for the [National Instruments](#) LabVIEW Real-Time module into the latest LMS Imagine.Lab AMESim platform release. This new interface extends the AMESim real-time hardware and software interface portfolio giving the end user more options to control the design process.

With this integrated interface, LMS Imagine.Lab AMESim users will be able to export AMESim models into National Instruments LabVIEW real-time test benches – creating an actual physical system around the AMESim model. Users in the automotive, aerospace and off-highway industries will appreciate this new feature when designing and validating engine control unit (ECU) strategies using hardware-in-the-loop (HIL) test benches.

LabVIEW is a graphical programming platform and development environment from National Instruments. LabVIEW applications range from control design and real-time control to graphical interfaces, data management and data acquisition cards for industrial processes.

LMS Imagine.Lab AMESim simulations can be started directly from the LabVIEW program, known as the LabVIEW virtual instrument. Values can be exchanged between the LabVIEW virtual instrument and the AMESim models during the simulation. Common components, such as buttons and other graphic elements, can be used to develop appropriate graphical user interfaces.

“This new real-time interface in Rev 8A takes LMS Imagine.Lab AMESim a step further. It is a simple but powerful way to export a model to real-time targets and lets users take advantage of NI software features such as the LabVIEW Control Design and Simulation module and LabVIEW Real-Time module,” explained Denis Fargeton, Product Development Director at LMS Imagine.

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“The new interface makes it easy to transfer complex mechatronic models developed with LMS Imagine.Lab AMESim into the LabVIEW software platform and then deploy these models to National Instrument real-time targets,” commented Javier Gutierrez, Product Marketing Manager at National Instruments.

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Magma and Zyvex Instruments Enter OEM Partnership to Provide Faster, More Accurate Failure Analysis for Sub-100-nm ICs

14 July 2008

[Magma® Design Automation Inc.](#) announced a new technology OEM partnership with Zyvex Instruments to provide faster, more accurate failure analysis for sub-100-nanometer (nm) ICs. Under the terms of the agreement, Zyvex will include Magma's Knights Camelot™ CAD navigation software as a standard option to its flagship nanoprobe system, the nProber™. Zyvex selected Camelot as its CAD navigation tool of choice because of its feature-rich functionality and dominant market presence.

The Zyvex nProber is designed and optimized to electrically probe sub-100-nm features on semiconductor devices with increased throughput and ease of use. Camelot works with Zyvex's tool, creating layout views from GDSII or Oasis files, overlaying images on layouts and driving the tool to very accurate X, Y coordinates for device probing and debug. This joint Magma and Zyvex solution allows semiconductor lab and fab analysis teams to more quickly and easily locate potential defects and make corrections faster.

"As semiconductor customers' process technologies shrink, IC design and manufacturing challenges become more complicated, time-consuming and costly," said Randy Schussler, general manager of [Zyvex](#) Instruments. "By providing our customers with Camelot CAD Navigation Software, we can offer them more accurate, higher-throughput and cost-efficient failure analysis solutions."

"Zyvex is the industry leader in nanoprobe technology," said Ankush Oberai, vice president of Magma's Fab Analysis Business Unit. "The combination of NanoWorks® and Camelot makes failure analysis a greater competitive advantage for our mutual customers."

Camelot: Industry Standard for Failure Analysis

Magma's Camelot software system is the next-generation CAD navigation standard for failure analysis, design-debug and yield improvement analysis. Camelot optimizes the equipment and personnel resources of design and semiconductor failure analysis labs by providing computer interfaces and navigation capabilities for more than 50 different types of analysis and test equipment. Its application tools, features, options and networking capability provide a complete, integrated system for fast and efficient investigation and resolution of inspection, test and analysis jobs. Camelot also enables closer collaboration between product and design groups with failure analysis labs, thus dramatically improving time to yield and market.

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Magma Announces Next-Generation Knights LogicMap and IntensityMap -- Enables Cross Mapping to Camelot CAD Navigation Software for Faster, More Accurate Analysis and Debug

14 July 2008

CIMdata PLM Industry Summary

[Magma® Design Automation Inc.](#) announced next-generation versions of its Knights LogicMap and IntensityMap software that enable faster, more accurate semiconductor device failure analysis and debug for logic devices.

