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## Acquisitions

### ***Announcement of Absorption-Type Merger by Alpha Holdings INC.***

7 September 2009

As already disclosed, our holding company, Alpha Holdings INC., will absorb GRAPHIC

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PRODUCTS INC. and COMPUTER ENGINEERING INC. and be a new company "C&G systems Inc.". The merger is expected to take effect on January 1st, 2010.

At the new company, we will continue to provide existing products and services of the two companies and merge technologies from both companies so that we will be able to offer optimized solutions for the entire die/mold industry focusing on CAD/CAM systems as a core. Furthermore, through a new network built by integrating both support systems, we aim to provide high-quality services to our customers.

On this occasion, we intend to develop into a company that can offer greater satisfaction to its customers through reflecting customers' needs in product development more quickly and accurately. We will appreciate your further help and encouragement.

Sincerely yours

Naoyuki Nishino  
President  
GRAPHIC PRODUCTS INC.

(About New Company)

|                |   |
|----------------|---|
| Company Name   | C&G systems Inc.  |
| Representative | Shuji Yamaguchi, President<br>(Current President of COMPUTER ENGINEERING INC.)<br>Naoyuki Nishino, Vice-President<br>(Current President of GRAPHIC PRODUCTS INC.)                   |
| Headquarters   | Tokyo Headquarters<br>(UNOSAWA Tokyu bldg. 1st Floor, 1-19-15 Ebisu, Shibuya-ku, Tokyo)<br><br>Kitakyushu Headquarters<br>(1-5-15 Hikino, Yahatanishi-ku, Kitakyushu-city, Fukuoka) |

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## ***MSC.Software Receives Additional Merger Proposals***

15 September 2009

MSC.Software Corporation announced that, on September 14, 2009, the MSC Board of Directors received revised offers from private equity firms to acquire all of the issued and outstanding common shares of MSC.

As previously announced, on July 7, 2009, MSC entered into an Agreement and Plan of Merger among MSC, Maximus Holdings Inc., a wholly-owned subsidiary of Symphony Technology Group ("Symphony"), and Maximus Inc. (the "Symphony Agreement") under which Symphony agreed to acquire MSC for \$7.63 per share in cash. On September 7, 2009, the MSC Board of Directors received

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an offer from private equity firms to acquire MSC for \$8.00 per share in cash, subject to certain terms and conditions (the "Prior Offer"). In response to the Prior Offer, on September 14, 2009, an affiliate of Symphony Technology Group ("Symphony") made a substantially equivalent offer to acquire MSC also for \$8.00 in cash (the "Symphony Revised Offer"). Shortly thereafter, the parties that made the Prior Offer delivered a revised offer to the MSC Board to acquire MSC for \$8.15 in cash, subject to certain terms and conditions (the "New Offer"). After reviewing the New Offer in light of the Symphony Revised Offer, the MSC Board determined that the New Offer constituted a "Superior Proposal" as defined in the Symphony Agreement.

MSC provided notice on September 14, 2009 to Symphony of the MSC Board's determination that the New Offer constitutes a Superior Proposal and of its intention to terminate the Symphony Agreement and enter into a binding written definitive agreement concerning the New Offer after the expiration of the five business day notice period ending Monday, September 21, 2009 specified in the Symphony Agreement. Under the Symphony Agreement, Symphony has the right to make a responsive offer prior to the expiration of such five business day-period and MSC may terminate the Symphony Agreement only if the [MSC](#) board of directors determines in good faith, after consultation with its financial advisors and outside legal counsel, that the New Offer continues to be a Superior Proposal in light of any responsive offer.

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### ***MSC Software Receives Revised Merger Proposal***

17 September 2009

MSC Software Corporation announced that, on September 16, 2009, the MSC Board of Directors received a revised offer from an affiliate of Symphony Technology Group ("Symphony") to acquire all of the issued and outstanding common shares of MSC for \$8.15 per share in cash, subject to certain terms and conditions (the "Symphony Revised Offer").

As previously announced, on July 7, 2009, MSC entered into an Agreement and Plan of Merger among MSC, Maximus Holdings Inc., a wholly-owned subsidiary of Symphony, and Maximus Inc. (the "Symphony Agreement") under which Symphony agreed to acquire MSC for \$7.63 per share in cash. On September 14, 2009, the MSC Board received an offer from third-party private equity firms to acquire all of the issued and outstanding common shares of MSC at \$8.15 per share in cash, subject to certain terms and conditions (the "Third-Party Offer") and determined that the Third-Party Offer constituted a "Superior Proposal" as defined under the Symphony Agreement.

In response to the Third-Party Offer, on September 16, 2009, Symphony made the Symphony Revised Offer. Pursuant to the Symphony Agreement, MSC may terminate the Symphony Agreement only if the MSC Board of Directors determines in good faith, after consultation with its financial advisors and outside legal counsel, that the Third-Party Offer continues to be a Superior Proposal in light of the Symphony Revised Offer.

The [MSC](#) Board of Directors, in consultation with its financial advisors and outside legal counsel, is carefully considering the Symphony Revised Offer and the Third-Party Offer.

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## Company News

### *Aldous and Tribold form Global Sales and Marketing Partnership*

15 September 2009

Aldous and Tribold have formed a global sales and marketing partnership to deliver an integrated solution that enables Communication Service Providers (CSPs) to reduce timescales across the whole product development and fulfillment lifecycle, and thus reduce costs and increase revenue.

By combining two powerful and unique offerings – Aldous at the front end enabling accurate order creation, for even the most complex products and services, for fulfillment and billing; and Tribold enabling the rapid creation and deployment of products and services in critical support of the order-to-install-to-cash stream – the companies create a compelling cost and time saving proposition for the CSP market.

Aldous CEO, Morris Hodges said “The combination of Aldous’ comprehensive, multi channel order capture suite and Tribold’s enterprise product management capability has been very well received by the CSPs. They are struggling with long lead-times from product conception to taking orders and the inability of their existing order capture systems to consistently deliver “clean tickets” to downstream systems.”

Tribold CEO, John Rainger, said “We are now finding that CSPs are asking for the combination of order capture and product management in a tightly coupled manner to support the order creation process in an increasingly real-time fashion. The combination of our two applications enables the CSP’s customers to select and configure the right products at the correct price, and see those delivered without a hitch.”

The design concepts, delivery methodology, and licensing models behind both Aldous and Tribold make for an agile and rapid solution deployment, focused on early results whilst keeping costs and capex in particular to a minimum.

#### **About Aldous**

Aldous is recognized as a world leader in providing order capture software specifically developed for Communication Service Providers (CSPs).

The Aldous order capture application maximizes the CSP’s ability to sell their whole range of products in the consumer, enterprise and government marketplace. This may be achieved in a single customer interaction and guarantees an order able to be provisioned.

By exposing the business rules up front at the user interface level, ALDOUS dynamically removes invalid options from the choices available to end users ensuring that only provisionable orders are generated and activated. Order accuracy with ALDOUS tends towards 100% and removes the need for manual verification by service delivery teams, eliminates order rework, shortens the sales process and can accelerate service activation. Headquartered in Reading, and with locations in North America, Asia, The Middle East, Australia and New Zealand, Aldous was founded in 1992 and is privately held. For more information visit: <http://www.aldous.com>.

#### **About Tribold**

Tribold is a world leading provider of Enterprise Product Management (EPM) software specifically developed for Communication Service Providers (CSPs). TRIBOLD 3™ is a single, integrated suite of Enterprise Product Management applications that empowers CSPs to put products at the heart of their

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business.

TRIBOLD 3™ is based on a Centralized Product & Service Catalog (CPC) and a Product & Service Lifecycle Management (PLM) solution.

Improvements in product management performance enable CSPs to drive increased profit by reducing time to market, decreased cost to market, increased quality of the product management process and increased ability to support product and service innovation.

Headquartered in London, and with offices in North America and Asia, Tribold was founded in 2003 and is privately held. For more information visit <http://www.tribold.com>.

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## ***Autodesk Offers Wide Variety of Resources and Support for Education Community***

10 September 2009

The beginning of the new academic year is here and [Autodesk, Inc.](#) is expanding its support for students and educators as they return to campus. Autodesk has announced that it is increasing access to its 2010 offerings, valuable curricula and additional resources for student and teacher communities.

With the goal of supporting the next generation of design professionals, Autodesk offers faculty and institutions complete multidisciplinary suites that group the 2010 releases of the latest technologies used by industry professionals around the world. In addition, educators have access to high-quality training resources, including instructor guides, student workbooks, data sets and videos that reinforce key concepts.

Schools that have purchased academic licenses for the Autodesk Education Suites line of products can now offer usage on student- and faculty-owned personal computers, making it easier to maintain consistent and predictable software environments for these groups.

"Our commitment to education among the architecture, design, engineering and digital entertainment fields has gained momentum with our newest curricula and expanded access to our Education Suites," said Joe Astroth, Ph.D., Autodesk vice president of Learning and Education. "Our goal is for faculty to gain the educational resources and technical expertise they need to help students prepare for successful careers. We believe these offerings make a substantial impact."

Autodesk's existing Student Expert Program focuses on arming mechanical engineering, architecture and civil engineering students with the real-world skills that can help them be successful in the workforce. Students are selected based on their exceptional performance and faculty recommendations, and receive hands-on training, while also gaining solid leadership skills and experience. After completing the program, the students can become a valued resource and mentor for their peers on campus.

Future game developers and aspiring film, television and visual effects artists can now create the kind of compelling digital imagery found in Academy Award-winning films and top-selling games with free\* access to [Autodesk 3ds Max](#) software. The [Autodesk Education Suite for Entertainment Creation](#) provides aspiring games, film and visual effects artists with tools used by industry professionals. In addition, [Autodesk Animation Academy](#) combines 3D technology and an arts-based curriculum to help inspire secondary students to explore careers in the arts, entertainment and visualization fields. Through the program, students learn how to visualize and problem-solve through the use of 3D applications while

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studying a broad range of cross-disciplinary topics.

New six-month trials of Autodesk 3ds Max, [Autodesk 3ds Max Design](#) and [Autodesk Maya](#) software are now available for download from the [Autodesk Student Community](#). In addition, students and teachers can download - for free\* - the 2010 releases of 25 full-feature Autodesk titles, access training materials, search for internships and jobs, and share designs with their peers. Since its launch in 2006, the community has grown to more than 775,000 members, representing over 19,000 schools in 139 countries.

By using these Autodesk resources, students can become fully immersed in Autodesk products, helping to give them a competitive advantage as they begin their careers in design and engineering.

## **Autodesk Education Initiatives**

Autodesk supports students and educators by providing design software, innovative programs and other resources. By supporting educators to advance design education and science, technology, engineering and math (STEM) skills, Autodesk is helping prepare students for future academic and career success. Autodesk supports schools and institutions of higher learning worldwide through substantial discounts, subscriptions, grant programs, training, curriculum development and community resources. For more information about Autodesk education programs and solutions, visit [autodesk.com/education](http://autodesk.com/education).

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## ***AVEVA Partners With ECE Design as North American Reseller of AVEVA Instrumentation***

16 September 2009

AVEVA Group plc announced that it has partnered with ECE Design as the North American reseller of AVEVA Instrumentation. The latest release of this product, AVEVA Instrumentation 12.0, will now be sold as a stand-alone product through [ECE Design](#) and also as part of the AVEVA Integrated Portfolio for both EPC Contractors and Owner Operators.

The AVEVA Instrumentation software suite handles all instrumentation needs on a project, as well as managing instrumentation needs well after the completion of a project. In addition to the ease-of-use data interchange, and agility of the IT infrastructure, this tool requires minimal training hours compared to similar products on the market. The software suite includes three integrated modules:

- Instrument Engineer manages tasks typically handled during a project lifecycle, including instrument index data entry and reports. This module also includes process data import/entry, which can be linked to user defined datasheets and Microsoft Excel import/export functionality.
  
- Instrument Designer manages all tasks typically handled by an instrument designer including CAD drawing creation, drawing list management, updating of revisions and printing of CAD files for loop diagrams, termination diagrams and hookups (installation details) with

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bills of materials. This module automates the drafting process and is normally only used by a designer.

- Wiring Manager handles all tasks typically carried out by an instrument designer related to detail cable, wiring and termination design. This includes definition of equipment terminal arrangements (field devices, junction boxes, marshalling cabinet and panel devices such as relays, IS barriers & I/O modules), cable creation and termination, cross-patch/internal wiring, generation of cable schedules and cable, cable gland and cable gland adapter bills of materials and creation of cable block diagrams (without requiring CAD).

An important addition to the AVEVA Plant portfolio, AVEVA Instrumentation is a suite of integrated applications for the efficient specification, design and maintenance of all instrumentation and control systems on a project. AVEVA Instrumentation software suite creates and manages instrumentation design data and documentation including instrument datasheets, loop drawings, termination diagrams, hookup drawings, I/O lists, instrument index, cable schedules, bills of materials, and other reports.

To learn more and see a demo of AVEVA Instrumentation, please visit AVEVA and ECE Design at booth number 2649 at the ISA Expo, October 6-8 in Houston or visit: <http://www.aveva.com>.

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## ***Industry Veteran Pat Gelsinger Joins EMC as President & COO of Information Infrastructure Products; Howard Elias Promoted to President & COO of Information Infrastructure and Cloud Services***

14 September 2009

EMC Corporation announced two senior leadership appointments. Industry veteran Pat Gelsinger has joined the company from Intel Corporation as President and Chief Operating Officer, EMC Information Infrastructure Products. Gelsinger, 48, will be responsible for EMC's Information Infrastructure product portfolio, including its Information Storage, RSA Information Security, Content Management and Archiving and Ionix IT management divisions. EMC also announced the promotion of Howard Elias, 52, to President and Chief Operating Officer, EMC Information Infrastructure and Cloud Services.

Gelsinger and Elias will report to Joe Tucci, EMC's Chairman and CEO, and join the Executive Office of the Chairman. Under their leadership, EMC will continue to strengthen and advance its market leadership for information infrastructure products and services as it marches to address four of the fastest-growing IT market opportunities -- next-generation fully virtualized data centers, cloud computing, virtualized desktops and clients, and next-generation backup and recovery solutions.

Gelsinger joins EMC from Intel where he most recently served as Senior Vice President and Co-General Manager of Intel's Digital Enterprise Group, the company's largest business group accounting for more than half of Intel's annual revenue. Under Gelsinger's leadership, this group is responsible for Intel's

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enterprise products including clients (PC's), Server (Xeon and Itanium), Embedded, Communications, Visualization and Storage products. The group is also responsible for the Nehalem microarchitecture product development.

Howard Elias has served as President, EMC Global Services and EMC's Ionix IT management group for the last three years, overseeing EMC's global Customer Support organizations, Professional and Managed Services, EMC Consulting, and Global Presales and Education Services along with the Ionix resource management software portfolio. Prior to this, Elias was Executive Vice President, Global Marketing and Corporate Development, directing all of EMC's marketing, sales enablement, communications, and technology alliances activities. In that role, he was also responsible for Corporate Development and New Ventures, which focused on mergers and acquisitions, new business development, the integration of acquisitions as well as investments and the incubation of new businesses.

## **EMC Expands Executive Office of the Chairman**

With these appointments, EMC has expanded its Executive Office of the Chairman which, in addition to Joe Tucci and Bill Teuber, EMC Vice Chairman, the Executive Office of the Chairman will now comprise:

- Howard Elias - President & COO, EMC Information Infrastructure and Cloud Services
- Pat Gelsinger- President & COO, EMC Information Infrastructure Products
- David Goulden, 50 - Executive Vice President and Chief Financial Officer

## **Tucci To Remain as EMC's Chairman and CEO Through 2012**

Separately, EMC announced that Joe Tucci has informed the EMC Board of his plans to remain as an active Chairman and CEO through 2012.

## **Background on Pat Gelsinger**

Gelsinger joined Intel in 1979. Prior to his role as Senior Vice President and Co-General Manager of Intel's Digital Enterprise Group, Gelsinger led Intel Labs, which encompasses many of Intel research activities, including leading Corporate Technology Group and Intel Research. As Intel's first chief technology officer (CTO), he managed Intel's longer-term research efforts and helped ensure consistency from Intel's emerging computing, networking and communications products and technologies.

Previously, Gelsinger led Intel's Desktop Products Group, where he was responsible for its desktop processors, chipsets and motherboards for consumer and commercial OEM customers as well as many of Intel's technology initiatives and the Intel Developer Forum. He also led the development of the Intel ProShare video conferencing and Internet communications product line. He was general manager of the division responsible for the Pentium Pro, IntelDX2 and Intel486 microprocessor families. He was also architect of the original 80486 and a design engineer on the 80386 and 80286 processor design teams.

Gelsinger holds six patents in the areas of VLSI design, computer architecture and communications, is a well-known speaker on technology trends and has received a variety of industry recognition awards.

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Gelsing received an associate's degree from Lincoln Technical Institute in 1979, a bachelor's degree from Santa Clara University in 1983, Magna Cum Laude, and a master's degree from Stanford University in 1985. All degrees are in electrical engineering. He is a Fellow of the IEEE (2008) and was awarded an Honorary Doctorate of Letters in 2008 from William Jessup University.

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## ***Lattice Technology Announces r.a.p.s. as a New Reseller***

15 September 2009

Lattice Technology® announced that it has signed up r.a.p.s, a provider of software and services to manufacturers across Sweden, as a reseller.

r.a.p.s. is an eleven year old company, founded in 1998 by Par Nobring, who is now company chairman. The company focuses on providing software and services via well-defined, deadline-driven implementations that deliver precisely to manufacturers' needs. Customers include Faiveley Transport which manufactures brakes for trains, Cargotec for heavy trucks and Klippan Safety which delivers seat safety devices.

“Demand for integrated productivity tools that leverage 3D across manufacturing is rising in Sweden, and XVL and the Lattice Technology products fit perfectly into those needs,” commented Nobring, Chairman, r.a.p.s. “We are excited to be introducing XVL into our customer base this year.”