The enhanced products offer major improvements in how net failures can be correlated to inline defect data (random defects) and failed net frequency (systematic defects). LogicMap enables logical nets to be translated and normalized into physical coordinates, facilitating correlation of failed nets with any fab inline data. By stacking the results of multiple failed nets from multiple die of the same product and color coding them by frequency, engineers can now identify systematic failure hot spots and focus analysis efforts on these areas.

New, interactive cross-mapping of IntensityMap results with Camelot CAD navigation provides faster, more accurate closed-loop analysis and debug. Validated failed nets can be cross-mapped to layout-vs.-schematic results, and then Camelot tool drivers can drive failure analysis equipment to exact physical coordinates of the failed nets for quicker device debugging. With these improvements IntensityMap accelerates device debugging and turnaround for design optimization.

"The faster the root cause of any chip failure can be identified, the sooner chips can go into full production," said Ankush Oberai, vice president of Magma's Fab Analysis Business Unit. "With LogicMap and IntensityMap, engineers can more quickly and confidently identify the suspect process step using inline defect data and drastically lower the need for physical failure analysis, shortening the failure analysis process and significantly reducing costs."

Next-Generation LogicMap and IntensityMap: Improved Automation, Accuracy and Flexibility

In addition to improving correlation of net failures to inline defect data and cross-mapping to Camelot, LogicMap and IntensityMap enhancements include:

- * Port to Linux, enabling engineers to use higher performance, lower cost hardware
- * Simplified data inputs for improved automation and data accuracy
- * IntensityMap support for zonal analysis and cross mapping with the industry-standard Camelot CAD navigation system improves accuracy and analysis flexibility
- * ATPG support expanded for all primary fault diagnostic tools, including Fastscan, Tetramax, Encounter Diagnostics, TestCompress and Yield Assist. This allows feedback into the implementation flow for device optimization, tying design to lab to fab and providing true design for manufacturability

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Magma Enhances Knights YieldManager With New Bitmap Defect Analysis -- Improves Yield and Time to Market

14 July 2008

[Magma® Design Automation Inc.](#) introduced significant enhancements to Knights YieldManager®, a customizable yield-management software system for semiconductor fab manufacturers worldwide. The enhancements enable fab yield, defect, test and product engineers to collect, correlate, analyze and share inline metrology, test and fab data. With improvements to the bitmap schema and bitmap loader, YieldManager users can now more accurately and effectively correlate electrical bitmap failures to inline metrology and defect data to increase yields and shorten time to market.

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With the introduction of the Enhanced Bitmapping module, YieldManager now provides comprehensive defect bitmap analysis. It collects and stores a larger, richer set of bitmap data measured at different parameters from different testers. It features a powerful new GUI with many new analysis and charting features, including stacked intensity maps that stack the results of many bitmapped dies, and color codes rows and columns failures based upon frequency. These applications and additional new bitmap analysis features make it easier to identify failed bit patterns, separate nuisance and low priority defects from "killer" defects, pinpoint causes of killer defects, and thus increase yields.

"YieldManager saves engineering time and focuses resources by expediting root-cause analysis of failures and eliminating the need to maintain multiple client-server applications throughout the fab," said Ankush Oberai, vice president of Magma's Fab Analysis Business Unit. "With the new bitmap defect analysis capabilities, users can perform more accurate analysis and further improve productivity."

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Magma Introduces New Options for Knights Camelot CAD Navigation, Tightening Links Between Design and Manufacturing -- Faster 'Concept to Reality'

14 July 2008

[Magma@ Design Automation Inc.](#) introduced significant enhancements to Knights Camelot™, the industry-standard CAD navigation system, including an option making Camelot the first CAD navigation tool that enables failure analysis engineers to perform design rule checking (DRC) in the fab. Camelot's new options tighten the link between design and manufacturing, and decrease time to high-volume yield and manufacturing costs of advanced ICs.

"The enhancements and options we're announcing today enable semiconductors to go from concept to reality much faster -- this is the direct result of intense R&D efforts over the last 18 months," said Ankush Oberai, vice president of Magma's Fab Analysis Business Unit. "After nearly 20 years of providing industry-leading failure analysis, CAD navigation and yield management tools, Knights' incorporation into Magma enabled tight integration of IC implementation and fab analysis for true design for manufacturability."

The new On-Line Search Analyzer option speeds and simplifies the search function for failure analysis. One such application improves focused ion beam (FIB) modifications by automating the traditionally manual task of searching for "FIB-able" regions. In this case, the On-Line Search Analyzer performs a three-dimensional search of the layout file for areas where an FIB system can drive a beam through the circuitry to a point of interest that does not intersect or impact underlying geometric structures. This new option integrates Magma's DRC capabilities, making Camelot the first and only CAD navigation tool that enables failure analysis engineers to utilize DRC functions in the fab. With these new capabilities, users can now define applications for a variety of failure analysis and device debug techniques. This flexibility allows them to shorten cycle time for device debug and repair, and to reduce scrap.

The new Hot-Spot Analyzer option analyzes multiple regions in the layout and finds netlist segments that are close to or intersect with these regions. Typically, the regions define photon emissions (emission spots), and the nets in each hot-spot region and number of hot spots for each net are then displayed. This capability shortens the diagnostic process time with Emission Microscope (EMMI) tools.

The new Live Image Overlay option improves the accuracy of fab tool stage mechanisms that align to layout. To address the potential stage inaccuracy of many high-magnification review, analysis, probe and scanning electron microscope (SEM) tools, the Live Image Overlay option captures an image of the

device under inspection and overlays the image onto the design layout. Using advanced mapping technology, it then determines key common features to both the image and layout and then aligns those features. This alignment between the image and the layout compensates for any stage inaccuracies and enables a tool to accurately utilize the design layout to drive to exact coordinates.

"This integration has multiple business benefits," Oberai said. "Because yield loss is reduced, chips that had to be discarded because they didn't function can now be sold, so lost sales can be avoided. The link between design and failure analysis means designers can spend more time designing and less time verifying that their designs are manufacturable. And the shortened turnaround time means you can get to market faster, which is the most significant advantage of all."

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Magma's Knights Camelot CAD Navigation Solution Now Links to Mentor Graphics YieldAssist Fault Diagnostic Engine

14 July 2008

[Magma® Design Automation Inc.](#) announced it has worked with Mentor Graphics® to create an interface that links Mentor's YieldAssist™ test failure diagnostic engine to Magma's Knights Camelot™ CAD navigation for failure analysis. The interface allows the set of defective nets and locations from YieldAssist to be directly read and displayed inside of Magma's Camelot Navigation system. This integration eliminates any user translation between systems and enables faster and easier failure analysis.

Once in Camelot, failed-net information can be cross-mapped between the layout and the schematic, and communicated to fab and failure analysis tools for fast product debug and device analysis.

"Camelot's design analysis and CAD navigation capabilities are well known within the failure analysis community," said Greg Aldrich, director of marketing for Design-for-Test products at Mentor Graphics. "With the combination of YieldAssist and Camelot our mutual customers get more value from scan-based testing and save considerable time and effort getting to the root cause of silicon failures."

"Our goal is to enable true design for manufacturability by providing effective, streamlined solutions to failure analysis engineers," said Ankush Oberai, vice president of Magma's Fab Analysis Business Unit. "By automating the interface between YieldAssist and Camelot, Mentor and Magma have set a new standard in accuracy and throughput."

YieldAssist: Accurate Results and High Throughput

Mentor's YieldAssist advanced test failure diagnosis tool provides a comprehensive set of functionality to analyze devices that fail manufacturing test. YieldAssist leverages production scan-test patterns generated by Mentor's FastScan™ ATPG tool and TestKompress® test-pattern compression tool and memory test results from Mentor's MBISTArchitect™ to rapidly and accurately identify and isolate yield-limiting defect areas.

YieldAssist has been optimized to provide both accurate results and high throughput. This enables it to be used online during the manufacturing process or in the failure analysis lab.