“As Lattice Technology continues to grow, we are keen to involve talented implementation teams like r.a.p.s.,” commented Bill Barnes, GM, Lattice Technology. “As 3D becomes a key strategy for the entire manufacturing process, XVL is becoming the tool of choice to deliver that. r.a.p.s.’ expertise and reputation in Sweden is a perfect match for us.”

More information about r.a.p.s. can be found at <http://www.raps.se> and at Lattice Technology’s web site at <http://www.lattice3d.com/>

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## ***SAMTECH Opens New Subsidiary in Japan***

16 September 2009

SAMTECH announced the expansion of its presence in Asia by opening SAMTECH Japan in Nagoya. This expansion is due to growing business activities in Japan, especially in the areas of automotive and aerospace. SAMTECH decided to further strengthen its position in Asia with the creation of a second Asian subsidiary located in Nagoya, Japan; the first one being established in Beijing, PR China.

SAMTECH also announced the assignment of M. Matsui as sales and major account manager at SAMTECH Japan. M. Matsui Tamotsu has a proven track record in sales, business development and management across Japan. Before joining SAMTECH, he worked for both Altair and MSC, where he was in charge of several Japanese major accounts in both the automotive and aeronautic industries.

“The creation of SAMTECH Japan is a strong, strategic and symbolic message sent to our customers like Toyota Motor Corporation about SAMTECH’s commitment to initiate a long term partnership.” Said Eric Carnoy, SAMTECH Chief Executive Officer. “This expansion further enhances our capability to provide reliable, timely support for our customers throughout the world. As a Japanese-based CAE

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software partner, we are very proud to help our Japanese customers in maintaining their leading position in their respective field.”

“Our sales records show that SAMCEF Mecano represents the best-of-class commercial CAE software coupling non linear FE analysis and flexible systems for our Japanese customers as well as for Asian customers in general.” Explained Serge Van Den Heuvel, Chief Sales Officer. “The creation of SAMTECH Japan illustrates our commitment to be a leading CAE software developer and partner for Japan, operating from a local base and developing local talent in order to provide our industrial partners with the highest quality of services and support on our software products.”

SAMTECH officially opens its new office on Wednesday 16th September with a reception featuring speeches from SAMTECH Chief Executive Officer Eric Carnoy, SAMTECH Chief Sales Officer Serge Van Den Heuvel and SAMTECH Japan Sales Manager M. Matsui. Customers, prospects, distributors, journalists and local partners as well as the Japanese External Trade Organization (JETRO), Nagoya City and Nagoya University will also attend the event.

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## ***Z Corporation Unveils World's Most Affordable Portable 3D Laser Scanner***

15 September 2009

Z Corporation introduced the world's most affordable portable 3D laser scanner, providing high-resolution 3D data capture to a broad base of users at an economical price.

The ZScanner 600 extends Z Corporation's line of uniquely handheld, self-positioning scanners, which are more portable and easier to use than traditional 3D scanners. ZScanners streamline data capture for reverse engineering, product design, cultural preservation and other applications.

The \$28,900 ZScanner 600 combines these advantages with resolution down to 0.1 mm and XY accuracy up to 80 microns, making it the ideally balanced solution for value-conscious users.

Portability in a 3D scanner provides an enormous advantage in ease of use and breadth of application. Z Corporation's handheld 3D scanners eliminate the need for fixed-position tripods, bulky mechanical arms or external positioning devices, all of which make hard-to-reach surfaces like auto interiors nearly impossible to scan. Unlike these cumbersome apparatuses, the ZScanner 600 fits in a carry-on suitcase.

ZScanners capture data in one continuous scan rather than in numerous shots from fixed positions, eliminating hours of post-processing time to integrate static shots into a cohesive scan. ZScan Lite software, included with the scanner, automatically produces an .stl file for import into a 3D CAD software package or output to a 3D printer.

To scan, the user picks up the ZScanner handheld unit and "paints" the object with a projected laser crosshair. The surface is recorded by the ZScanner 600's binocular cameras. ZScan software generates a polygon mesh of the surface on the computer screen in real time. And since it is self-orienting and part-referenced, the ZScanner 600 lets the user move the target object during scanning.

[Z Corporation](#) handheld 3D scanners have been documented to be four times faster than tripod-mounted systems, which typically require more than 50 individual scans for something as simple as a bicycle helmet.

### **Pricing, Availability**

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The ZScanner 600 is available today through Z Corporation's worldwide reseller network for \$28,900 USD (U.S. manufacturer's suggested retail price).

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## Events News

### ***COE University Session Registration Opens for Aerospace & Defense Workshop***

September 2009

Reserve your seat for COE University Hands-on Training sessions at the [COE 2009 Industry Workshop – Aerospace & Defense](#), October 26-27 in Ft. Worth, Texas. All sessions are presented by product experts and leading users. Ten [COE University](#) sessions are available at the workshop.

This year's COE University lineup includes these sessions and more:

TR-1: CATIA R19 Manufacturing New Functionality  
*Wes Russell, Idex Solutions*

TR-3: Introduction to V6  
*Michael Melton, Dassault Systèmes*

TR-6: An Introduction to CATIA V5 Tubing Design  
*Brett Ade, TechniGraphics, Inc.*

TR-11: Advanced Reactions in Action  
*LaDeana Dockery, Cessna Aircraft Company*

Download the [session schedule grid](#) and explore all [technical education](#) available at this year's conference.

**[Register](#) for the COE 2009 Industry Workshop – Aerospace & Defense  
by October 9 and save \$100.**

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### ***Delcam CRISPIN's Latest Orthotics Design Software on Show in Québec***

15 September 2009

[Delcam](#) CRISPIN's latest software for the design and manufacture of orthotics will be demonstrated by its Québec area reseller Les Tech at L'Association des Orthésistes et des Prothésistes du Québec meeting in Saint-Hyacinthe on 24th and 25th October.

The main additions to the software are new options for the creation of anatomical orthotics, while it also includes a new method to define heel lift, improved arch definition, greater flexibility when creating bespoke orthotics from standard models, and enhanced graphics and workflow to make the system even easier to use. All of the new functions have been added in response to requests from the various orthotics companies that are supporting the development of the system.

OrthoModel provides a complete solution for the design of high-quality insoles for both the comfort and medical markets. The entire process is driven by a series of easy-to-use menus, which incorporate terminology and imagery familiar to the industry to describe the various features of the orthotic. This

# CIMdata PLM Industry Summary

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makes it easy for medical and footwear professionals to use the software, even those having no previous computer experience. OrthoModel is completely “open” and can take data from any scanning system or use manual measurements from a prescription.

The new anatomical option allows scan data to be taken from part or all of the plantar scan representing the chosen sections of the sole and heel of the foot. This shape can then be reproduced exactly in the orthotic design to give the optimum contact area between the base of the foot and the device, and so spread the weight of the body as widely as required.

Most importantly, a smooth blend can be created between the contact area of the orthotic and the inside of the shoe, ensuring that the foot is matched correctly with the surface of the orthotic while walking. This is an essential requirement for patients with diabetes, as well as giving improved results for comfort orthotics.

The new option for heel lift gives extra versatility to the software. It can be used to compensate for different leg lengths in the patient or to create orthotics for high-heeled shoes.

The arch is one of the most critical areas within the foot. If it does not flatten sufficiently, it absorbs shock poorly, putting extra stress on the foot, especially on the heel. Alternatively, if the arch flattens too much, the foot will be unstable and the bones can become misaligned. Improved definition in this area within OrthoModel will give a more effective and more comfortable orthotic.

Many orthotics are purely accommodative and so do not require such high levels of customisation. In these cases, the designs are often created from a range of base models that can be adapted with add-ons or cut-outs for the individual patient. This approach has been further supported in the new release with an expanded library of components, plus the ability for the user to add their own shapes to this library.

In addition, it has been made possible for the design of these styles to be “batched.” This allows the operator to input prescriptions for a number of patients, together with the associated base model for each case. The software can then generate all the required designs in a continuous series of calculations. This process can even be carried out overnight, to give maximum productivity for the designer.

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## ***Delcam Canada Plans a Triple Launch at CMTS***

17 September 2009

Delcam will demonstrate new releases of FeatureCAM, PowerMILL and PartMaker on booth 22021 at the CMTS show, to be held from 19th to 22nd October at the Direct Energy Centre Toronto Ontario.

Some of the general improvements in FeatureCAM 2010 include 30% faster 3D and machine simulation, dual simulation view, improved pattern tree structure and improved definitions for turning and milling feeds.

For FeatureMILL 2.5D, the number of “Pattern Sorting” options has been increased with new options for unidirectional and bidirectional sorting and new location comparison tolerance. A new Drill/Mill option has been developed for hole drilling. It automatically allows the use of flexible tooling when hole making. This will not only enable faster part programming but will greatly reduce tool usage and costs.

Most important of the developments in FeatureCAM 2010 is support for multi-threading when generating 3D toolpaths. This significantly reduces calculation times especially for complex toolpaths when using a multi-core/processor PC. It allows calculations to be spread across multiple cores saving

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time (an average around 25%) on a dual-core PC.

Other new 3D features include a new spiral finishing option that gives faster machining and improved surface finish with no dwell marks, and automatic rest roughing to minimize air cutting when applying a series of progressively-smaller roughing cutters. In addition, a 3D chamfer can be added to a part, even when this is not shown in the model, for de-burring and similar clean-up operations.

In 5-axis, an alternative positioning per operation is now available so that users can overcome physical machine limits to prevent gouges and collisions. In addition, a new dual-view option allows a part to be viewed from two-different angles simultaneously.

In FeatureTurn, Solid Import Wizard Position has been improved so users can position solids imported after a file has been created to “Use last alignment”. This is ideal for machining castings or when using solids to represent stock. A number of new options are now available for turned features including Integrated Chamfer Strategy for Thread Features, Radius Edge applications both for front and back of Groove Features and Cutoff Features. Now available is easy Start Turning Operations crucial for multiple turret machines where one of the turrets is not able to access parts in one of the spindles. Similarly, FeatureTURN/MILL can combine turning orientations through Simultaneous B-Axis Turning

For Delcam’s PowerMILL CAM system, the new release version 10 incorporates the latest background-processing and multi-threading technologies, using the full power of recent hardware developments to reduce calculation times and increase output. Other enhancements to further increase productivity include reduced memory usage when programming and improved ordering to give faster cycle times on the machine tool.

The main benefit of PowerMILL 10 is that users can prepare data in the foreground while calculating toolpaths in the background. This eliminates the need for the user to wait for each calculation to be completed before he can start preparing the next operation. Similarly, the user can be setting the parameters needed to machine one area of a part, while toolpaths are being calculated in the background for machining a second area with a different strategy.

Productivity is also increased because the computer can continue with a series of calculations during the user’s breaks or even overnight. Calculations can be “queued” (lined up) by the operator and the software will automatically start the next operation as soon as each toolpath is generated. This approach can be used with single core equipment but the benefits are even greater with computers having two or more cores.

As in FeatureCAM, the new multi-threading capabilities allow individual calculations to be divided between the cores in a multi-core machine. This improves calculation times significantly so increasing user productivity, reducing any down-time where machine tools are waiting for NC data and minimising lead times.

The most important development in PartMaker 2010 is the ability to import PowerMILL, strategies for highly sophisticated 3-axis and complex 5-axis machining, including blade and blisk machining, directly into PartMaker. They can then be manipulated and synchronized on PartMaker’s Process Table, and then simulated and post processed directly from the PartMaker working environment. This integrated solution of two market leading technologies assures users they will never be limited in their ability to program and optimize parts in the most efficient and powerful way possible.

In addition, PartMaker Version 2010 includes an improved facility for automating the programming and simulation of thread whirling, a programming technique often used in the programming of “bone screw”

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threads as well as other specialty threads commonly found on surgical implants. Other productivity enhancements include enhanced grooving functionality, powerful and flexible threading capability, improved solids-based programming and additional CAD functionality.

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## ***ESPRIT 2009 by DP Technology at the Canadian Manufacturing Technology Show, Toronto, Ontario, Canada, Oct. 19-22***

11 September 2009

[DP Technology](#) will exhibit its ESPRIT® software Oct. 19-22 at the Canadian Manufacturing Technology Show, or CMTS, in Toronto, Ontario, Canada.

This year, Toronto's Direct Energy Centre will become Canada's “definitive showcase for the latest machine tools, automation technologies, production methods, management strategies” and much more when the major regional trade show comes to town.

Five technology-specific zones at CMTS will connect visitors to exhibitors and cutting-edge technologies aimed at streamlining operations without sacrificing quality. Going beyond standard product demonstrations, CMTS also offers the Automation Rendezvous Two-Day Technical Conference, which explores “industrial process improvement, emerging technologies” and more.

ESPRIT will be on display at booth No. 24031, where knowledgeable and approachable representatives will be on hand to answer questions and perform demonstrations of the latest time-saving upgrades.

Among upgrades available in ESPRIT 2009 is the new turning-spinning tool technology. Designed to distribute heat and wear more effectively than a single-point lathe tool, this innovative technology can increase productivity by up to 500 percent and tool life by up to 2,000 percent. The advantage of the spinning tool is that there is no one single point on the tool that is in contact with the work piece all the time, and this is very good for heat dissipation and tool wear. Cutting conditions are no longer limited by the heat generated in the process, but by power available in the machine.

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## ***ESPRIT 2009, by DP Technology, at the Wisconsin Machine Tool Show, Milwaukee, Wis., Oct. 6-8***

14 September 2009

[DP Technology](#), creator of ESPRIT®, will display the latest version of its software Oct. 6-8 at the Wisconsin Machine Tool Show, in Milwaukee, Wis.

The annual Wisconsin Machine Tool Show, taking place this year at the Wisconsin Exposition Center, State Fair Park, highlights technologies for streamlining production and ensuring quality. Though it covers everything from “tooling inserts and multi-tasking CNC machines, to automation and technologies that cut, mill and drill,” the Wisconsin Machine Tool Show most importantly offers the opportunity to gain a competitive edge.

ESPRIT will be on display at booth No. 1218, where knowledgeable and approachable representatives will be on hand to answer questions and perform demonstrations of the latest time-saving upgrades.

Due to its advanced knowledge-base machining capabilities, ESPRIT enhances automation capabilities and saves time and money through importing solid models, recognizing features on those models and

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automatically choosing options from a database of machining practices for the machining of those specific features. The ESPRIT KnowledgeBase user interfaces have been centralized to make it easier to manage all of the data in the database. The single, consistent user interface allows users to access all the data, such as the processes, materials and cutting tools, from one central location, and context-sensitive commands are available with a right-click of the mouse.

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## ***ESPRIT 2009 to be Exhibited at Mechatronics Technology (MECT) Japan 2009 Oct. 14-17***

15 September 2009

The latest version of ESPRIT® computer-aided-manufacturing (CAM) software created by [DP Technology](#) will be on display Oct. 14-17, when Mechatronics Technology (MECT) Japan 2009 takes place in Nagoya, Japan.

Mechatronics Technology Japan is a vital biennial event that draws domestic and international manufacturers, suppliers and end-users of automation products to Nagoya, where the Nagoya International Exhibition Hall (Port Messe Nagoyas) will be populated by exhibitors dedicated to developing advanced and cost-efficient production equipment.

Visitors to the ESPRIT booth will be greeted by knowledgeable and approachable representatives who will answer questions and perform demonstrations of the latest time-saving upgrades.

ESPRIT 2009 places a heavy emphasis on integrated machining, the use of milling and, or, turning in any combination on any type of machine tool — Swiss-turn, mill-turn, B-axis machines, etc.

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

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## ***First Trace Webinar: Engineering vs. the Office: Fundamental Differences in Document Management***

September 2009

Tue, Oct 6, 2009  
12 PM EDT / 9 AM PDT

[Register Now](#)

Thu, Oct 8, 2009  
4 PM EDT / 1 PM PDT

[Register Now](#)

Engineering Enterprises have much more complex document management needs than other types of organizations. From a document management viewpoint, an Engineering Enterprise has two distinct sides: the Engineering and the “Office” side of the enterprise. Making decisions on document management without understanding these differences can put your organization at risk.

Register for either of these 45-minute Webinars and obtain a basic understanding of the nature of the diverse needs on either side of the enterprise, why they are different, and the risks associated with picking the wrong solution for the job.

Attend this live event and you will learn how neither Engineering Document Management nor ECM solutions can meet the needs of both sides of the enterprise. Find out what it takes to enable

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collaboration between these contrasting solutions.

A question and answer session will follow the event followed by a brief demonstration of how the [Kinnosa](#) document management solution can unify Engineering and the Office in a consistent document environment across the enterprise.

Space is limited, we only have 15 spots remaining so reserve yours today.

[Click here](#) to register for the Oct 6<sup>th</sup> Webinar

[Click here](#) to register for the Oct 8<sup>th</sup> Webinar

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## ***Five Pillars of Engineering Document Management***

September 2009

**Tue, Sept 22, 2009**  
**1 PM EDT / 10 AM PDT**

**Thu, Sept 24, 2009**  
**3 PM EDT / 12 PM PDT**

First Trace has taken the white paper, [The Five Pillars of Engineering Document Management](#), and turned it into a live Webinar. Register for this free 45-minute Webinar and learn about the 5 basic functional areas necessary to implement an effective Engineering Document Management (EDM) solution in your enterprise.

EDM systems span the gamut from simple, single file configurations to complex, hierarchical models with many file types and relationships. Solutions tend to fall into two categories: engineering-specific applications and generic enterprise applications that meet a smaller percentage of engineering requirements.

EDM solutions are usually very configurable, but often difficult to use limiting the ability for an enterprise wide deployment. Enterprise solutions, on the other hand, do NOT address the entire set of engineering requirements for effective document management. To address the reasons for these two distinct lines of development, it is helpful to look at the basic functional areas necessary to implement a successful EDM solution: the 5 Pillars.

A question and answer session will follow the event.

Space is limited, register now to reserve your spot today.

[Click here](#) to register for the Sept 22<sup>nd</sup> Webinar

[Click here](#) to register for the Sept 24<sup>th</sup> Webinar

[!\[\]\(f129944d641891b03b2079f31803f924\_img.jpg\) \*Click here to return to Contents\*](#)

## ***Hankook Delcam Hosts World's Largest CAM User Meeting***

16 September 2009

Delcam's South Korean joint venture, Hankook Delcam, held the world's largest CAM user meeting last week at the Hyundai Hotel in Gyeongju. More than 1,000 users attended the meeting, together with delegates from Delcam's Asian Technical Summit, which was held in the same hotel earlier in the week.