Camelot: Industry Standard for Failure Analysis

Magma's Camelot software system is the next-generation CAD navigation standard for failure analysis, design-debug and yield improvement analysis. Camelot optimizes the equipment and personnel

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resources of design and semiconductor failure analysis labs by providing computer interfaces and navigation capabilities for more than 50 different types of analysis and test equipment. Its application tools, features, options and networking capability provide a complete, integrated system for fast and efficient investigation and resolution of inspection, test and analysis jobs. Camelot also enables closer collaboration between product and design groups with failure analysis labs, thus dramatically improving time to yield and market.

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Mentor Graphics Announces Support of Model-driven Design for Six Sigma in the Automotive Industry

17 July 2008

[Mentor Graphics Corporation](#) announced that its virtual prototyping tool, SystemVision™, supports Design for Six Sigma (DFSS) methodologies to achieve cost-effective design innovation by a model-driven development process.

The development process for a product made up of a complex blend of hardware and software, analog and digital signals, sensors and actuators, and a mix of disciplines, such as electrical, mechanical, or hydraulic, is difficult to manage efficiently. At the same time, using physical prototyping to optimize the design for manufacturability becomes prohibitively expensive, cumbersome, and time consuming.

DFSS methodologies combined with model-driven development can result in order-of-magnitude improvements in both productivity and quality when virtual prototyping, automated data collection, and statistical analyses are used to guide the model-driven development process. DFSS is a widely accepted approach to developing products that meet customer needs while minimizing defects. In a DFSS process, Six Sigma principles are applied during the product development process to eliminate potential quality problems before the product goes to volume manufacturing.

The SystemVision tool provides a mixed-signal, multi-discipline modeling/simulation environment that acts as a virtual lab for the design and analysis of distributed mechatronic systems. The SystemVision tool integrates with the Minitab® Statistical Software package by Minitab, Inc., which provides a framework for designing experiments and modeling quality measures. This enables users to access the SystemVision tool's powerful multi-run simulation and analysis capabilities to automate data collection from mathematical models.

“Model-driven development used in conjunction with Six Sigma enables companies to evaluate new ideas, optimize designs for cost and manufacturability, and quickly put new products into production,” said Michelle Paret, Product Marketing Manager, Minitab, Inc. “SystemVision and Minitab together enable Six Sigma practitioners and product developers to run powerful, automated simulations, while varying parameter value sets and operating conditions, to determine the best values to use—those that define a robust system capable of delivering the highest quality at the lowest cost.”

The SystemVision tool leverages industry-standard modeling languages - VHDL-AMS, SPICE, and C - and includes graphical design entry capabilities, modeling and library tools, leading-edge simulation technology, and powerful waveform viewing and analysis tools.

Model-driven development is an approach to design that uses models to specify requirements, verify designs, and generate implementations. It allows each stakeholder to participate in the process at an appropriate level of abstraction, whether at the functional or specification level, architectural level, or

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implementation level. It enables options to be explored and trade-offs to be made at each level and provides a structure for communication between stakeholders such as system architects, system-level and component-level engineers, and Six Sigma practitioners.

The SystemVision tool provides the framework and tools to support such a model-driven development process. The design is managed through a model hierarchy starting at the functional specification stage, moving down through the architectural design stage, and then to the most detailed, component-level implementation stage of the process.

“Systematic experimentation is crucial to investigating the factors that influence product quality. To compete in today's rapidly changing business world, companies must quickly attain high yield, cost-contained, robust results. Model driven development addresses this,” said Darrell Teegarden, director of the system modeling & analysis business unit, Mentor Graphics.

The SystemVision tool provides an ability to specify statistical distributions for any VHDL/VHDL-AMS generic or SPICE parameter, using the values in monte carlo simulations, and post-process the results (e.g., create histograms of measured results, parametric plots of measured results vs. parametric values, etc.) This provides important capability for up-front development of required design parameter tolerances specifications, such as in a DFSS development process.

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Open Text's Enterprise Library Services Certified for Windows Server 2008

17 July 2008

[Open Text](#)TM Corporation announced that its Enterprise Library Services offering has received the Certified for Windows Server 2008 designation. The announcement demonstrates Open Text's continued leadership as an early supporter of the latest Microsoft technologies.