Despite the international financial crisis, which has impacted on Korea's manufacturing sector, Hankook

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Delcam President Chan Oong Jeong was determined to celebrate his country's 20th user meeting in style. He also wanted to reinforce his company's position as Korea's largest CAD/CAM reseller with a suitably large event. Preparations began early in the year, to ensure that representatives from all of Hankook Delcam's many hundreds of customers would be able to attend.

Presentations and demonstrations of the latest versions of Delcam's range of software were presented during the meeting, covering every stage of product development, from the initial design through to inspection of the finished part.

The event also gave Mr. Jeong the opportunity to reinforce the strength of his organisation. The audience included many of Hankook Delcam's 46 staff, of which 23 work in customer support. Similarly, guest speaker, Delcam Managing Director Clive Martell was able to point to his company's world-leading number of CAM developers, global sales channel and firm financial position.

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## ***Lectra Announces its Latest Innovations for the Fashion Industries at the 2009 CISMA Trade Show, September 22—24, in Shanghai, China***

17 September 2009

Lectra is pleased to participate in the 2009 CISMA Trade Show from September 22 to 24, in Shanghai, China. During the event, Lectra will be presenting this fall's launch of the new version of Kaledo®, its professional design software platform, and demonstrating its latest innovations, including Modaris®, DiaminoFashion, the VectorFashion FX and the VectorFashion MX.

### **At the CISMA, Lectra announces Kaledo (V2R1), the latest breakthrough in textile and style development and collection management**

Kaledo provides designers with advanced textile and fashion development and management capacities. Kaledo is a forum that unites business, creative, marketing and management teams in order to collaborate in the development of trends and collections.

Designers are under growing pressure to remain highly creative but with a faster turnover. Designers must have at their disposal tools which allow them to visualize the interplay of colors, surface design, and structure when designing fabrics. They also need to be able to draw on the expertise of others when developing collections in order to produce ranges that are technically feasible and cost-effective. While in normal times this is extremely important for brands, it becomes imperative in economic conditions such as those we are currently experiencing. Companies need to slim down their operations and see a return on every dollar invested, even for creative activities such as design. Benchmark tests show that, compared to previous versions, Kaledo V2R1 performs over 50% faster than previous versions when manipulating repeats, especially with very large files.

### **Lectra will also demonstrate the latest version of Modaris (V6R1)...**

[Lectra](#) will also showcase the latest version of Modaris, its pattern-making solution for the apparel industry, launched in China in May 2009. Modaris has been the industry standard for more than 15 years and is used by the biggest names in fashion worldwide. Modaris (V6R1) offers even greater productivity, quality and innovation for apparel industry professionals.

Modaris' construction tools allow apparel professionals to develop more patterns in less time and to accelerate collection renewal in stores. With this solution, the number of physical prototypes necessary

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for the finalization and validation of models is reduced, and initial production runs can be made sooner and at reduced costs. Its high-performance capacities for all-size grading guarantee the quality and fit of garments and permit companies to optimize the development of new models and collections by drawing on existing elements. By making pattern information exchange simpler and clearer, Modaris enables users to capitalize on resources and best practices in pattern-making and manage product development in a collaborative environment.

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

## **... and of DiaminoFashion (V5R3)**

In 2008, Lectra selected China as the primary region for the launch of its newest version of DiaminoFashion, its flagship offer for marker-making, specially developed for the fashion industry.

DiaminoFashion marks a genuine step forward in interactive and automatic marker-making, enabling fashion companies to make significant fabric savings and achieve even higher productivity. With DiaminoFashion, companies can optimize markers for all types of pieces that go into the manufacturing of a garment. They can also maximize fabric savings in production using one of two complementary methods, to be chosen depending on the type of fabric and complexity of the model.

## **Innovative new products to enhance Lectra's Vector cutting offer will also be showcased**

To meet the challenges its customers now face, Lectra has developed a range of new products to add to its Vector range. At CISMA, Lectra will demonstrate two cutting solutions: the VectorFashion FX, the VectorFashionMX and the new Vector Pilot (V1R2). In addition, it will present new versions of Mosaic, its system for processing patterned fabrics, and Offload, its offloading assistance system.

## **Lectra presents its VectorFashion FX and its VectorFashion MX**

The VectorFashion FX is the most advanced response to apparel companies' need for flexibility. Versatile and reliable, it is the ideal solution for restocking collections and prototype cutting. With the capacity to cut non-stop while the spread is automatically loaded onto the cutting surface, it also ensures maximum productivity. The VectorFashion FX guarantees perfect quality of cut pieces, even those with edges at a tangent. Garments of impeccable quality can then be produced and made available quickly.

The VectorFashion MX represents a technological leap, providing levels of production speed and cutting quality never achieved before. Large manufacturers find in the VectorFashion MX an ideal response to increasing numbers of orders, reduced lead times, and the need to optimize production. Unprecedented cutting room flexibility as well as raw material savings are achieved due to the surprising speed with which the VectorFashion MX is able to cut the most complex pieces—with no buffer zones between cut pieces. Even the largest orders can be handled swiftly, enabling manufacturers to multiply the various orders to be produced while respecting lead times and without consuming raw materials allocated to other orders.

Associated with the Vector cutters, Optiplan®, Lectra's cut-order planning and optimizing solution, integrates several independent planning steps in one unique and integrated process while optimizing the material usage and increasing production.

## **Mosaïc: increase productivity by up to 20%**

Lectra is also able to announce a new version of Mosaïc, its pattern motif recognition and processing solution, available as an option on Vector FX cutting systems, including the new VectorFashion FX, and also the VectorFashion MX.

With Mosaïc, fashion companies can cut pieces accurately to meet pattern motif matching requirements, even when the fabric is distorted. Directly integrated within the cutter pilot, Mosaïc combines powerful new software and a state-of-the-art digital camera, enabling users to increase their productivity by up to 20% when matching patterned fabrics. Used with the Eclipse function, which enables the Vector to continue cutting even as the spread advances, Mosaïc offers productivity levels close to those achieved with plain fabrics.

A number of patents have been taken out for Lectra's Mosaïc offer, and the company has received several industry awards for this technology.

## **Offload system: a new, even smoother cutting process**

Offload is now available as an option on the entire range of Vector cutters. Lectra's offloading assistance system helps apparel professionals to streamline the process of unloading pieces and prevent sorting errors. This system opens up the possibility of producing more complex cut orders, which can be a way of making very significant material savings. With Offload, companies strengthen their capacity for just-in-time production of a larger number of models and their variants, helping them to respond to the changing buying habits of their customers.

## **New Vector Pilot (V1R2)**

Launched in February 2007, the Vector range of cutting systems has proved an absolute triumph. The Vector Pilot software, which brings a new level of intelligence to the automated cutting system, has played an important role in this success.

The new version of Vector Pilot makes the Vector cutting equipment an even more powerful system. Through significant improvements in cutting strategy, the software ensures a high-quality result, even when performing difficult maneuvers and optimizes the blade path for greater efficiency. What's more, the Vector Pilot is easier to use through the original concept of "simplicity": a sophisticated piece of software that aims to make a complex application as simple to use as possible.

## **Smart Services: onboard intelligence**

Lectra's new cutting solutions come equipped with Smart Services—onboard intelligence which monitors the machines in real time, updates pilot software, and runs the machines' preventive maintenance program, as well as performing an array of other high value-added functions. A permanent communication link between the equipment and experts in Lectra's five International Call Centers—including one located in Shanghai—enables the company's teams to resolve most potential problems remotely and without delay.

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## **Oracle® OpenWorld 2009 Highlights Partner Innovation and Specialization**

14 September 2009

Further enabling Oracle's valued partner community with the information and resources they need to

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build a better business with Oracle, the company announced a wide range of collaborative, partner specific activities at Oracle® [OpenWorld 2009](#) in San Francisco.

Kicking-off with the exclusive [Oracle PartnerNetwork Forum](#) to be held on Sunday, October 11, 2009, Oracle OpenWorld will feature a series of Partner Pavilions and partner-only sessions that empower partners with opportunities to share knowledge, showcase specialized solutions, increase customer and prospect visibility, and drive business growth.

For the sixth year, Oracle PartnerNetwork (OPN) Forum will host the annual North America Titan Awards Ceremony, recognizing the innovative solutions and business achievements of North America partners within OPN.

Oracle will also recognize award-winning partners from Europe, Middle East and Africa, Asia Pacific and Japan, and Latin America regions for partner solution innovation and implementations with the second annual Global Partner Awards.

Partners who want to extend the conversation and collaboration before, during and after Oracle OpenWorld can connect with the Oracle PartnerNetwork on [OPN on Oracle Mix](#), [OPN on Twitter](#), [OPN on Facebook](#), [OPN on LinkedIn](#) and [OPN on YouTube](#).

## **Oracle PartnerNetwork Forum**

The Oracle PartnerNetwork Forum is a venue for Oracle partners to learn about innovations in OPN straight from Oracle executives, as well as connect with regional executives and peers to discuss issues and opportunities unique to specific regions.

The event, which will be held at Moscone South, is scheduled to include vision and strategy presentations from Oracle Presidents, Charles Phillips and Safra Catz, Senior Vice President, Worldwide Alliances and Channels, Judson Althoff and more.

The Forum will also feature a special presentation from Andrew McAfee, author of “Enterprise 2.0: New Collaborative Tools for Your Organization’s Toughest Challenges.”

Throughout the one-day event, partners will have the opportunity to gain valuable insights, contacts and resources in a series of specialized breakout sessions developed to help partners better build, market, and sell Oracle-based solutions.

Video highlights from partners showing their innovations submitted through the Innovation Showcase will also be highlighted during the OPN Forum. For more information on how to submit, please visit our [Partner Innovation](#) page.

## **Oracle PartnerNetwork Global Awards and North America Titan Awards**

The North America Alliances and Channels Titan Awards recognize the innovative solutions and business achievements of partners within the Oracle PartnerNetwork. The ceremony will be held at Moscone South on Sunday, October 11 at 7:30 p.m. PT.

The Oracle PartnerNetwork Global Partner Awards will be handed out at the OpenWorld Welcome Reception, which will immediately follow the Titan Awards ceremony in the Howard Street Tent. The Welcome Reception also provides an opportunity to network with Oracle representatives, customers and partners from around the world.

## **Partner Pavilions at Oracle OpenWorld**

Throughout the week of Oracle OpenWorld San Francisco, Oracle will feature [Partner Pavilions](#) to

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enable OPN members to showcase their solutions and increase visibility with customers, prospects and other Oracle partners. This year's Pavilions include:

**Oracle Accelerate for Midsize Companies Pavilion:** Oracle and its Oracle Accelerate Solution Partners will help customers and prospects discover comprehensive, easy-to-own, industry-focused solutions at an affordable cost. This pavilion will be sponsored by HP.

**CRM On Demand Inner Circle Pavilion:** This pavilion will highlight firsthand how a select group of Oracle partners are helping organizations build and extend CRM solutions to meet their unique requirements.

**Hyperion Pavilion:** Meet Oracle partners who have solutions and services that are aligned with Oracle Hyperion products, the leading performance management applications that are a key element of Oracle's enterprise performance management system.

**Industry Pavilions:** The Industry Pavilions showcase Oracle's products and partners providing comprehensive solutions to industry-specific challenges in the Communications and Media, Retail, Utilities, Financial Services, Health Sciences, and Insurance industries.

**Oracle Develop Pavilion:** The Oracle Develop Pavilion is an integral part of Oracle Develop—the premier developer program at Oracle OpenWorld. Oracle's partners participate in the Oracle Develop Pavilion to showcase their technical expertise and practical solutions to thousands of skilled technologists attending Oracle Develop.

**Primavera Pavilion:** Oracle's Primavera partner experts will showcase their solutions for project and portfolio management, in conjunction with a special two-day Oracle Primavera Program event that brings together the Oracle Primavera prospect, customer, and partner community for educational sessions and networking.

**SaaS and Cloud Pavilion** Sponsored by Wipro: With enterprise customers aggressively evaluating options to use software as a service (SaaS) and cloud offerings to run their business, partners will showcase solutions that meet customers' specific business requirements and help increase their business effectiveness.

**Green Marketplace:** Oracle partners will exhibit solutions, create interactive experiences showcasing all things green, and show you what they are doing to incorporate sustainability into their business and IT plans.

## **Oracle PartnerNetwork Lounge**

The Oracle PartnerNetwork Lounge is open throughout the week and is located in Moscone South, Room 100. The lounge, available to partners, will include meeting spaces, demo kiosks, a special area for blogging in the OPN Blogging Room, and OPN Information Stations, as well as opportunities to network with Oracle and other partners.

## **Partner-only Sessions**

Oracle OpenWorld will include sessions designed exclusively for partners and companies interested in partnering with Oracle, including:

### **Monday, October 12:**

The Next Innovation of Oracle PartnerNetwork and Specialization

### **Wednesday, October 14:**

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New Partner Tools and How They Can Help You Close Business

How to Develop Individual Solution Specialties

ISVs, Learn How to Partner with Oracle in Your Transition to SaaS

Explore the Oracle PartnerNetwork Portal New Navigation and Resources

Take Advantage of Oracle's Acquisition Strategy to Grow Your Business

OPN Marketing Tools to Support Your Pipeline Generation

Supporting Resources

[Oracle PartnerNetwork](#)

[Oracle OpenWorld 2009](#)

[Oracle PartnerNetwork at Oracle OpenWorld](#)

[Oracle OpenWorld Pavillions](#)

[Join the OPN Group on Oracle Mix](#)

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[Judson Althoff Blog](#)

## **About the Oracle PartnerNetwork**

Oracle PartnerNetwork is a global business network of more than 20,000 companies who deliver software solutions based on Oracle software. Through access to Oracle's products, education, technical services, marketing and sales support, the Oracle PartnerNetwork program provides partners with the resources they need to be successful in today's global economy. Partners who are able to demonstrate superior product knowledge, technical expertise and a commitment to doing business with Oracle qualify for the Certified Partner levels.

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## ***Si2 Announces the 14th Si2/OpenAccess+ Conference***

16 September 2009

The Silicon Integration Initiative (Si2) announced that its 14th Si2/OpenAccess+ Conference will be held on October 14, 2009, at the Network Meeting Center at Techmart Santa Clara, CA. The Conference will feature speakers and demonstrations from several of the industry's leading semiconductor and electronic-design automation (EDA) companies. Barry Dennington, NXP Senior Vice President and Chairman of the Si2 Board of Directors will provide the keynote address.

The 14th Si2/OpenAccess+ conference will cover the increasingly inter-related areas of OpenAccess, Design for Manufacturability (DFM), and low-power design. Updates on the industry adoption of OpenAccess will be presented along with plans for the future. Vendors in the OpenAccess and low-power design arenas will discuss their advanced capabilities and their experiences with low power formats. Exciting new developments in DFM will be presented for the first time in an open audience.

As in prior conferences, there will be an evening session that will present demos of advances in the use

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of the technologies offered by Si2. This session will also serve as a valuable opportunity for networking, and refreshments will be served.

In recognition of the difficult economic times facing our industry, this 14th Si2/OpenAccess+ Conference will be **free** of charge to all attendees. Please use this opportunity to spend a day learning of the latest advancements in OpenAccess, Low Power, and DFM. To register for the conference, visit: [http://www.si2.org/events\\_dir/register/oac10\\_2009.php](http://www.si2.org/events_dir/register/oac10_2009.php).

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## **Web Seminar: CFD Analysis for MCAD Designers - Better Products, Faster**

September 2009

### **Web Seminar**

[View All Events](#)

**Sep 22, 2009**

**2:00 PM - 2:45 PM US/Eastern** [Register](#)

[Convert to Local Time](#)

### **Overview**

For years, CFD analysis has been reserved for specialists. With today's drive to get higher performing products to market faster, this restriction is no longer acceptable. But new software exists that puts CFD into the designers' familiar CAD environment and automates the CFD modeling process. The result: Designers get to quickly and easily simulate their designs, perform design variation "what-ifs", and optimize their product designs, all without costly physical prototypes and re-spins, or the CFD-specialist level of expertise required by classical CFD software.

In this first of a series web seminar, renown PLM industry consulting and research company CIMdata, will discuss recent industry trends and business drivers for mechanical product companies. Mentor Graphics will then present a view of their next generation CFD for designers' product, FloEFD, followed by a short demo and an opportunity for Q&A from the audience.

### **5 part series for Engineering Fluid Dynamics**

- PART 1: CFD Analysis for MCAD Designers - Better Products, Faster
- PART 2: [Measuring and Optimizing Pressure Drop](#)
- PART 3: [Simulating and Optimizing Heat Transfer](#)
- PART 4: [Simulating and Optimizing Mixing Processes](#)
- PART 5: [Simulating and Optimizing Flow Fields](#)
- PART 6: [Simulating and Optimizing Reaction Forces](#)

### **What You Will Learn**

- How adoption of flow and thermal analysis tools in the early stages of design can help create better,

more reliable products, faster

- How CAD-embedded CFD analysis reduces design times
- How changes in fluid flow can dramatically alter a product's efficiency
- How an engineer can quickly explore 'what-if' scenarios to optimize their design
- Why virtual prototyping can outperform physical prototyping
- How fast, accurate, built-in functionality can reduce the need for CFD analysis expertise

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## ***Webinar Demonstrates Femap Tips for Increasing Productivity***

14 September 2009

NEi Software is hosting a webinar titled "Femap Tips for Increasing Productivity" on **September 23 at 11:00 AM PDT**. The webinar is intended to provide engineers and designers who are currently using Femap tips and tricks to help increase productivity with the software. For people who are not currently using Femap, this webinar will be an introduction to the Femap interface and its powerful capabilities.

In addition to tips and tricks, there will be an introduction to scripting in Femap. Through the use of Program Files or API Programming, Femap can automate repeatable tasks.

New features and functionality in Femap 10.1 will also be discussed.

To reserve your seat go to [www.NEiSoftware.com/webinar/FemapTips](http://www.NEiSoftware.com/webinar/FemapTips).

For more information visit [www.NEiSoftware.com](http://www.NEiSoftware.com) or call 1-877-NASTRAN.

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## ***Witness SolidWorks 2010 Software at EngATech's Tulsa Launch Event***

16 September 2009

EngATech Inc. will unveil the top product enhancements to the SolidWorks 2010 product line, at their SolidWorks launch event scheduled for October 7, 2009 from 12:00pm-3:00pm at OSU-Tulsa. To prepare for this event, EngATech will choose 20 of the 250 plus upgrades to the SolidWorks 2010 software that will bring the most value to companies in Oklahoma.

"We try to focus our presentation on the enhancements that will save our clients the most amount of time and money," said CEO Clay Slaton.

The agenda for EngATech's SolidWorks 2010 Launch Event is as follows: a technical presentation over SolidWorks 2010, door prizes, a complimentary lunch, and networking opportunities.

The main benefit of attending EngATech's Launch event is learning the new enhancements that help design teams become more productive. "The best part of our launch event is all the ohhs and ahhs from the crowd. SolidWorks really listens to the users and chooses the yearly enhancements based off of their needs and wants," said Slaton.

## **What's new in SolidWorks 2010**

SolidWorks Premium CAD software improves designers' and engineers' productivity with a wide range

# CIMdata PLM Industry Summary

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of new capabilities including: patent-pending heads-up mouse gesturing, reference plane creation methods, and direct editing tools just to name a few.

SolidWorks Simulation Premium, SolidWorks Enterprise PDM, and 3DVIA, come loaded with new timesaving enhancements while SolidWorks Sustainability software makes its debut. SolidWorks Sustainability software helps users determine the carbon footprint, energy consumption, and air/water impacts in a product design's raw material sourcing, manufacture, use, and disposal.

"SolidWorks 2010 is designed to provide every design team with an improved work experience that can bring them to new levels of success regardless of their industry," said Austin O'Malley, CTO of DS SolidWorks Corp.

## Registration

Registration is required for EngATech's launch event as seating is limited. This is a free event open to the C.A.D. community. Registration can be completed online at <http://www.engatech.com/special-events.htm> or by calling 918.599.7500.

## About EngATech Inc.

EngATech was founded as a full service design and manufacturing consulting firm and has since grown to become the Select "SolidWorks 3D CAD" and "Objet Desktop 3D Printing Systems" Value Added Providers in the Mid South Region.

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## Financial News

### ***Avatech Solutions to Report Fiscal 2009 Fourth Quarter and Year-end Results on Monday, September 28, 2009***

16 September 2009

Avatech Solutions, Inc. announced it will release its financial results for the three months and year ended June 30, 2009, before the market opens on Monday, September 28, 2009. The Company has scheduled a conference call for 11:00 a.m. Eastern Time on the same day.

The dial-in numbers for the conference call are (888) 713-4215 (domestic) or (617) 213-4867 (international), and enter the passcode (59540239). A replay of the call will also be available through October 5, 2009, and can be accessed by dialing (888) 286-8010 (domestic) or (617) 801-6888, and dialing the passcode (73265135).

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

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### ***ESI Group Sales for the First Half of 2009/10: €31.2 million (+6.4%) - Fine resistance sustained by the Licences installed base and by Services***

15 September 2009

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ESI Group announced its consolidated sales for its first half to 31<sup>st</sup> July 2009.

## Change in quarterly and half-yearly sales:

| In €<br>millions                               | Q2<br>2009  | Q2<br>2008  | Δ %<br>(euros) | Δ %<br>(volume) | H1<br>2009  | H1<br>2008  | Δ %<br>(euros) | Δ %<br>(volume) |
|--|-------------|-------------|----------------|-----------------|-------------|-------------|----------------|-----------------|
| <i>Licences</i>                                | 9.6         | 10.5        | -8.5%          | -16.7%          | 20.7        | 21.3        | -2.7%          | -11.4%          |
| <i>Services<br/>and<br/>other<br/>revenues</i> | 5.1         | 4.1         | +26.7%         | +23.6%          | 10.5        | 8.0         | +30.9%         | +27.4%          |
| <b>Total</b>                                   | <b>14.8</b> | <b>14.6</b> | <b>+1.3%</b>   | <b>-5.5%</b>    | <b>31.2</b> | <b>29.3</b> | <b>+6.4%</b>   | <b>-0.8%</b>    |

*NB: the Group's FY runs to 31st January*

Reminder: Consolidation incorporates activities associated with the intellectual property of Vdot software (acquired on 20<sup>th</sup> October 2008) and with Mindware (acquired on 16<sup>th</sup> December 2008). The inherent seasonal effect of ESI Group's Licencing activity means that a substantial proportion of annual revenue is recorded over the second half of the year.

Second-quarter sales totalled 14.8 million euros, exceptionally reduced by the renegotiation of a perpetual licence contract into an annual licence for 0.4 million euros.

First-half sales totalled 31.2 million euros, up +6.4%. At constant exchange rates, sales were almost stable at -0.8%.

The integration of Mindware contributed 2.8 million euros to Group sales over the period. The product mix has moved significantly towards Services, which represented 34% of total first-half activity compared to 27% a year earlier.

Licence sales for the first half came to 20.7 million euros, down -2.7% on the first half of 2008. Nevertheless, the rate of repeat business for Licences remained high over the half, at 80% versus 81% for the first half of 2008, with the installed base up +6.4%. In particular, ESI Group has observed a continuity of orders from its main clients, including the automotive sector. Nevertheless, in this difficult economic situation, some clients such as those involved in steel production (ex.: foundries, stamping) have been forced to slow down or even to temporarily stop their activity and therefore postpone the renewal of their licences.

Sales from Services totalled 10.5 million euros, up +30.9% in actual terms and +27.4% by volume. Excluding the integration of Mindware, sales totalled 7.6 million euros, down -4.4% on the first half of 2008.

This level of activity should be seen in perspective, given the rapid growth of Services over the first half of 2008/09. It is also explained, over the second quarter, by the extension of decision and sales cycles,

# CIMdata PLM Industry Summary

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notably for some innovative projects.

On a geographic level, Europe accounted for 37% of half-year sales, versus 46% for the first half of 2008, whilst Asia remained stable at 40%. The Americas benefited from the integration of Mindware and increased its contribution to 23%, versus 14% for the first half of 2008.

Alain de Rouvray, ESI Group's Chairman and CEO, concludes: "First-half figures show that our activity is resisting well, despite the effect that the negative economic situation is having on some of our clients. Control of our cost structure should limit the impact on our profitability. The maintaining of the high level of our Licences repeat business reflects the persistent confidence that our clients, notably in the automotive industry, have in our innovative solutions. Lastly, the Mindware integration is proceeding in accordance with our execution plan."

For further information, visit [www.esi-group.com](http://www.esi-group.com).

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## ***Oracle Reports Q1 GAAP EPS of 22 Cents up 8%, Non-GAAP EPS of 30 Cents up 3%***

16 September 2009

Oracle Corporation announced fiscal 2010 Q1 GAAP earnings per share were \$0.22 up 8% compared to last year. First quarter GAAP total revenues were down 5% to \$5.1 billion, while quarterly GAAP net income was up 4% to \$1.1 billion. GAAP new software license revenues were down 17% to \$1.0 billion. GAAP software license updates and product support revenues were up 6% to \$3.1 billion. GAAP operating income was up 14% to \$1.7 billion and GAAP operating margin was up 590 basis points to 34%. GAAP operating cash flow on a trailing twelve-month basis was \$8.8 billion, up 10%.

First quarter non-GAAP earnings per share were up 3% to \$0.30. Non-GAAP total revenues were down 7% to \$5.1 billion, while non-GAAP net income was flat at \$1.5 billion, compared to the same quarter last year. Non-GAAP operating income was up 7% to \$2.3 billion and non-GAAP operating margin was up 570 basis points to 46%.

Oracle's results were impacted by the reduced value of foreign currencies when compared to US dollars, reducing Q1 GAAP earnings by \$0.02 per share. Without this impact, Oracle's Q1 GAAP and non-GAAP earnings per share would have been \$0.24 and \$0.32, respectively. GAAP and non-GAAP new software license revenues would have been down 14%, and our software license updates and product support revenues would have been up 11% on a GAAP basis and up 8% on a non-GAAP basis. GAAP and non-GAAP operating income would have been up 21% and 11%, respectively.

In addition, Oracle's Board of Directors declared a cash dividend of \$0.05 per share of outstanding common stock to be paid to stockholders of record as of the close of business on October 14, 2009, with a payment date of November 4, 2009. Future declarations of quarterly dividends and the establishment of future record and payment dates are subject to the final determination of Oracle's Board of Directors.

"Yesterday, Sun and Oracle announced Exadata Version 2, which is twice as fast as Exadata Version 1 for data warehousing and the first and only database machine that runs online transaction processing – OLTP – applications," said Oracle CEO Larry Ellison. "This new combination of Sun hardware and Oracle software is now the world's fastest computer system for both OLTP and data warehousing."

"By substantially improving operating margins we were able to increase Q1 earnings per share even though revenues decreased slightly," said Safra Catz, Oracle's President. "We grew non-GAAP

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operating margins by 570 basis points to 46 percent in our seasonally smallest quarter. Our operating model continues to drive earnings for our stockholders.”

“Software license updates and product support revenues grew 11%, to \$3.1 billion, for the quarter when adjusted for the change in the US dollar since last year,” said Oracle Executive Vice President and CFO, Jeff Epstein. “This growth, coupled with our disciplined expense management, was key to our ability to generate a record \$8.5 billion in free cash flow over the last twelve months.”

“We grew faster than SAP in every region around the world, including Europe, where our applications business grew 3 percent in constant currency versus negative 39 percent for SAP’s most recent quarter,” said Oracle President Charles Phillips. “Our applications team also executed especially well in North America, where our applications business grew 8 percent in constant currency versus negative 50 percent for SAP.”

## Q1 Earnings Conference Call and Webcast

Oracle will hold a conference call and web broadcast today to discuss these results at 2:00 p.m. (PDT) / 5:00 p.m. (EDT).

Full release and financials: [http://www.oracle.com/corporate/investor\\_relations/earnings/1q10-pressrelease-sept.pdf](http://www.oracle.com/corporate/investor_relations/earnings/1q10-pressrelease-sept.pdf)

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## Implementation Investments

### *AltaSim Technologies Joins the Global Fight Against Malaria*

9 September 2009

AltaSim Technologies joined with inventor Tom Kruer of Gizmotech, to develop a mosquito trap for use in developing countries. The trap will help prevent the spread of malaria without the environmental impact of insecticides. Estimates show that malaria causes over 1 million people die per year with a child dying every 30 seconds. Beyond the human toll, the economies of affected countries may lose billions of US dollars per year causing a downward spiral of poverty.

The small cone-shaped trap designed by Tom Kruer uses passive solar heat in conjunction with an attractant to provide effective and affordable control of mosquitoes. During the day the phase change wax absorbs solar energy thus eliminating the need for costly photovoltaic cells or batteries. At night heat is released from the wax at the approximate temperature of the human body causing release of an attractant derived from human sweat. The innovative trap mimics the scent, moisture, and temperature profile of a sleeping body; mosquitoes are attracted into the cone where they are trapped for easy disposal.

[AltaSim Technologies](#) used COMSOL Multiphysics® to analyze fluid flow and thermal distribution in the trap and subsequently optimize the temperature and flow velocities to ensure effective operation. The analytical approach provided rapid verification of the concept and allowed optimization of the design without expensive and time consuming prototype development. The device will be manufactured and distributed by Sun Night Solar of Houston, TX. Mark Bent, President and CEO of Sun Night Solar, said they “aim to test the product in up to 10 countries in the next months”.

Kyle C. Koppenhoefer, PhD., a Principal of AltaSim Technologies, explained the company’s decision to

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become involved with the project: “Embedded in our mission is a commitment to make innovative technology accessible for the benefit of society. Our multiphysics computational analysis capabilities helped get this mosquito trap into use quickly to start saving lives.”

AltaSim Technologies helps customers develop innovative and cost effective solutions to improve their new products and processes and obtain the benefits of tomorrow’s technology in today’s market.

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## ***Article in Hydrocarbon Engineering Highlights Bilfinger Berger’s Botany Port Successes in Australia Using COADE CADWorx Plant Design Software***

16 September 2009

COADE announced that the company’s CADWorx Plant Design Suite is featured in a July 2009 article in Hydrocarbon Engineering magazine that discusses how Bilfinger Berger Services (BBS) used the software to improve project collaboration, eliminate errors and save time, reducing project costs by 60% on the US\$50 million Vopak fuel terminal project. The project is part of the third phase of Botany port expansion, described as one of the largest port projects undertaken in Australia in the last 30 years. BBS was involved in the design of five large storage tanks.

The article describes how BBS benefitted from the many advanced capabilities and tools in the CADWorx Plant Design Suite, including the automatic production of isometric drawings and the easy export of the design from CADWorx to CAESAR II for stress analysis. They also benefitted from the program’s intelligent and easy 3D steel modeling capabilities and the easy collaboration and review among stakeholders of 3D plant and ancillary models. Details on Hydrocarbon Engineering magazine are at <http://www.hydrocarbonengineering.com/>.

A link to a copy of the article can be found at <http://coade.typepad.com/coadeinsider/2009/09/hydrocarbon-engineering-magazine-bilfinger-berger-services.html>.

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## ***Boeing Subsidiary Uses SolidWorks to Expand 2D-to-3D Conversion Business***

14 September 2009

[Continental DataGraphics](#) (CDG), a [Boeing](#) subsidiary, has purchased SolidWorks® 3D CAD software to meet the increasing demand for 2D-to-3D file conversion. The SolidWorks tools will support CDG’s internal requirements to support Boeing projects, and enable the company to offer 2D-to-3D conversion services for other commercial customers as well.

CDG authors and publishes illustrated parts catalogs and maintenance manuals to support all Boeing commercial aircraft worldwide. As part of that work, the CDG graphics team uses SolidWorks software to convert 2D pictures of parts into 3D models for use in publishing and engineering.

“We recognized that a lot of other companies, like those in trucking, energy, and other industries using complex equipment, have similar needs,” said Josh Migdal, CDG production manager. “Because SolidWorks accepts and outputs a wide range of file formats, we have been able to expand our engineering services capabilities to convert 2D pictures into 3D models for a broader range of customers

# CIMdata PLM Industry Summary

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across multiple industries.”

SolidWorks also enables CDG to repurpose 3D data to 2D isometric projections for Component Maintenance Manuals (CMMs) and Illustrated Parts Catalog (IPC) technical illustrations.

“Our skilled professionals have also found applications for this product that can support marketing, multimedia, and training development requirements,” said Migdal. “This software will be an essential tool for our hundreds of talented engineers, and will create new business opportunities for our growing company.”

SolidWorks software includes bi-directional translators that support DWG, DXF™, Pro/ENGINEER®, IPT (Autodesk Inventor®), Mechanical Desktop®, Unigraphics®, PAR (Solid Edge®), CADKEY®, IGES, STEP, Parasolid, SAT (ACIS), VDA-FS, VRML, STL, TIFF, JPG, Adobe® Illustrator®, Rhinoceros®, IDF, and HSF (Hoops) formats. No other CAD software offers this set of data translation capabilities.

“We worked very closely with our SolidWorks VAR throughout the evaluation process,” said Migdal. “We found that SolidWorks was extremely easy to use and it met all of our requirements for our conversion projects.”

CDG relies on authorized SolidWorks reseller [GoEngineer](#) for ongoing software training, implementation, and support.



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## ***Cosmic Circuits Selects Berkeley Design Automation AFS Nano™***

15 September 2009

Berkeley Design Automation Inc. announced that Cosmic Circuits, a leading provider of differentiated high-performance analog and mixed-signal intellectual property (IP) for nanometer silicon processes, has selected the company's Analog FastSPICE Nano SPICE simulator (AFS Nano) for IP core verification.

"Cosmic Circuits' designs go through rigorous checks at the simulation level before being committed to silicon," said Ganapathy Subramaniam, CEO of Cosmic Circuits, "AFS Nano reduces simulation time by a factor of 5-10x compared to traditional SPICE with identical results. With this performance we can thoroughly characterize PLLs, ADC blocks, and DACs, for process variability resulting in faster delivery of high quality IP cores to our customers."

Analog FastSPICE is a unified circuit verification platform for analog, mixed-signal, and RF design. Always delivering true SPICE accurate results, it provides 5x-20x higher performance than traditional SPICE, >10 million-element capacity, and the industry's only comprehensive noise analysis. The AFS Platform is a single executable that uses advanced algorithms and numerical analysis to rapidly solve the full-circuit matrix and original device equations without any shortcuts. AFS Platform tools include: AFS Nano SPICE simulator, Analog FastSPICE circuit simulator, Noise Analysis Option™ device noise analyzer, and RF FastSPICE™ multi-tone periodic analyzer.

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"We are excited that [Cosmic Circuits](#) has selected AFS Nano for their IP verification and characterization," said Ravi Subramanian, president and CEO of [Berkeley Design Automation](#). "Cosmic Circuits' silicon IP for nanometer process nodes requires expert analog designers, a strong focus on analog architectures to combat variability, and the right tools for the job. Cosmic Circuits selection of AFS Nano further validates the strong competitive advantage the Analog FastSPICE Platform provides to leading-edge analog/mixed-signal IP designers."

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## ***Delcam's FeatureCAM Helps Turn a Hobby into a Business***

18 September 2009

Investing in [Delcam](#)'s FeatureCAM feature-based CAM software has helped Joey Klitzke turn his hobby of tractor-pulling into a successful business. Mr. Klitzke formed Jopen Machinery in Baraboo, Wisconsin, after struggling to find anyone else who could make the parts that he needed to increase the power in his tractors.