Released in October Enterprise Library Services provide the foundation for a single, trusted repository that delivers integrated records management, metadata management, archive and search capabilities for all business content in an organization including content stored in Office SharePoint Server sites, SAP applications, file systems, email and Open Text content repositories. With Enterprise Library Services, content can be managed, archived and stored consistently across the entire organization, based on a lifecycle defined by records retention and disposition rules and the value of the content to the organization.

"Once again, Open Text demonstrates they are a leading innovator of Microsoft technologies and ECM solutions," said Eric Jewett, Group Product Manager at Microsoft. "With Certified for Windows Server 2008, Open Text customers can be assured that Enterprise Library Services has been tested to perform in mission critical environments, meeting the highest standards of security, reliability and availability; and delivering a superior user experience."

"We are pleased to earn Windows Server 2008 certification for our Enterprise Library Services solution and to meet customer demand for a comprehensive ECM offering on Windows Server 2008," said Jens Rabe, Vice President, Microsoft Solutions Group at Open Text. "This certification continues our global legacy and commitment to deliver leading ECM solutions based on Microsoft technologies."

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RAND Worldwide Launches ProductivityNOW Version 2.0

15 July 2008

RAND Worldwide announced that it has launched an enhanced version of its combined technical support and eLearning web-based portal, for its Product Lifecycle Management (PLM) clients, ProductivityNOW Version 2.0.

ProductivityNOW Version 2.0 is available to the global engineering and design community for Autodesk, Dassault Systèmes, and PTC applications and provides full- and self-service support and eLearning options in a variety of formats to accommodate multiple learning styles and level of detail requirements. ProductivityNOW is designed to assist engineers and designers with resolving their technical application issues and enhance their application knowledge quickly and easily.

A key enhancement in Version 2.0 is in RAND's Searchable Online Learning Objects (SOLO) knowledgebase, which provides learning objects such as instructional articles, video demonstrations, hands-on exercises, and technical notes created through RAND's training and reference materials, as well as frequently asked questions answered by RAND's Certified Support, Consulting, and Technical Training Engineers. The new platform provides a "Category Browse" feature, which uses metadata and relevant taxonomies to categorize eLearning content into browsable and more relevant topic sets. This new feature enables users to browse through content using categories based on functional topics and related training courses. It also assists those that do not know specific feature names or are unsure of the proper keyword searches to perform when seeking content related to their application questions. In addition, SOLO's online courses are now provided with an enhanced course content tree representation designed to better guide users through each of their enrolled courses and allows topics and modules to be bookmarked for future access and reference. The ability to incorporate user knowledge assessments and instructor feedback into courses is now available, which can assist users in ensuring the knowledge presented in each course is retained. Its learning management system also provides greater tracking capabilities to ensure users are taking the opportunity to complete assigned training.

"Our ProductivityNOW clients will see significant enhancements in performance and presentation of our industry leading curriculum in ProductivityNOW SOLO, developed by our ASCENT – Center for Technical Knowledge division," said Joe Oswald, Executive Vice President, PLM Operations, North America and Europe, RAND Worldwide. "These enhancements will provide an improved eLearning experience to our clients, which will ensure easier accessibility to content leading to even faster user productivity."

The ProductivityNOW Version 2.0 platform has been built on a standards-based technology that allows the incorporation of Information Management Systems (IMS) and Shareable Content Object Reference Model (SCORM) compliant content, the standard for developing, packaging, and delivering high-quality training materials for online courses and enabling better learning management tracking capabilities. The platform can also integrate with client systems including authentication systems, such as LDAP and Active Directory, for single sign-on. ProductivityNOW Version 2.0 also provides more flexibility and scalability to create client-specific customized solutions. Uniquely tailored and branded ProductivityNOW portals can be developed to feature learning content specific to a company's design applications.

RAND's existing ProductivityNOW clients will be migrated to the Version 2.0 system on a gradual basis and will be notified of their transition to the new system with login details. New and existing ProductivityNOW users will continue to have access to three package options: SOLO, Support, and

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Support – Premium. The ProductivityNOW SOLO package features RAND’s searchable knowledgebase with learning objects and technical issue resolutions; discussion forum access to share knowledge with fellow application users around the world; previously recorded virtual training seminars; eLearning courses to improve targeted application skill sets; and the option to securely incorporate a company’s own best practices and intellectual property.