"I've been interested in all things mechanical for my whole life," remembered Mr. Klitzke. "I started out in the printing business, where I got used to operating complex machinery and to working to thousandths of an inch at high speed. During my free time, I started a landscaping business. That expanded rapidly until it became my full-time job. After twelve years, I sold that business and reinvested the money into Jopen Machinery. I started out with a Bridgeport machine, making parts for the tractors I use for tractor-pulling competitions. I had some ideas about ways in which I could increase the horsepower of the engines, so I needed a way to make customised parts."

A second strand to the business came from Mr. Klitzke's related interest in restoring older tractors. "Of course, you can't buy parts for these older models so I had to make them," he explained. "One of my tractors was featured in a local charity calendar. People started calling me to ask where I bought my parts. When I said that I made them myself, they wanted me to help them with their tractors so I started a restoration business."

The restoration work soon expanded beyond old tractors. "Shortly after the calendar appeared, a friend took me to visit a local railway museum where he did some volunteer work," said Mr. Klitzke. "I was asked if I could make a replacement part for one of the engines. I finished the job in about three hours the following morning and shipped it to the museum that afternoon. The next day, a truck full of similar parts was in the yard for me to replace."

With the demands for his machining skills growing rapidly, Mr. Klitzke knew that he needed to expand his capabilities. As his reputation increased, he was also being asked to make more complex parts, which meant he would need to move into five-axis machining. Together, these pressures necessitated a change from manual programming to using CAM software.

Mr. Klitzke admitted that FeatureCAM was not his first choice of software. "I did try another system before I moved to FeatureCAM," he remembered, "but the programming was very complicated and I couldn't get the results that I expected. The ease of use was the first thing that attracted me to FeatureCAM. I could work out how to program a small part in a few minutes."

After this promising start, Mr. Klitzke was soon able to access the full power of the software. "As I became more familiar with FeatureCAM, I learnt how to customise the toolpaths to get tailor-made results," he said, "for example, how to modify the step-over to get a better finish on a part."

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Mr. Klitzke emphasised the programming speed that is possible with the software as the main advantage over his traditional manual approach. "Simpler jobs can be programmed in as little as five minutes," he claimed. "One complex part took me twenty minutes to prepare with FeatureCAM but it would have taken about eight hours on a manual control. One-off parts are now practical at a reasonable cost because the programming is so fast."

The ability to test out programs on the computer is another important benefit. "FeatureCAM is very visual so you can see immediately if things look right or wrong," explained Mr. Klitzke. "The simulations are very accurate – what FeatureCAM shows you on the screen is what you see on the machine. Any mistakes you have made in the programming can be resolved before you get anywhere near the machine."

The other benefit of changing software has been the excellent support from the local Delcam reseller, Programming Plus. "My previous supplier claimed to have thirteen support staff but you could never get through to any of them," reported Mr. Klitzke. "Perhaps the company didn't really have that many people or perhaps it showed how many calls they were getting from customers having problems with the software."

"Programming Plus is only two hours away so even the few problems that can't be sorted out over the phone can be solved very quickly," he added. "Plus, the people there have plenty of toolroom experience and they really understand machining."

Mr. Klitzke believes that his change of software has guaranteed the future of his business. "There is no future in high-volume, low-tolerance work," he claimed. "More complex, short-run parts are where the money is and you can do that work profitably with FeatureCAM."

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### ***EADS Innovation Works, Hamburg, Uses Altair's CAE Suite HyperWorks for Optimization and Stochastic Applications***

14 September 2009

[Altair Engineering, Inc.](#) announced that [EADS](#) Innovation Works -- the global network of Technical Capability Centers operating the corporate Research & Technology laboratories -- has recently benchmarked the HyperWorks CAE platform for functional and physical simulation tasks and has again recommended its use to the engineers of the EADS Group and its divisions Airbus, Eurocopter, EADS Astrium and EADS Defence & Security. The Simulation and Graphical Technologies Team of EADS Innovation Works has been using HyperWorks successfully for more than seven years. The department is constantly looking for the best tools to guarantee the technical innovation potential of EADS with a focus on the long-term horizon. The strategic decision for the HyperWorks suite will help EADS engineers in many different areas to develop their products better and faster. Dealing with highly complex systems the special research emphasis is placed on uncertainty management and methods to enhance the robustness, reliability and safety of future product developments.

"We at EADS Innovation Works consistently seek out tools that help our engineers to design and develop even better products," said Dietmar Vogt, at EADS Innovation Works Hamburg, Germany. "HyperWorks offers our engineers the full potential of CAE in all of its bandwidth at a very competitive price; and, with the third-party products offered within the HyperWorks Enabled Community, the multidisciplinary portfolio offered by Altair is further increased."

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HyperWorks products are used for many CAE activities including stochastic studies, Design of Experiments, and optimization, for versatile target-oriented applications like optical radiation, acoustic, electric, structural and fluid mechanical simulations. Major advantages are the reliable interfaces to proprietary and binary files of simulation models and results. Its open architecture and the use of the TCL/TK-based script language make them easy to be customized and therefore suitable also for applications for which no specialized out-of-the-box tool is available. The software runs on all common platforms and can be used with diverse available CAE solvers.

"Altair offers very good solutions for the simulation tasks our engineers face," he adds. "Additionally, we appreciate the good and responsive support we get from Altair, together with the direct interaction with the Altair development team, which integrates our input usually very quickly into future software development and gives us the possibility to influence the future development of the software according to our needs."

"To work with EADS Innovation Works is a great pleasure for us," said Dr. Michael Hoffmann, Altair vice president, EMEA. "The relationship we enjoy with EADS Innovation Works is mutually beneficial and allows us to tailor our products better to meet their needs as well as those of the global aerospace community. Especially in the area of composites, EADS' experience and input helps us to continuously improve the flexibility and usability of our products. The open architecture of our software suite and its many automated use cases help engineers from all industries to focus on what is most important: deliver better products in a shorter time at lower development costs."

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## ***Entergy Nuclear Expects to Save Up to \$1 Million per Day with Dassault Systemes PLM***

16 September 2009

Dassault Systèmes (DS) announced that Entergy Corp., the second largest nuclear power operator in the U.S. managing 10 commercial sites with a total of 12 reactors, is leveraging Dassault Systèmes solutions for 3D digital modeling, planning, and simulation of maintenance tasks.

At Entergy's Waterford 3 plant near New Orleans, Louisiana, the company simulated multiple maintenance projects using solutions from Dassault Systèmes. Projects included analyzing the impact of a potential fire on equipment located in key areas of the plant, replacing the in-core instrumentation sensor system that monitors reactor fuel conditions, and removing and replacing a reactor coolant pump motor that weighs 57 tons.

Entergy implemented a combination of Dassault Systèmes technologies to prepare for these upcoming maintenance tasks, including CATIA for modeling the plant and DELMIA to simulate the actual project work. To ensure the team had accurate dimensions of the plant, Entergy used scanning and digital photogrammetry from Dassault Systèmes' partner Areva NP. BCP Engineers & Consultants served as the prime contractor for the projects. Entergy plans to use ENOVIA from Dassault Systèmes in the future for managing assets and engineering projects.

Modeling and simulating the replacement of the reactor coolant pump motor was particularly important since any unanticipated delays during the project could cost as much as \$1 million per day in replacement power purchased from other utility companies. The reactor coolant pump, motor, and controls were moved into the containment building during construction in the early 1980s, but many structural elements have been added over the past 25 years that were not in the original design.

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Waterford 3 leveraged CATIA digital 3D models that were created during the fire safety planning project. The up-to-date, dimensionally exact model of the reactor containment area made it possible to find equipment and structural conflicts when simulating the removal of the coolant pump motor. Two interferences were detected by modeling and simulating the task in DELMIA that might have caused major delays.

“Harvesting the use of 3D along with laser scanning technology is as transformational to the engineering and project management disciplines as moving from the slide rule to calculators was in the late 1960s and early ‘70s,” said John Mahoney, innovations leader for Entergy’s Nuclear Operations. “Combining scanning and modeling with up-to-date, advanced planning allows processes that could dramatically reduce the old industry-wide steam generator replacement average of 78.5 days. In some cases that time could be reduced by nearly 20%.”

In the future, Entergy hopes to link the project schedule activities to the 3D model, which will provide the opportunity to continue to effectively shrink outage schedules through critical path scenario optimization.

“[Dassault Systèmes](#) is excited to see the results of DELMIA solutions successfully applied in the energy sector,” said Rolf Gibbels, director, energy industry for Dassault Systèmes. “Benefits that have been realized for decades in the manufacturing world are now being applied to complex construction and maintenance challenges in power generation.”

Headquartered in Jackson, Mississippi, Entergy Nuclear and its EquaGen LLC unit, own and operate the second largest nuclear fleet in North America with 11,022 megawatts of nuclear generating capacity, enough power for nearly 10 million homes. The physical plant work is to be completed in the fall of 2009 when the new reactor coolant pump motor will be installed.

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## ***LEDAS Geometric Constraint Solver LGS 3D Is Licensed By Joe Gibbs Racing***

15 September 2009

[LEDAS Ltd.](#), an independent provider of computational components and software development services for CAD/CAM/CAE/PLM market, announced that Joe Gibbs Racing (JGR) licensed LEDAS geometric constraint solver LGS 3D to use it for design and engineering of racing cars.

LEDAS will deliver LGS 3D component to JGR for 32-bit Windows platform and JGR will embed it in a newly developing CAD application to assembly suspension parts onto the chassis. The end-user application will be deployed to about 50 users including JGR and Toyota Racing Development (TRD) employees.

Geometric constraint solver LGS 3D, developed and supported by LEDAS, is used as a parametric engine for 3D modeling, assembly design, kinematics analysis, history-free geometry editing, and other applications. LGS 3D is a cross-platform software package. It is a set of binary libraries running under all 32- and 64-bit Windows, Mac OS X, Linux, \*BSD, AIX, HP-UX, Sun Solaris and other OS. Coded in C++, LGS 3D has a C-based API that allows integration into a broad range of software applications.

“We are proud to license our constraint solver software component to a world famous group of NASCAR racing team,” commented David Levin, CEO and founder, LEDAS Ltd. “LGS 3D has been used by different software development companies worldwide for several years as the base component for development of parametric bottom-up assemblies. We are happy to see our first customer among

racing teams,” he added.

## **About Joe Gibbs Racing**

Joe Gibbs Racing ([JGR](#)) is one of the premier organizations in NASCAR, currently fielding three NASCAR Sprint Cup Series teams, two NASCAR Nationwide Series teams and a driver development program. Its driver lineup consists of Denny Hamlin, Kyle Busch and Joey Logano in the Sprint Cup Series; and Hamlin, Busch, Logano and Brad Coleman in the Nationwide Series. Based in Huntersville, N.C., and owned by Joe Gibbs - a three-time Super Bowl winner as head coach of the Washington Redskins and a member of the Pro Football Hall of Fame - JGR has competed in NASCAR since 1992, winning three Cup Series championships, and one Nationwide Series owner's championship along with more than 100 NASCAR races, including three Brickyard 400s and the 1993 Daytona 500.

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## ***Maillefer Chooses IFS Applications to Streamline Business Processes***

11 September 2009

IFS announced that Maillefer, a worldwide leader in extrusion and winding solutions to the wire, cable and pipe industries, has chosen IFS Applications to support growth and streamline corporate processes. Implementations will start simultaneously in Switzerland and Finland using a unique group core model, and go-live is expected in early 2010.

Maillefer delivers complete solutions to its customers, such as Nexans, (France), Geberit, (Switzerland), General Cable, (USA), and LS Cable, (South Korea), providing a project-based approach to all the solutions it delivers. Headquartered in Switzerland, Maillefer targets manufacturers of energy, fiber optic and telecom cables as well as plastic pipe manufacturers. Services and products are provided across the entire product value chain, ranging from design, R&D, prototyping and assembly all the way to maintenance and repair.

As part of the implementation of IFS Applications, the Maillefer operations will be able to standardize processes, making it quicker and easier to serve customer needs worldwide.

“We wanted a complete, modern business software system that could support our business plans. At the same time it needed to be agile enough to cover the entire company value chain. The component architecture found in IFS Applications gives it the capacity to deliver a wide range of functionality within the same product using a common user interface, with impressive capabilities to increase user productivity. [IFS](#) Applications is one of the few tools that is project-oriented with very strong engineer-to-order and maintenance capabilities,” [Maillefer](#) CIO Gilles Gauchoux said.

“Maillefer is an excellent example of how IFS’ focused industry approach fits the customer’s needs. IFS Applications provides the range of components Maillefer needs to run its project-based business efficiently,” IFS France President and CEO Amor Bekrar said.

The solution includes core IFS Applications components that provide functionality for project management, manufacturing, financials, and corporate performance management.

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## ***MECAPLAST Group, France, Extends Use of HyperWorks to Optimize Automotive Equipment***

17 September 2009

[Altair Engineering, Inc.](#) announced that MECAPLAST Group, France, one of the leading European automotive suppliers, has extended its use of HyperWorks to optimize its automotive products for weight and performance. Altair's CAE software family will be used within the Finite Element Analysis Department for the Body Skills Centre of the company, which is working closely with the Design Department and the Test & Validation Laboratory of MECAPLAST Group to evaluate technical specifications of its customers via simulation and to provide mechanical improvements toward a 'right-at-first-time' solution. In addition, the department is also working on the optimization of injection molded trim components taking into account tooling constraints.

Being a long-time Altair customer, MECAPLAST Group started using the HyperWorks suite in 2005 with the implementation of HyperMesh. The suite's finite element analysis (FEA) pre-processing software is used for the meshing of virtual models, such as garnish trims and door handles. Soon after, MECAPLAST Group implemented RADIOSS, Altair's FEA solver, into its development process for static and dynamic analysis. Recently, the company expanded its use of the HyperWorks suite to include OptiStruct for structural optimization. OptiStruct will be used to optimize the design of products, such as the inertia/weight ratio of garnish trims.

"When we first started to use HyperWorks, we were looking for an innovative meshing solution," said David Queval, FEA manager, Finite Element Analysis Department of Car Body Skills Centre, MECAPLAST Group. "The advantage of HyperMesh is the time savings we can realize with its automated meshing process. The open architecture design of HyperMesh also allows us to directly import and mesh any CAD model and export FE models to a large panel of commercial solvers. We discovered a cutting-edge solver technology in HyperWorks, RADIOSS, that addresses the needs of our Body Skills Centre and we are now beginning to leverage HyperWorks' optimization solution, OptiStruct. Weight optimization is gaining importance within the automotive industry, and customers and end-users alike are looking for lighter and better products that help to save money and to reduce CO2 emission. OptiStruct will enable us to meet those demands by developing and producing better and lighter parts in less time."

"We are very pleased with MECAPLAST Group's decision to extend its use of HyperWorks," said Mauro Guglielminotti, regional director, Altair, France. "With our HyperWorks CAE suite, we offer engineering companies like [MECAPLAST Group](#) all the simulation tools needed for an optimized development process. The extended use of HyperWorks at MECAPLAST Group will help to streamline development processes and will soon lead to shorter development times and an even better product quality. With OptiStruct, companies can address industry demands for weight- and shape-optimized products and drive the design process with simulation to get better results faster."

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## ***Mitsubishi Cable Industries Selects MSC.Software's Simulation Tools to Optimize Product Design***

15 September 2009

[MSC.Software Corp.](#) announced that Mitsubishi Cable Industries has selected to implement the company's Enterprise Advantage licensing system program to allow access to a wider variety of tools that will enhance their analysis and optimize product design.

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Mitsubishi Cable Industries were previously using MSC.Software's analysis tool, Marc, in the creation of automotive-related products including wire harnesses, connectors, electric wires and cables and sealing products. The flexibility of the Enterprise Advantage licensing system program allows them to enhance innovation by accessing other MSC.Software tools and technology for explicit nonlinear analysis.

"Recent advancements in pre-processing and computation makes it practical to build and test the larger and more complex models that Mitsubishi Cable Industries needs to work with today," said Toshihiro Zushi, General Manager of Central Research Laboratory, Technology Division, Mitsubishi Cable Industries. "The flexibility of the Enterprise Advantage license system meets our needs and is a great selection for a company like us that handles many different types of products and where there is a wide range of CAE applications that continues to rapidly expand."

## About Mitsubishi Cable Industries

Since its founding in 1907, Mitsubishi Cable Industries has been manufacturing and serving products, such as electric wires and cables for general-purpose, high-voltage transmission, telecommunication and construction, cable accessories and installation of power cables etc. With experience-based upon actual results and reliance, the company also provides leading-edge technologies in IT-related products including fiber-optic cables, photonic crystal fibers (PCF), LAN systems, data link, optical devices and others. The company has recently launched new operations and products to expand worldwide.

Mitsubishi Cable Industries is committed to developing and producing an array of products like automotive parts, automotive wiring harnesses, products for Intelligent Transport Systems (ITS), sealing products, O-rings for use in aerospace and industrial-machinery, fine rectangular magnet wire "MEXCEL®" adopted inside electronic devices and others.

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## ***PARTsolutions and Reid Supply Team to Better Serve Designers and Extend Market Reach***

15 September 2009

**PARTsolutions, LLC** announced a strategic partnership with **Reid Supply Company**, a global distributor of industrial products. PARTsolutions now hosts the company's 2D and 3D CAD (Computer Aided Design) digital library. One of the biggest CAD databases in the industrial supply industry, the Reid Supply CAD library welcomes downloaders from around the globe.

"We are very excited to partner with PARTsolutions as they host CAD drawings featuring over 90 percent of the products in our catalog," said Greg Palmer, Director of Marketing at Reid Supply. "This will benefit our customers by providing them more native CAD file formats, all free and downloadable very quickly, and very easily."

The 2D and 3D CAD digital library will save Reid Supply customers significant resources of time and money by inserting the free CAD drawings into their design projects, in whatever format they choose. For Reid Supply it will yield quicker sales and extend their reach into new markets that PARTsolutions has already penetrated.

This announcement comes on the heels of Reid Supply's newly enhanced web site designed with direct input from their customers. According to Palmer, the new **ReidSupply.com** is all about ease of use with a new intuitive smarter search engine and a de-emphasis on marketing. The new site takes the customer exactly where they want to go faster and easier.