The ProductivityNOW Support package features live technical assistance with RAND’s certified product-specific Support Engineers through toll-free phone access; support center-initiated remote desktop sharing, and email case-submission support; online case management tools; searchable problem resolution knowledgebase; and live monthly instructor-led online training seminars.

ProductivityNOW Support – Premium offers the entire Support and SOLO package options, and the added benefits of live chat, customer-initiated remote desktop sharing, and live weekly online training seminars.

To learn more about ProductivityNOW, please visit <http://www.rand.com/productivitynow>.

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Siemens PLM Software Ships Version 4 of Teamcenter Express cPDM

17 July 2008

Siemens PLM Software announced Version 4 of Teamcenter® Express software is available for shipping to customers worldwide. Teamcenter Express is the collaborative product data management (cPDM) component of the Velocity Series™. The latest release adds an embedded project management option and a new shop floor access client.

“The release of Teamcenter Express Version 4 on the Teamcenter unified architecture delivers improved usability and scalability for SMBs,” said Peter Bilello, director of Consulting Services, CIMdata. “Version 4 extends accessibility well beyond the traditional areas of product data management to include significant support for project management and a targeted set of capabilities for data consumers such as shop floor users.”

Teamcenter Express Version 4 features improved collaboration and control for project managers, lead engineers and shop floor users. Two new modules help SMBs streamline their engineering resources and widen access to their product data for project managers, lead engineers and shop floor users.

For project managers and lead engineers, Teamcenter Express Version 4 delivers an embedded project management option that is tightly integrated with the existing standard document management, project-based security and workflow capabilities in Teamcenter Express. This module improves collaboration and control by managing the scheduling of multiple projects and their related tasks, together with resource allocation and the ability to import and export project plans to and from Microsoft® Project.

For shop floor users, such as manufacturing team leaders and machine operators, Teamcenter Express Version 4 delivers a lower cost, optional web client. This streamlined Shop Floor Viewer is specifically targeted at shop floor use cases and delivers the fast access to product data that industry analysts estimate saves engineers 10-12 percent of their time. It includes engineering data searches, “where used” queries to determine product usage and viewing/printing. The comprehensive visualization capabilities include viewing a wide variety of 2D document file types and 3D models as well as the ability to measure and view cross-sections. The Shop Floor Viewer is a cost-effective entry point for all employees who need basic “find, view, print” access to the single source of product data provided by

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Teamcenter Express.

“The addition of these capabilities to Teamcenter Express allows SMBs to streamline project scheduling and extend access to product data to the shop floor, while optimizing the use of their precious IT resources,” Bruce Boes, vice president of global Velocity Series marketing, Siemens PLM Software.

“With each release, we continue to stay dedicated to a preconfigured cPDM tool that is easy to use and deploy for SMBs.”

In addition, Teamcenter Express Version 4 includes several new usability enhancements that speed the user’s learning and adoption curve and improve the efficiency of managing everyday tasks and processes for design-through-manufacturing, from the user’s desktop and across projects and programs.

Teamcenter Express Version 4 is built on, and delivers complete scalability to, the unified architecture of Teamcenter 2007. Teamcenter is a widely-used PLM portfolio with more than 4 million licenses sold.

For more information, visit <http://www.siemens.com/plm/teamcenterexpress>.

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Synopsys and Mattson Collaborate on Advanced TCAD Process Simulation of Technology

15 July 2008

[Mattson Technology, Inc.](#) and [Synopsys, Inc.](#) announced a collaboration to offer calibrated process models for flash annealing equipment used on the 45-nanometer (nm) node and beyond. Through this collaboration, Synopsys' Sentaurus Process models will be calibrated to the Mattson Millios™ flash-assist Rapid Thermal Process (fRTP™) system. As a result, engineers will be able to simulate and optimize process conditions before costly silicon processing, thus lowering development time and cost.

The continual scaling of CMOS technology demands new processing techniques to meet the strict International Technology Roadmap for Semiconductor (ITRS) targets for junction depth and sheet resistance in the source and drain extensions of CMOS transistors -- one of the critical device regions requiring precise process control. To meet this challenge, Mattson has developed the Millios fRTP system, which features a powerful flash lamp and highly accurate temperature control and monitoring that allow engineers to optimize process conditions for simultaneous achievement of shallow junction depth and low sheet resistance. The Millios system combines high throughput, precise process control and process flexibility to provide a high-volume IC manufacturing solution for milli-second annealing.

Sentaurus Process is Synopsys' multi-dimensional process simulator that is part of the TCAD Sentaurus suite. It is equipped with a set of advanced process models that include default parameters calibrated with data from equipment vendors and provides a predictive framework for simulating a broad range of technologies from nanoscale CMOS to large-scale high-voltage power devices. The combination of these technologies creates a powerful solution for optimizing the flash-annealing process using the Millios fRTP system.

"Process technologies are increasingly complex and costly to develop, and therefore TCAD tools with models calibrated to specific process conditions are very important to guide experimentation and process optimization," said Howard Ko, senior vice president and general manager of the Silicon Engineering Group at Synopsys. "Collaborations with leading equipment vendors such as Mattson Technology are a critical component of our strategy to deliver advanced and accurate TCAD tools to the market."

Jeff Gelpey, Mattson fellow, added, "Process development with advanced tools such as Millios becomes

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very time consuming and expensive if done only with experimentation. This collaboration between Synopsys and us enables the use of Sentaurus TCAD in conjunction with models calibrated to our equipment so that the development engineer can optimize the process more quickly and explore many more options."

About Millios

In the nanotechnology era, where chips have features 1000 times smaller than the diameter of a human hair, advanced RTP applications will require annealing that is fractions of, to a few thousandths of, a second in duration. Mattson's Millios Flash-Assist RTP (fRTP) is a next-generation millisecond annealing tool featuring advanced process control and high throughput to meet manufacturing and development needs. The technique offers effective process times of 1-3 milliseconds. The system features a patented arc lamp technology that processes the wafers through millisecond "flashes" (similar to a camera flash), providing improved thermal control for ultra-shallow junction (USJ) anneal and other advanced applications through the 22 nm regime. Millios also combines fully automated wafer handling hardware and software from Mattson's production-proven Helios™ RTP system. Millios was qualified in 2007 by semiconductor and leading nanoelectronics research centers in Europe and the United States.

About Synopsys TCAD

Technology CAD (TCAD) refers to the use of computer simulation to model semiconductor processing and device operation. TCAD provides insight into the fundamental physical phenomena that ultimately impacts performance and yield.

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Synopsys Broadens DesignWare SATA Solution With Device IP

14 July 2008

Synopsys, Inc. announced the availability of the DesignWare® SATA Device IP, for use in applications such as solid state drives, hard disk drives and optical disk drives. Additionally, Synopsys' comprehensive, silicon-proven DesignWare SATA IP solution consisting of Device, Host, PHY IP in 90 nanometer (nm) and 65nm processes, and Verification IP (VIP) has passed the SATA-IO Building Block interoperability testing, demonstrating full SATA functionality from a single vendor. Synopsys provides a comprehensive high quality IP solution helping designers reduce the risk and cost of integrating the SATA interface into their system-on-chip (SoC) designs.

The Synopsys DesignWare SATA Device IP supports transfer speeds of 1.5 Gb/sec and 3.0 Gb/sec with a roadmap to 6Gb/sec, making it ideal for storage applications requiring high system performance. A proven component of the Synopsys Eclipse™ low power solution, the IP implements multiple aggressive power management features which can be utilized to lower the power consumption of the end application. The inclusion of a well-defined, DMA-based software programming interface helps designers achieve optimal system performance while maintaining low latency and minimal software overhead. Furthermore, the supplied example firmware helps reduce the overall software development, integration and maintenance effort.