# CIMdata PLM Industry Summary

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"The first thing we considered was how we could create a simpler and smarter search application that included our CAD drawings and delivered exactly what customers are looking for," said Palmer. "This is one of the biggest, if not the biggest, free CAD database in the industrial supply industry. Now, with our collaboration with PARTsolutions, it is very beneficial for an engineer or technician, in any industry, to come to ReidSupply.com and simply download the CAD parts they need for their engineering designs."

"Reid Supply Company is taking a leadership position in the industry by investing in technology that will improve **customer loyalty**, efficiency and revenue," said Tim Thomas, CEO, PARTsolutions. "We are thrilled to play such a prominent role in generating growth in Reid Supply's business."

The Reid Supply catalog and more information about the company are available online at [ReidSupply.com](http://ReidSupply.com).

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## ***Rockwell Collins Selects Arbortext® Software For S1000D Initiative***

14 September 2009

PTC announced that [Rockwell Collins](#), a world leading avionics manufacturer in aerospace and defense, has selected [Arbortext®](#), PTC's product information delivery software, for its S1000D initiative. Rockwell Collins will use the Arbortext solution to improve efficiencies and collaboration for product documentation delivery requirements across its aerospace and defense customers.

The S1000D specification is an international standard for creating, maintaining, and delivering technical publications within the civil and military Aerospace & Defense (A&D) industries. The Arbortext offering for S1000D is a fully integrated, out-of-the-box solution that provides tools for rapid compliance with the specification and increases product information quality and accuracy.

With the selection of Arbortext, Rockwell Collins has expanded its use of the PTC® Product Development System. Rockwell Collins, a customer since 1999, will use Arbortext to generate, manage, and deliver product information worldwide, while also improving information security and complying with S1000D mandates. Arbortext for S1000D also provides integrated software components that repurpose S1000D data modules to accommodate the Sharable Content Object Reference Model (SCORM) standard for web-based eLearning.

"Rockwell Collins continues to expand their use of PTC software because it consistently delivers the best technology to achieve their business objectives related to product development and information delivery to improve overall product performance," said Bill Berutti, divisional vice president and general manager, Arbortext Business Unit, PTC. "We look forward to continuing our work with Rockwell Collins as they realize the further value that the PTC Product Development System can bring to their business as they pursue S1000D compliance."

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## ***Sunplus Selects Synopsys as Its Primary EDA Partner***

15 September 2009

Synopsys, Inc. announced that Sunplus Technology Co., Ltd, a leading provider of advanced IC solutions for home entertainment applications, has signed an expanded business agreement to establish

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Synopsys as its primary EDA partner. Under the new multi-year agreement, Sunplus has consolidated on [Synopsys](#)' Galaxy™ Implementation and Discovery™ Verification Platforms for their chip development and design flows, and has extended their use of Synopsys DesignWare® IP.

"As the complexity of our designs has escalated to meet the demands of the rapidly evolving home entertainment markets, Synopsys has proven the reliable choice to help us meet those demands through a combination of tools, IP and services," said Ying-Chih Yang, chief technology officer, Home Entertainment Business Unit of Sunplus. "Using Synopsys products and services on our leading chips enables us to improve our design efficiency and focus on commercializing technologies for easy living."

With this expanded agreement, Sunplus has chosen products across Synopsys' broad portfolio, including the Galaxy Implementation Platform's IC Compiler place-and-route technology, Design Compiler® Ultra synthesis, Formality® power-aware equivalence checking, DFT Compiler, PrimeTime® SI signal integrity analysis, PrimeTime PX power analysis, StarRC™ parasitic extraction, DFTMAX™ compression, TetraMAX® automatic test pattern generation and TetraMAX DSMTest; the Discovery Verification Platform's VCS® and HSPICE® simulators for analog and digital verification; and DesignWare Library's portfolio of synthesizable and verification IP.

"In consumer markets as dynamic as the segments that Sunplus serves, flexibility and predictability are critical success factors in the design process and Sunplus has demonstrated both," said John Chilton, Synopsys' senior vice president of marketing and strategic development. "Looking to the future, our broadened collaboration serves two key objectives for Sunplus: it enables them to continue to deliver differentiated solutions to their customers, and at the same time advance the robustness of their internal design methodologies and flows to support the development of new products."

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## ***TSMC Selects Synopsys HSIM Simulator for Sub-40nm Memory IP Characterization***

14 September 2009

Synopsys, Inc. announced that TSMC has adopted Synopsys' HSIM® hierarchical FastSPICE circuit simulator for its sub-40-nanometer (nm) memory intellectual property (IP) characterization flow. The HSIM simulator will be deployed for TSMC advanced SRAM compilers for timing, power simulation, dynamic IR drop and EM analysis, as well as for full-chip simulation with extracted package models. Using the latest version of the HSIM tool, TSMC is able to improve memory characterization throughput by 10 times while achieving tight correlation to silicon measurements.

"At 40-nanometer nodes and beyond, post-layout parasitic data, power reliability and leakage need to be accounted for when characterizing memories," said ST Juang, senior director of Design Infrastructure Marketing at TSMC. "We had adopted HSIM for our memory IP characterization at previous technology nodes, and after extensive evaluation we chose HSIM for our sub-40-nanometer flow based on its advanced technologies for post-layout analysis and its ability to deliver accurate simulation results while maintaining fast throughput for our largest memory compilers."

As layout geometries shrink, accurate characterization of memories becomes more of a challenge. Previous methodologies that have employed critical path and cut netlists are no longer adequate to accurately verify the impact of cross-coupling effects and layout parasitics. As a result, more customers have adopted the method of verifying the entire memory design, including the chip packaging, for sub-40nm process nodes. HSIM, the technology-leading FastSPICE circuit simulator, addresses this challenge by delivering accurate simulation results with superior performance. HSIM provides a

comprehensive solution for circuit simulation, post-layout analysis, reliability analysis and electrical rule checking.

"TSMC's selection of HSIM for their most advanced memory IP characterization validates our continued R&D investment in circuit simulation technologies," said Paul Lo, senior vice president and general manager of the Analog/Mixed-Signal Group at [Synopsys](#). "Through collaboration with companies like TSMC, we are able to deliver solutions for our customers' toughest circuit verification challenges."

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## Product News

### *A New Software Library for 3D Software Editors*

14 September 2009

Kineo CAM announced the introduction of a brand new software library for software editors who need to add value to their 3D software applications. The innovative software library, called KWS-UAF™, is the first commercial solution that has ever been created to develop efficient interactive features for assembly / mounting and servicing / dismounting of complex systems.

According to Kineo CAM, any commercial software focusing on the review and analysis of digital mock-ups has or should have features that support the dynamic simulation of collision-free motions. KWS-UAF™ is a true innovation that positions itself between low end manual approaches and high end automatic features: the user builds motion interactively but the collisions created during the motion are automatically removed by KWS-UAF™. For this reason KWS-UAF™ can also complement haptic-based systems for finding collision-free paths as a lighter solution; a 6D mouse can do the job.

Another domain in which KWS-UAF™ brings amazing results is Virtual Reality; equipped with a tracking device, the user is immersed to manipulate the part to assemble or to disassemble and KWS-UAF™ manages the collision avoidance. The user drags the part and KWS-UAF™ keeps it clear of collisions with obstacles.

Who can avoid forecasting accessibility issues of a mechanical assembly within 3D Digital Mock-up?

Documenting maintenance feasibility and manufacturing processes are not only internal requirements anymore but are also customers' requirements whatever their industrial field is. KWS-UAF™ is a breakthrough innovative software technology that takes the best from both algorithmic power and user's know-how to find a Collision-free track within a 3D environment.

With this new technique the user manipulates the moving object. While the user moves it, a collision avoidance engine runs underneath and builds the collision-free path. At any time, the closest collision-free position and the current user position are linked by a virtual elastic band; force-feedback gives the user the feeling of simply pulling Ariadne's thread without considering collision avoidance.

Software editors and end-users who want to be amazed can visualize KWS-UAF™ at work:

<http://www.kineocam.com/kws-uaf.php>.

KWS-UAF™ Software Library is a commercial C++ library subject to licensing and sub-licensing for commercial integration.

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## ***Actify Ships SpinFire 8.4***

15 September 2009

Actify Inc. announced the general release of SpinFire 8.4 which includes updates to SpinFire Reader, SpinFire Professional, and the introduction of SpinFire Markup and SpinFire Lite. The new tiered model for SpinFire, along with the availability of four new plug-ins represents a major leap in improved business processes for companies of all sizes.

The release of SpinFire 8.4 features the availability of SpinFireMarkup, which allows users limited measurement and full markup of .3D files and SpinFire Lite, which has full SpinFire Professional functionality without the overhead of importers. SpinFire 8.4's single image executable means that with only one download, users have the capability to choose which SpinFire solution is appropriate for their use. In addition to the two new product levels, the application can be operated in three different platforms: desktop, Microsoft Office and IE Browser.

"The layered approach to SpinFire 8.4 allows all levels of users within an organization to have a product that specifically meets their needs," said Chris Jones, president of Actify. "Whether it's an engineer who needs the full functions and features of SpinFire Professional or someone in sales or marketing who simply needs to review a CAD file and make markups, there is now a product for everyone."

With SpinFire's new design, each tiered product comes with full Microsoft Office Integration. This, along with the Cross Section Plus plug-in which augments SpinFire Professional's cross section capabilities; the Automatic Parts list plug-in which provides a listing of all the subassemblies, parts, and raw materials that go into a parent assembly showing the quantity of each required to make an assembly; and the Automatic Part ID plug-in which allows users to apply markup to all parts, all sub assemblies or single part/sub assembly and work in conjunction with the Automatic parts list plug-in makes the release of 8.4 a strategic advantage for all SpinFire users.

"We always try to cater to the needs of our customers," said Chris Jones. "With the advent of SpinFire 8.4, our customers can experience greater cost savings and become more efficient using the tools in the Actify suite of Products. Likewise, prospects are no longer prohibited by cost or functionality concerns. In today's economy, a solution like SpinFire 8.4 which provides options , can be appreciated by all companies."

SpinFire 8.4 is available in English, French, German, Italian, Korean, Japanese, Simplified Chinese, and Traditional Chinese. A free trial version of the product is available for download at <http://www.actify.com>.

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## ***Agilent Technologies' New 3GPP LTE Baseband Exploration Library Enables Throughput Verification for Algorithm, Hardware Developers***

16 September 2009

Agilent Technologies Inc. introduced a new LTE baseband exploration library for the [SystemVue 2009 design platform](#). The library ([version W1912](#)) provides full source-code access to PHY golden reference algorithms that are consistent with the 3GPP LTE March 2009 standard. Agilent's new LTE library provides key advances for 3GPP LTE baseband algorithm and hardware developers designing next-generation 4G wireless systems, enabling simulation-based throughput performance measurements as well as a graphical user interface that simplifies complex configurations.

## Enabling IP Access for 3GPP LTE PHY Design

Agilent's W1912 simulation library unlocks algorithmic-level source code in C++ and provides working link-level reference designs with test benches based on version 8.6 of the 3GPP LTE TS36-101, 104 standards, including HARQ support. The source code allows engineers to investigate algorithms inside a working LTE baseband PHY, setting breakpoints and saving time by creating critical test vectors and verification suites. Since the W1912 library interoperates with Agilent's measurement sources (e.g., the [N5106A PXB](#) and [N5182 MXG](#)), receivers (e.g., the [N9020A MXA](#)) and software (e.g., the [89600 VSA](#)), baseband architects can now quickly harden real-world algorithms in emerging areas of FDD LTE, TD-LTE and MIMO. A simulation-only version of the library ([W1910](#)) is also available.

"Access to LTE source code is of critical importance in creating the early test solutions hardware developers require to develop high-quality, market-leading LTE user equipment devices and chipsets," said Niels Faché, vice president and general manager of Agilent's Mobile Broadband Operation. "Using SystemVue, along with the new LTE model library, for example, we were able to successfully [shave three months](#) off the development of a baseband signal-processing implementation for our new E6620A LTE one box tester. With savings like this, SystemVue 2009 and its new LTE library are quickly becoming an indispensable tool for today's 3GPP LTE baseband algorithm and hardware developers."

## Predictive Throughput Measurements

Agilent also today introduced an innovative new dynamic dataflow simulator mode for SystemVue 2009, which enables simulation-based throughput verification, as specified in version 8.6 of the LTE standard. Baseband designers can now create and verify robust algorithms that ensure system throughput performance and greater coverage of the Layer 1 standard, long before physical prototypes are actually available for test, thus shortening design cycles. This is the result of SystemVue's new sub-frame communication HARQ support, which extends the physical layer to allow new dynamic behaviors, while retaining the versatility and RF accuracy of the physical layer approach.

Both the source code and compiled-only LTE libraries follow the development cycle from system-level design to test. As blocks move from concept to virtual prototype to working link-level hardware, the libraries' Source and Receiver user interfaces allow hardware designers to configure test vectors for block-level debug. Throughout the design process, the same environment and test set-ups provide link-level verification against the 3GPP-LTE standard, continuing directly into hardware test.

## About SystemVue 2009

SystemVue 2009 is Agilent's new electronic design automation (EDA) platform for electronic system-level (ESL) design. The new platform cuts physical layer (PHY) design time in half for high-performance communications algorithms and system architectures, for both wireless and aerospace/defense applications.

## U.S. Pricing and Availability

Agilent's new LTE baseband exploration library, version 8.6, for SystemVue 2009 is expected to be available on Sept. 25, 2009. SystemVue configurations start at approximately \$15,000 for the environment and \$16,000 for the simulation-only version of the library (W1910). For pricing on full source code access (W1912), please contact Agilent directly.

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## *ANSYS Releases HFSS 12.0 Engineering Simulation Software*

17 September 2009

[ANSYS, Inc.](#) announced the release of HFSS™ 12.0 software, a technology for 3-D full-wave electromagnetic field simulation. The product, part of the Ansoft suite, helps engineers design, simulate and validate the behavior of complex high-performance radio frequency (RF), microwave and millimeter-wave devices in next-generation wireless communication and defense systems. A key high-performance computing (HPC) enhancement, domain decomposition, allows engineers to simulate and design at a scale and speed never before possible. Users of this latest version of HFSS software can achieve a dramatic reduction in development time and costs while at the same time realizing increased reliability and design optimization.

With the release of HFSS 12.0, ANSYS follows through on its commitment to deliver technology with unequalled depth and unparalleled breadth. HFSS 12.0 is a major step forward for three-dimensional full-wave electromagnetic field simulation. The software includes key updates in mesh generation, solver technologies, and enhancements to the user interface and the modeler. A new, faster and more robust meshing algorithm generates higher-quality, more efficient tetrahedral meshes. The most significant solver technology enhancement is domain decomposition, a technique that allows HFSS to exploit HPC capabilities to solve electromagnetic field problems of unprecedented size and scope. Other important enhancements include mixed element orders, curvilinear elements, and adjoint derivative computation. Ease of use and automation in the user interface have been improved and include additional modeler capabilities such as sheet wrapping and imprinting. These advances in HFSS 12.0 enable electrical engineers to expand their solution capability, exploit HPC hardware and fully integrate electromagnetics analysis into their Simulation Driven Product Development™ processes.

“HFSS 12.0 is a breakthrough in high-frequency electromagnetic field simulation,” said Zol Cendes, chief technology officer and general manager at Ansoft. “For the first time, engineers are able to solve vast electromagnetic field problems with speed, efficiency and accuracy. Because of domain decomposition, microwave and electronics engineers now have the opportunity to successfully address a new range of problems containing hundreds of millions of unknowns that previously could not be addressed by simulation. The ANSYS focus on developing simulation technology that takes full advantage of modern computer hardware solutions means that customers will have future capabilities that, today, we can only imagine.”

The new domain decomposition technology in HFSS 12.0 software allows efficient and highly scalable parallelized simulations across multiple computer cores including networked cores. In running a 15-GB benchmark on an HP 7880 workstation, domain decomposition using eight cores exhibited an 8.8-times speedup with a 33 percent memory savings compared to a single-core direct solve.

Curvilinear elements and mixed element orders allow for higher accuracy and more efficient distribution of computational resources. Curvilinear elements model the fields exactly on curved surfaces and in these cases provide higher accuracy even with a coarser mesh discretization. Mixed element orders allows for an automated and judicious localized application of element order. Smaller features are solved more efficiently by lower-order elements while large homogenous regions benefit from higher-order elements, all element orders being automatically and appropriately “mixed” in one mesh.

Molex Incorporated, a leading supplier of electronic connectors and interconnect products, was among the organizations that participated in beta testing the new release. The company investigated a number of features, including the new TAU volumetric meshing technique, whose robust tet mesh elements reduce

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the overall load on the solver. "The new TAU meshing and mixed element orders technology in HFSS 12.0 will allow Molex engineers to more accurately and efficiently simulate and design," said Dave Dunham, engineering director at Molex. "We have more than doubled productivity with the implementation of HFSS 12.0 in our design flow."

Adjoint derivative computation provides a highly efficient and accurate procedure to evaluate the derivatives of S-parameters with respect to geometric and material model parameter variations. This technique provides sensitivity information for use in device tuning, tolerance evaluation and optimization. These derivatives are employed to speed up the sequential nonlinear programming (SNLP) optimizer included with the Optimetrics™ add-on program.

New features in HFSS 12.0 software include:

- New TAU meshing technology
- Domain decomposition solver technology
- Curvilinear elements
- Mixed element orders
- Adjoint derivative computation
- Update to ACIS R19.2
- Improved link with ANSYS® DesignXplorer™ software



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## ***Autodesk Releases SketchBook Mobile on the App Store***

17 September 2009

[Autodesk, Inc.](#) announced that [Autodesk SketchBook Mobile](#) is available on the App Store. Autodesk SketchBook Mobile is a new professional-grade paint and drawing app that offers a full set of sketching tools in a streamlined and intuitive user interface designed specifically for the iPhone and iPod touch.

"Mobile apps are becoming increasingly advanced, moving beyond simple entertainment or utilitarianism," said Robert "Buzz" Kross, senior vice president, Manufacturing Industry Group at Autodesk. "We are delighted to offer an app on the App Store for industrial designers and the creative community. With the SketchBook Mobile App, Autodesk continues its long-standing tradition of bringing cost-effective professional design technology to the market."

The SketchBook Mobile App uses the same engine as [Autodesk SketchBook Pro](#) painting and drawing software, delivering much of the same power and functionality as the desktop application. A combination of high-quality digital pencils, pens, markers and airbrushes, as well as an artist-friendly, gesture-based user interface, enables users to create everything from quick sketches to print-quality production artwork.

Key features in the SketchBook Mobile App include:

**Layers** - Drawings can contain up to six layers.

**Brushes** - The software comes with 25 preset brushes and completely customizable brush settings.

**Color selection** - Customizable color swatches and a color wheel with RGB sliders provide a virtually

unlimited palette.

"Sketchbook Mobile is more than a fun drawing and painting App, it's a tool for serious illustrators and artists," said Susan Murtaugh, graphic artist. "Everything I need is included at a price point that can't be beat - advanced layers, photo import and a variety of customizable brushes, including pencil, paint, texture and airbrush. Most important, all the tools simulate pressure sensitivity, giving each variable width and transparency that takes mobile sketching to a new level."

Content that is created in SketchBook Mobile can be saved as a picture and opened in SketchBook Pro. As a result, artists, designers and anyone who likes to sketch or create artwork can create a drawing at any time with SketchBook Mobile, and continue building on their idea in SketchBook Pro.

SketchBook Mobile App is available for \$2.99 from the App Store on iPhone and iPod touch or at [www.itunes.com/appstore/](http://www.itunes.com/appstore/).

A free\* Autodesk SketchBook Mobile Express App is also available on the App Store. To learn more about the SketchBook Mobile App and the SketchBook Mobile Express App, or to download a copy, please visit [www.autodesk.com/sketchbookmobile](http://www.autodesk.com/sketchbookmobile).

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## ***CGS Raises the Bar for Enterprise Software with Launch of All New BlueCherry® Infinity***

16 September 2009

Computer Generated Solutions Inc. ([CGS](#)) unveiled its all new BlueCherry® Infinity enterprise software solution at a special launch event held at the Fashion Institute of Technology (FIT) in Manhattan. A massive, three-year long research and development effort—supported by thousands of person-days—delivered a completely redesigned system that significantly advances the capabilities and benefits of the company's flagship product. BlueCherry Infinity leverages the latest in Microsoft® technology to deliver what early adopters have described as a robust and user-friendly business solution. Following intensive internal testing and initial client implementations, the new software is now available for general delivery in either on-premise or hosted software-as-a-service (SaaS) configurations.

"We see BlueCherry Infinity as one of the most significant innovations in our 25-year history," said Phil Friedman, president and CEO of CGS. "We took a different approach. While many companies have cut their R&D budgets in this challenging environment, we have invested heavily to enhance our products. After witnessing the early market reaction to the new release, we are confident that we are now uniquely qualified and positioned to help our rapidly expanding customer community to succeed well into the future."

BlueCherry Infinity has been redesigned from the ground-up around a new, more robust and scalable system architecture. It employs the latest database technology (Microsoft SQL Server 2008) and development framework (Microsoft .NET) to drive greater productivity and value for clients through a superior user experience, lowest-in-class total cost of ownership (TCO) and accelerated time-to-benefit.

Key additions and enhancements found in BlueCherry Infinity include:

- **Comprehensive Solution:** BlueCherry Infinity extends the functional capabilities of earlier releases by delivering the most comprehensive set of industry-specific, concept-to-consumer capabilities available in a single, modular business solution, including Enterprise Resource Planning (ERP); Product Lifecycle Management (PLM); Supply Chain Management (SCM); Shop Floor Control (SFC);

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Warehouse Management (WMS); E-Commerce; Sales Force Automation (SFA); Business Intelligence (BI); and Electronic Data Interchange (EDI).

- **Superior User Experience:** BlueCherry Infinity combines a comfortable, consistent Microsoft Office-like user interface with innovative search and data retrieval tools to improve user acceptance and productivity. Easy to configure dashboards, menus, forms, and reports allow users to design the experience that works best for them, while system-wide alerts and notifications keep everyone focused on the most important issues and enables advanced management by exception.
- **Lowest Total Cost of Ownership:** BlueCherry Infinity significantly reduces the time and cost associated with implementing and maintaining a business system. The new 'zero-code' configuration enables companies to tailor the system without modifying source code. To protect existing customers' investments in BlueCherry, the new release delivers one-button system upgrades, managed through an exclusive Q-Site utility. New, more robust security configuration tools allow for managing user permissions at the individual field level.
- **Robust Architecture:** BlueCherry Infinity utilizes multi-tier architecture to scale to any size business with unrivaled system stability. Web-based technologies streamline operations and speed transaction processing. Furthermore, BlueCherry's modular design allows companies to implement only the components needed and open API tools support quick and safe integration with 3rd-party applications.
- **Latest, Best-of-Breed Technology:** BlueCherry Infinity is built on the Microsoft .NET framework to deliver a secure, scalable and visually stunning experience, leveraging Microsoft Silverlight and Windows Presentation Foundation (WPF) to provide a graphically-rich user experience that is consistent on both the desktop and over the web. The Microsoft SQL Server database delivers affordable performance and scalability while the new system supports both 32- and 64-bit technology.

BlueCherry customers also benefit from the largest and most active ERP user community in the soft-goods industry, including the BlueCherry Customer Advisory Council (CAC), BlueCherry University (BCU) and both vendor-sponsored and independent BlueCherry user-groups.

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## ***Collaboration between Microsoft and PTC: When the world of social networking meets product development***

16 September 2009

The following is a Google language tool translation of the press release, Collaboration entre Microsoft et PTC : Quand l'univers des réseaux sociaux rencontre le développement produits. Both the translation and the original press release follow.

PTC is stepping up its collaboration with Microsoft in the field of networks called 'social'. PTC believes that the market is on the verge of a major shift in terms of product development. The turning point will be marked by the combination of social networks in the world of product development: a concept known as Social Product Development.

"Collaboration is always a key component of product development. Today's technologies focus on the possibility for companies to share information and knowledge among team members in a secure and friendly environment," said Rob Gremley, Executive Vice-President Communication and Marketing at PTC.

# CIMdata PLM Industry Summary

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According to a recent study conducted by Forrester for PTC Consulting survey of 7 000 software users 89% of people use some form of technology 'social' at least once a month and 70% use these technologies for business purposes.

For Kathleen Winder, Director of SharePoint Collaboration Partnerships, Microsoft. "Microsoft ® Office SharePoint ® Server 2007 (MOSS) combines Web 2.0 technologies for social networks to enhance collaboration in a professional environment. PTC brings his side to a value added product development through its Windchill solution ProductPoint, which extends the platform Microsoft Office SharePoint Server and allows the use of structured CAD data and products "

The PTC ® technology designed to support the Social Product Development consists of three software layers combined into a single platform complete, secure and easy to use:

- Microsoft Office SharePoint Server 2007 (MOSS) for documentation, collaboration and social networking;
- ProductPoint ® Windchill ® PTC for the sharing and reuse of structured content, such as CAD models;
- A layer of creative applications may include PTC Pro / ENGINEER ® to create digital models, PTC ProductView™ for visualization, annotation, and review of numerical models lighter, PTC Mathcad ® for documentation of calculations of engineering and Microsoft ® Office for creating documents, spreadsheets, presentations or other content.

For more information: <http://www.ptc.com/solutions/social-product-development/>

## ***Collaboration entre Microsoft et PTC : Quand l'univers des réseaux sociaux rencontre le développement produits***

Microsoft et PTC collaborent à la mise au point d'une plate-forme de développement produits destinée à encourager la communication, la collaboration et l'innovation dans un environnement Web 2.0.

PTC accentue sa collaboration avec Microsoft dans le domaine des réseaux dits 'sociaux'. PTC estime que le marché est à l'aube d'un tournant majeur en termes de développement produits. Ce tournant sera marqué par l'association des réseaux sociaux à l'univers du développement produits : un concept dénommé Social Product Development.

« La collaboration représente depuis toujours une composante clé du développement produits. Les technologies d'aujourd'hui mettent l'accent sur la possibilité, pour les entreprises, de partager informations et connaissances entre les membres d'une équipe au sein d'un environnement sécurisé et convivial », explique Rob Gremley, Executive Vice-President Communication et Marketing de PTC.

Selon une étude récente, réalisée pour PTC par Forrester Consulting auprès de 7 000 utilisateurs de logiciels 89 % des personnes utilisent une forme de technologies 'sociales' au moins une fois par mois et 70 % utilisent ces technologies à des fins professionnelles.

Pour Kathleen Winder, Directrice de SharePoint Collaboration Partnerships, Microsoft. « Microsoft® Office SharePoint® Server 2007 (MOSS) associe le Web 2.0 aux technologies de réseaux sociaux pour renforcer la collaboration dans un environnement professionnel. PTC apporte de son côté une valeur ajoutée au développement produits grâce à sa solution Windchill ProductPoint, qui étend la plate-forme Microsoft Office SharePoint Server et permet ainsi l'utilisation structurée de données CAO et produits »

La technologie de PTC® destinée à prendre en charge le Social Product Development se compose de trois couches logicielles regroupées en une seule plate-forme intégrale, sécurisée et facile d'utilisation :

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- Microsoft Office SharePoint Server 2007 (MOSS) pour la documentation, la collaboration et le réseau social ;
- Windchill® ProductPoint® de PTC pour le partage et la réutilisation de contenu structuré, tel que les modèles de CAO ;
- Une couche d'applications de création pouvant inclure PTC Pro/ENGINEER® pour la création de modèles numériques, PTC ProductView™ pour la visualisation, les annotations , et la revue de maquettes numériques allégées, PTC Mathcad® pour la documentation de calculs d'ingénierie et Microsoft Office® pour la création de documents, feuilles de calcul, présentations ou autres contenus.

Pour en savoir plus : <http://www.ptc.com/solutions/social-product-development/>

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## ***Cranes Software Releases the Latest Version of its FEA Software Suite - NISA***

15 September 2009

[Cranes Software](#) announced the release of the latest version of its leading Finite Element Analysis software, NISA Version 17. This significantly improved version offers an enhanced DISPLAY IV, NISA's powerful interactive graphics Pre and Post-processor. The new DISPLAY software streamlines complex finite element modeling, analysis and results interpretation for a better user experience. Additionally, the new DISPLAY has improved interoperability allowing it to interface more easily with a variety of popular CAD file formats.

A major enhancement in DISPLAY IV is the new advanced tetra-meshing capability, allowing users to easily create solid mesh models with minimal effort. New context-based menus and toolbars have been added along with functional keys for quick and easy access to all options. Additionally, contact-element creation based on user-defined tolerances has been added. To enable users to generate reports in HTML with ease, report generation capabilities have been added in the Pre and Post-processing steps.

NISA Version 17 now allows users the ability to create more complex and detailed models by extending node and element numbers to eight digits allowing much larger problems to be solved. The advanced NISA solvers have also undergone significant improvements. For example, Augmented Lagrangian formulation for surface to surface contact-element has been added. Fatigue analysis of spot-welds is now supported in ENDURE, NISA's fatigue and fracture module. HEAT III, NISA's heat transfer module is now incorporated in EMAG, the electromagnetic module of NISA, to allow coupled electromagnetic and heat transfer analysis. Another significant development in NISA Version 17 is its integration with Engineering Technology Associates' (<http://www.eta.com>) software product eta/VPG, an advanced FEA-based system analysis tool.

Vipul Kinariwala, Product Director, NISA Software said, "We're absolutely thrilled to announce the release of NISA V17. It offers over 25 major new features; most notably are the advanced Tet meshing, advanced surface meshing and automatic contact element creation features. NISA now supports up to ten million nodes which facilitates solution of problems requiring larger models. With these new capabilities NISA now ranks amongst the most advanced FEA packages commercially available. In this version heat analysis is coupled with electromagnetic analysis; OEM's of transformers, motors, alternators, etc will benefit immensely from this new capability. We are confident V17 will go a long way in satisfying the most discerning of FE analysts."

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## ***Edgecam 2010 R1 Turns up the Performance***

18 September 2009

Planit Software's Edgecam Computer Aided Manufacturing (CAM) software, Edgecam 2010 R1, offers performance and efficiency gains for turning centres and CNC lathes.

Improving the machining efficiency of turned and mill-turned parts, Edgecam 2010 R1 continues the enhancing and updating work started in 2009 R2. Now, all the Turning Operations interface with pictures and improved functionality, making every turning operation more intuitive for the user.

Offering significant efficiency gains with single point cutting, the Finish Turning cycle minimises the user input by automating all finishing strategies. For example, following a roughing operation, or the application of a cutting tool too large to access certain design features on the part, the Finish Turning cycle will now automatically detect remaining stock on the component and write the code to machine just those areas with a finishing tool. This removes the need to manually select start and finish points or run through 'air cutting cycles'.

Grooving is often considered the most troublesome turning operation. Addressing this, Edgecam 2010 R1 features additional controls added to the Rough Grooving cycle. These are designed to improve material removal rates and prolong tool life. A new peck across option allows grooves to be generated in incremental layers, which improves the chip flow effectively stopping the swarf stringing together and forming a 'bird's nest' on the cutting tool. Improved feed rate controls have also been added to the castellation cutting operation, making this highly efficient turning method even quicker.

The much anticipated Microsoft Windows 7 operating system will be officially released on October 22nd 2009. Even though Edgecam 2010 R1 will be released before this the software will be supporting this new operating system. Windows 7 makes the most of powerful 64-bit PCs, the new desktop standard.

Edgecam offers a complete solution for milling, turning and mill-turn programming with ease of use and sophisticated toolpath generation. Edgecam is a principal brand of the Planit group – recently ranked by CIMdata as the world's fastest growing CAM vendor (CIMdata [NC Software Market Assessment Report](#)), with most industrial users. For further information visit: <http://www.edgecam.com>

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## ***Elysium Inc. Announces CADdoctor EX4.1***

16 September 2009

Less than six months after the release of CADdoctor EX4.0, Elysium is pleased to announce their newest enhancements in CADdoctor EX4.1.

CADdoctor EX4.1 is a minor version upgrade for CADdoctor EX4.0

Details of this release are as follows:

1. Product name: CADdoctor EX4.1
2. Version EX4.1

# CIMdata PLM Industry Summary

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3. Intended Users: CADdoctor licensee with maintenance agreement

4. Release date: September 18, 2009

5. Distribution: The installer can be accessed via

<http://techsupport.elysiuminc.com>

6. Contents: CADdoctor patch installer (x86,x64)

\*Please note - In order to install EX4.1 you must follow the path:

EX4.0 to EX4.0.1 to EX4.0.2 to EX4.1 \*

7. Updated components include:

a) Geometry Simplification

- Capable of automatic detection/removal of boss/rib
- Addition of a Boundary Geometry editing function

Improvement of the performance for fillet removal

- Improvement of the performance for automatic detection of invisible parts in the Envelope Solid mode

b) Reverse Engineering

- Improvement of the performance for CAD-Polygon fitting

c) Polygon Extension

- Addition of the Polygon offset function
- Capable of multiple selection of parts for facetting

d) Quality Check for Mold Manufacturing

- Addition of an Adjustment Function to control image sizes on the report

e) Geometry Verification

- Performance improvement of the large-scale assembly results display

f) Parasolid Output

- Capability to translate edge colors

For inquiries or additional information, please feel contact:

Elysium Inc. Email: [info@elysiuminc.com](mailto:info@elysiuminc.com)

Phone: +1-248-799-9800

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## ***EVE's New ZeBu-Server Offers Fast Compile Time***

15 September 2009

EVE said that its new emulation system [ZeBu-Server](#) offers fast compile times that range from five- to 30-million gates per hour on PC farms, depending on the design's complexity.

In a recent benchmark, ZeBu-Server software compiled a 200-million gate design in less than 10 hours, and a one-billion gate design in less than 12 hours.

With its fully parallel synthesis, partitioning and place and route features, ZeBu-Server can accelerate first-time compilation, while an incremental compilation capability speeds design changes. The compiler includes a multicore acceleration capability to break the linearity of the compile time on large designs. It can increase compilation speed to a maximum of 100-million gates per hour on designs with hundreds of million gates.

ZeBu-Server offers automated, fast and incremental compilation from SystemVerilog, Verilog and VHDL register transfer level (RTL) code. As an interactive hardware/software debugging tool, it includes complete RTL signal waveform dumping and support for SystemVerilog Assertions.

Priced from \$150,000, it is suitable for all system-on-chip (SoC) verification needs across the entire development cycle, from hardware verification, hardware/software integration to embedded software validation.

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## ***Flux – Equipping Technical Innovation in Device Design***

11 September 2009

Magsoft Corporation announces the release of [Flux Version 10.3](#). [Flux tools](#) are Finite Element Method (FEM) based software developed by Cedrat of Grenoble, France. Flux computes physical data for electromagnetic and electromechanical phenomena.

[Flux](#) allows one to accomplish design validation by switching away from a reliance on physical prototyping and to develop a new reliance upon virtual prototyping. Users can setup the same experiments and collect the same data for a given design idea. Additional viewing ports into unseen device response can also be used to more thoroughly review behavior.

The core technology of [Flux](#) incorporates both java and python programming languages, and this has allowed for a versatile command line control of the software process. With Flux V10.3 this command line control is now available from start to finish throughout the simulation for all 2D and 3D applications.

Clever use of this capability allows one to perform experiments automatically. Users can also create macros for individual tasks which may be used regularly within the simulation process for creating or modifying their constructs.

Users can construct their devices with [Flux's](#) foundational parameter control, and then initiate experiments with one-time value modifications or they can take advantage of the new solution scenario capability; generating a range of values for a given parameter or set of parameters. Furthermore, these scenarios can be created, saved and re-used to insure that desired experiments in the future are reliably carried out for each and every design.

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Great strides have been made also regarding the interoperability of [Flux](#).