With the release of the SATA Device IP, Synopsys now offers designers a comprehensive, silicon-proven and fully interoperable SATA IP solution consisting of the Device, Host, PHY and Verification IP. The DesignWare SATA Host Controller supports Native Command Queuing and Asynchronous Notification in up to eight ports. The Host Controller is verified with the industry-standard AHCI

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software drivers provided as part of the Linux and Microsoft Windows Vista operating systems, enabling designers to ease system-level integration. Complementing the Host and Device Controllers is the robust, low power DesignWare SATA PHY, which includes unique built-in diagnostics allowing on-chip visibility into the link performance and ATE test vectors for at-speed production testing. The DesignWare Verification IP helps designers quickly and efficiently create a comprehensive SATA-based environment. In addition, the SATA Verification IP delivers up to 5X performance improvement when used with Synopsys' VCS® simulation tool and is VMM-enabled to help speed the development of powerful SystemVerilog testbenches.

"SATA International Organization (SATA-IO) commends our member companies who are advancing SATA technology by introducing new products that incorporate the advantages of this popular storage interface," said Tom Pratt, SATA-IO board representative. "Fast transfer rates, low cost and efficient protocol have made SATA the mainstream storage interface of choice."

"The requirement for mass storage devices is continuing to grow, with solid state drives estimated to increase at a 76 percent CAGR from 2007 to 2012 (1)," said John Koeter, senior director of marketing for IP and Services at Synopsys. "By providing a complete DesignWare SATA IP solution that offers a strong combination of proven interoperability, low power, and ease of integration features, Synopsys enables designers to integrate the SATA interface into SoC designs with less risk and improved time to market."

Availability

The complete DesignWare SATA IP solution including Device, Host, PHY in 130nm, 90nm and 65nm processes, and Verification is available now. For more information please visit:

http://www.synopsys.com/sata_solutions/

In addition, on July 31 Synopsys will sponsor a free webinar titled, "Achieving Optimal Performance and Low Power for SATA Device Designs" To register, please go to: <http://www.synopsys.com/sata/>

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usb Joins Aras Partner Program

10 July 2008

Aras® announced that [usb GmbH](#), an experienced leader in providing product data management, requirements management, and configuration management solution services, has joined the Aras Partner Program.

usb has been delivering enterprise product lifecycle management [PLM] solution services to companies in aerospace & defense, automotive and high-tech for over 25 years. The highly experienced team at usb includes a combination of computer scientists, physicists, and engineers that provide professional consulting expertise for successful solutions.

"usb is pleased to become a partner in the Aras corporate community. The Aras enterprise open source model is a very innovative way to remove the inherent business risks of a PLM solution deployment," said Detlef Haesner, Managing Director of usb GmbH. "Because of the advanced Microsoft enterprise SOA technology the Aras solution for PLM is ideal for complex configuration management. Aras provides companies of all sizes with real business benefits and clear technology advantages."

"[Aras](#) welcomes usb as a new member of the partner program, and we are glad to have usb's

considerable expertise in configuration management and product lifecycle management solution deployment,” said Martin Allemann, Vice President EMEA for Aras. “usb’s extensive PLM experience will benefit companies across Europe that need professional assistance implementing the Aras solutions in complex environments.”

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Zuken Releases Latest Free Version of the CADSTAR Express

15 July 2008

Zuken has released the latest revision of the free sample download of CADSTAR 10.0 - CADSTAR Express. This fully operational version of Zuken’s desktop PCB design solution includes all the latest features of CADSTAR 10.0, with a limit of 300 pins and 50 components.

Users downloading this tool from Zuken’s website can get a feel for the major advancements in ease of use and reverse engineering featured in version 10.0. The back annotation function for example, now makes file transfer from PCB into schematic a much smoother process, assisting in the efficient management of engineering change orders that are particularly associated with high-speed designs.

To get the most out of CADSTAR Express, Zuken has compiled a Do-It-Yourself Booklet, created to guide the user step-by-step through the solution using design examples.

If you are interested in learning more, please contact your local CADSTAR distributor to find out more about the unlimited versions of CADSTAR solutions.

- Download CADSTAR Express : <http://www.zuken.com/cadstar>
- Locate your local CADSTAR Distributor: <http://www.zuken.com/cadstardistributors>

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