- CAD imports and exports are more robust than ever
  - Native CAD files
  - Neutral file formats
- Flux can be driven by System Level co-simulation
  - MATLAB/ Simulink
  - Portunus
- Electric machines imports/ exports and overlays
  - SPEED
  - Motor-CAD
- Solution data export
  - MATLAB
  - Excel
- Multi-physics co-simulation

According to Tan Pham, Technical Director at Magsoft, “Flux allows a user to dream and explore design ideas with less constraints and more creativity. They can perform pertinent experiments on their ideas and then thoroughly assess the outcome. The new capabilities of Flux allow each user to innovate and to do so in a minimum of time and with a minimum of expense.”

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## ***KeyCreator Version 9 to Deliver 3D Dimension-Driven Editing Improvements***

17 September 2009

[Kubotek](#) announced that KeyCreator Version 9 will be available this fall.

Highlighted in KeyCreator Version 9 will be direct dimension-driven editing. [KeyCreator](#) Version 9 will display significant improvements in the 3D placement of smart dimensions on solids. This furthers Kubotek’s dimension-driven editing capabilities, creating a fast environment for precise, unrestricted, direct editing of mechanical solids. This new approach also provides a simple and intuitive alternative to traditional solid modeling which constrains models based on how they were constructed.

Additionally, KeyCreator Version 9 will include these noteworthy performance and productivity enhancements:

Faster loading and more efficient memory use when opening large non-KeyCreator files

New file size optimization routines create smaller CKD files

Improved graphics algorithm for faster frame rates

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New display options for improved visual display and performance

Windows 7 support

Enhanced associative part mating functionality

New dynamic 3D handle operator for moving entities

New detailing options for productivity gains

A short [video](#) is available to demonstrate the planned dimension-driven enhancements.

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## ***Lattice Technology Announces Lattice3D Dataway***

16 September 2009

Lattice Technology® announced the upcoming release of Lattice3D Dataway.

Lattice3D Dataway seamlessly delivers multiple 3D CAD data files, on demand, directly into Lattice Technology's XVL applications. Once 3D data is in XVL, it can be used for Digital Mockup (DMU) activities and in creating accurate, high quality 3D technical documents for downstream manufacturing disciplines. The data can be saved into common document formats such as PDF, XVL, Excel and HTML as required by the user. It is the first commercially-available product developed using the Adobe 3D OEM platform.

Lattice3D Dataway allows 3D CAD data from all major MCAD, 3D PDF and industry standard formats to be read directly into the XVL Studio and Lattice3D Reporter applications. Once the data is in XVL Studio it can be used for creation of MBOMs, 3D assembly animations, simulations and instructions, high quality 2D illustrations, 3D parts lists and more. When complete, the 3D manufacturing data can be read out to 3D PDF or XVL for use across the supply chain, shop floor, support, maintenance and repair and other departments in manufacturing.

Lattice3D Reporter allows 3D data to be read directly into a Microsoft Excel spreadsheet, along with interrelated parts lists, assembly instructions, with 3D animations if available. These documents are used across the manufacturing enterprise building significant accuracy and productivity in product manufacturing processes.

“Adobe’s 3D OEM platform has made this possible and offers our users a powerful, streamlined platform for handling just about every 3D CAD format into XVL, on-demand,” said Bill Barnes, General Manager, Lattice Technology. “We are excited about what Lattice3D Dataway means to many of our customers, who face the challenge of working with data from multiple 3D CAD systems, yet still want the benefits that XVL applications deliver. Now it means they can build significant productivity improvements into their operations using affordable, easy-to-use applications from Lattice Technology.”

Lattice3D Dataway will be available for evaluation and purchase on 22 September, 2009 via the Lattice Technology web site and its network of resellers, at <http://www.lattice3d.com>.

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## ***Maplesoft Announces Partnership with Siemens PLM Software***

10 September 2009

# CIMdata PLM Industry Summary

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Maplesoft™ announced a partnership with Siemens PLM Software. Maple™, the technical computing software from Maplesoft, supplies important analysis capabilities to CAD systems, giving users of NX™ software, the digital product development solution from Siemens PLM Software, the ability to use the computational power of Maple to analyze and optimize designs.

Maple 13 delivers a broad suite of math and analysis tools in an interface that scales easily from quick design calculations to full application development. From the world's most robust math engine and live design documentation to CAD connectivity and code generation, Maple supports all stages of the design lifecycle. Using Maple, design engineers can answer questions such as “What are the mathematical relationships between objects?” and “How do changes to object properties impact other objects?” NX connectivity also provides a convenient way to start Maple from within the NX environment.

Some key advantages of connecting NX with Maple include the following:

- Users can retrieve parameters from an NX CAD model, optimize those parameters, and update the CAD model with the revised parameter values directly within the Maple environment.
- The CAD Link Assistant in Maple provides a quick, interactive way to experiment with the NX CAD Connectivity functionality without having to write code.
- With the CAD Link Assistant in Maple, it is easy to browse the scalar quantities in an NX CAD design, so it can be used as a tool to aid in writing your own CAD-capable worksheets.
- Using the Maple programming language and built-in API commands, NX users can create specialized tools for part reconfiguration and optimization.

“The addition of Maplesoft to the Siemens PLM Software Partner Program is part of our commitment to continuously provide customers with the broadest range of high-quality software tools that complement our own offerings,” said Rich Ramsey, vice president of Partner and Components Marketing, Siemens PLM Software. “NX users who choose to implement Maple software will benefit from its ability to reduce the time needed to create complex designs and perform deep analysis.”

“Expanding Maple’s CAD connectivity to include Siemens PLM Software’s NX, provides more choices and flexibility to our current users,” said Laurent Bernardin, Executive Vice President, Maplesoft. “NX users will gain immense power from Maple since no other product on the market can provide the same computational power, mathematical breadth and depth, mathematically aware programming language, and application creation tools and connectivity options, all integrated into a highly intuitive technical-document environment.”

Maplesoft’s vision for design engineers is realized through tools that employ its core technologies, which include advanced symbolic computation engine (in Maple) and physical modeling techniques (in MapleSim). Together, they provide engineers with cutting-edge tools for design, modeling, and high-performance simulation that can lower costs and reduce product cycle time by weeks and months. Partnerships, such as the one with Siemens PLM Software, allow Maplesoft to bring these core technologies to a broader range of engineers.

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***Mentor Graphics and Applied Materials Deploy OASIS.MASK Open Data Standard for Higher Efficiency Mask Manufacturing***

14 September 2009

# CIMdata PLM Industry Summary

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Mentor Graphics Corporation and [Applied Materials, Inc.](#) announced an important milestone in the adoption of open data formats for mask manufacturing. The first volume production deployment of the new OASIS.MASK (SEMI standard P44) format was performed on Applied's Aera2™ advanced mask inspection systems using Mentor Graphics' mask data preparation software technology. The new format greatly simplifies the task of creating the complex, high fidelity photomasks that are vital to fabricating semiconductor devices at 32nm and below technology nodes.

OASIS.MASK (Open Artwork System Interchange Standard for Photomasks) is an open standard interchange format used to represent and express chip level physical and mask layout data. The OASIS.MASK format reduces the size of mask data files by approximately one-half, eliminating the file transfer bottleneck between software tools and mask manufacturing equipment – a key benefit with today's near-terabyte file sizes. As an open interface, it enables the same data file to be used for pattern generation, metrology and inspection, simplifying mask manufacturing process flows by eliminating complex format conversion steps.

“We are working with Mentor Graphics, a leader in the adoption of OASIS standards, to improve efficiency up and down the mask-making value chain by encouraging the adoption of open standards,” said Tom St. Dennis, senior vice president and general manager of Applied's Silicon Systems Group. “By incorporating the OASIS.MASK format in our Aera2 systems, we can continue to provide the most competitive, high throughput, die-to-database inspection solutions for our most advanced customers.”

“Applied Materials' decision to implement OASIS.MASK in their products shows the value of OASIS mask data format,” said Joseph Sawicki, vice president and general manager for the Design-to-Silicon division at Mentor Graphics. “Mentor's experience with OASIS goes back to the development of the original OASIS format (SEMI standard P39), so incorporating our technology into Aera2 was a logical extension of our product efforts. The use of OASIS.MASK for mask manufacturing is fully supported by the Calibre® platform in the Calibre FRACTUREv™, Calibre MDPverify™, and Calibre MDPview™ products, which are all available today.”

Applied and [Mentor](#) will showcase their pioneering deployment of OASIS.MASK in a production environment at SPIE Photomask 2009, the mask-making industry's premier technical symposium, to be held September 14-17 in Monterey, California.

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## ***Nemetschek North America Launches the Vectorworks 2010 Product Line***

15 September 2009

Nemetschek North America announced the 2010 release of their Vectorworks® line of design software, including: Designer, Architect, Landmark, Spotlight, Machine Design, Fundamentals, and Renderworks™.

"Making Change Easy" is the theme for the Vectorworks 2010 product line. Building upon the integration of the Parasolid® 3D modeling core in 2009, version 2010 is making change easy with the addition of bi-directional associativity features and an intuitive, easy-to-approach 3D modeling environment. These capabilities ensure that changes are intelligently reflected throughout the entire design which is a cornerstone for information modeling workflows in the building industry and beyond.

"Demand for more efficient design and construction over the past several years has led many professionals to evaluate making a change in their technologies and workflows to incorporate intelligent

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modeling software," states Sean Flaherty, CEO of Nemetschek North America. "Many small- and medium-sized firms find the transition to information modeling workflows difficult, as technologies are hard to learn and complicated to use. The additions to Vectorworks 2010 are going to help remove these barriers and make the change for designers easy."

According to recent CAD manager surveys, technology use is up—particularly 3D—which has increased more than 30 percent in the last year. Vectorworks is the perfect choice for designers who want to embrace this change without turning their firms upside down. Vectorworks software offers an intuitive 3D environment with unified views, easy-to-use 3D snapping for accurate modeling, and the world's best 3D modeling core.

With the release of Vectorworks 2010, Nemetschek North America has also extended its relationship with Siemens PLM Software further by integrating the D-Cubed™ 2D Dimensional Constraint Manager (2D DCM) into the software.

"We chose to integrate the 2D DCM in Vectorworks 2010 because Siemens has what many consider a best-in-class solution for constraint management," explains Dr. Biplab Sarkar, Nemetschek North America's Chief Technology Officer. "Additionally, we've integrated it into 2010 in a way that is non-obtrusive to users and truly intuitive to use."

To top it off, Vectorworks 2010 puts a heavy emphasis on usability improvements and productive tools that make the change to intelligent data-rich design easy. Notable industry-specific functionality for architecture, landscape, and entertainment design includes: planar graphics and working plane improvements; associative hatching; improvements to the import or export of IFC, DWG, and SKP files; new wall sculpting and stair features; hardscape improvements; new parking tools; a new event-planning suite and video screen tools; and rendering options like decals and improved texture mapping.

There are more than 80 new features in version 2010. For a look at all of the new features by product, as well as feature movies, please visit <http://www.vectorworks2010.net>.

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## ***New CimatronE Electrode Capabilities Increase Speed and Reliability***

17 September 2009

Cimatron Limited released details of new enhancements for electrode design and manufacturing available in CimatronE 9.0.

CimatronE offers a host of applicative tools and applications to allow mold makers to work faster and design more sophisticated, advanced molds accurately. CimatronE's solution for electrode design and manufacturing was praised by CIMdata as one of the most advanced available.

In Version 9.0 of CimatronE, electrode makers will find it easier to quickly reproduce identical electrodes as well as accelerate the design of similar electrodes. When two different electrodes have the same design process, CimatronE allows users to copy the design process on the spot and adapt it to the new electrode. An additional new feature simplifies the design of a second electrode that mirrors the first in one simple step.

CimatronE version 9.0 includes a host of enhancements that make last minute changes easier and less disruptive. Any changes made to the mold, which might affect the electrode, are recognized and reported immediately, to allow swift and safe implementation of changes.

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Interference Check Analysis makes sure that there are no collisions between the electrode and the mold itself. This allows electrode makers to use automated design tools to create many electrodes quickly and apply changes with complete confidence.

In version 9.0, the burning conditions for the electrode (spark gap and orbiting), as defined in the electrode application, are automatically transferred to the NC programmer and the new CMM application. This feature allows the NC programmer to ensure the necessary modifications are made before electrode manufacturing and use take place.

CimatronE 9.0 also introduces a CMM application which includes special functions for measuring of electrodes. The CMM application automatically compensates for spark gap and orbiting, as well as the electrode rough offset, when applicable, making sure that the geometry of the electrode was manufactured correctly considering burning conditions.

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## ***Quantapoint PRISM 3D / QuantaCAD 10.0 3D Laser Scan Data Software to Begin Beta Testing***

16 September 2009

Quantapoint (<http://www.quantapoint.com>) provider of laser scanning technology and services that helps companies achieve Zero-Defect Projects™ -- announced that beta testing will begin next week for PRISM 3D / QuantaCAD 10.0. PRISM 3D enables a Digitized Facility™ of 3D laser scan data to be accessed directly as high-definition Laser Models™ (not fuzzy "point clouds") and photo-realistic Laser Images™. QuantaCAD enables the same Digitized Facility™ to be accessed directly within design and review software such as Autodesk AutoCAD, AVEVA PDMS, AVEVA Review, Bentley AutoPlant, Bentley Microstation V8XM, Intergraph PDS, Intergraph SmartPlant Review and more.

If you are interested in beta testing PRISM 3D / QuantaCAD 10.0 with your current Quantapoint Digitized Facility™ or a sample Digitized Facility™ or would like a preview demonstration, visit <http://www.quantapoint.com/qp/contact/> or e-mail [info@quantapoint.com](mailto:info@quantapoint.com) with "Beta Test" as the subject.

The theme for the PRISM 3D / QuantaCAD 10.0 release is "improving design effectiveness and collaboration". Some of the major capabilities include:

- **Multi-user Database:** Share measurements across the team via a multi-user database to ensure consistent information and easier interactions.
- **Measurement Manager:** Store and display multiple measurements on screen to intuitively emphasize desired information.
- **SmartPlant 3D / SmartMarine 3D Integration:** Access Laser Models and Laser Images in SmartPlant and SmartMarine 3D, providing clear information for design.
- **Laser Image Highlighting:** Demolitions or clashes may be highlighted in Laser Images to provide a photo-realistic view of areas requiring modification.

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- **One-Click Pipe Estimator:** Estimate pipe information with a single-click in Laser Images or Laser Models for faster designs.
- **Extruded Pipe Estimator:** Estimate pipe information by selecting the extents to be used in Laser Images or Laser Models for more precise designs.
- **State Manager:** Store and recall laser data (Laser Models, Laser Images and views) to focus on areas of interest and more quickly resume work.
- **Embedded Laser Images:** Use Laser Images directly for reviews to provide a photo-realistic view of the 3D design that is more easily understood across the team.
- **Export "Optimized Point Cloud":** Export Laser Model areas as "Optimized Point Clouds" (more dense and clear than fuzzy "point clouds") in formats compatible with NavisWorks.
- And more...

By using PRISM 3D / QuantaCAD to put reality on the desktop and in design software, clients have typically been able to reduce remodeling time by 85% (by using Laser Models instead of CAD remodeling or as a basis to remodel), decrease design time by 60% (by accessing more complete and clear Laser Models and Laser Images for design) and cut rework from design clashes by 85% (by correcting clashes between the Laser Models and the new CAD design).

## About Laser Models and Laser Images

Laser Models™ are a unique Quantapoint technology that integrates all laser scan data to provide detailed, high-definition 3D solid "models" of a facility. Laser Models are visually clear and include fine details, unlike older "point cloud" technology whose sparse measurements make it difficult to visualize or understand the facility and more likely to miss critical design details. Laser Models provide more complete information for more complete designs.

Quantapoint Laser Images are photo-realistic, panoramic images of laser scans from individual laser scanner locations ("scanner-centric"). Because Laser Images are 360-degree images, they may be panned and zoomed like virtual reality programs to view the surrounding area. Laser Images are ideal for "virtual" site visits due to their high resolution.

## About Quantapoint

Quantapoint provides laser scanning technology and services that help our clients achieve Zero-Defect Projects™. We "digitize" facilities using patented laser scanning technology and then use our Laser Model™ technology to create a high-resolution Digitized Facility™ that can be accessed directly or within various CAD packages. Quantapoint also provides analysis, quality control, documentation and decision support services to eliminate the most common sources of preventable project defects from across the project lifecycle. It is Quantapoint's unique combination of laser scanning technology and professional services that help our clients achieve Zero-Defect Projects™.

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## ***solidThinking, Inc. Introduces solidThinking Version 8.0 to the International Design Community***

14 September 2009

solidThinking, Inc. ([www.solidthinking.com](http://www.solidthinking.com)) has announced the global launch of its version 8.0 software. This release includes a number of user-centric design and productivity enhancements to the company's current 7.6 industrial design tool for advanced 3D modeling and rendering. solidThinking is the first NURBS-based design/styling software program of its kind offered to both PC and Mac users.

“Through our latest release, we offer new ways for industrial designers to enrich and accelerate design inspiration,” said Alex Mazzardo, solidThinking, Inc.'s vice president of product strategy and marketing. “In addition to inviting users to free their minds from technological constraints, solidThinking aims to maximize value and provide cost-saving 3D design solutions.”

“We have seen a number of companies significantly increase and even double the speed of their product development lifecycles using solidThinking,” added Mario Mazzardo, vice president of product strategy and management. “We are eager to help the global industrial design community realize similar benefits and more, thanks to several new productivity boosting features in version 8.0.”

solidThinking 8.0 offers a number of key design elements that encourage exploration and creativity during the design process, while allowing designers and companies to quickly bring concepts and products to market. Some of the enhanced capabilities of version 8.0 include:

- A restyled and more streamlined user interface enabling better workflow.
- New 3D manipulators for translation, scaling and rotation.
- Enhancements to point, curve and surface representation for greater precision and improved ease of use.
- New options for interactive visualization in the modeling views, including wireframe on shaded model and environment maps.
- A wizard to help users choose the ideal modeling units and tolerances based on the size of the model.
- Real-time rendering to further improve interactivity during the review and visualization phases of design.
- Progressive rendering for immediate feedback on the final image with a fast preview of the lighting and materials in the scene; subsequent rendering passes that continue to fill in detail until the final high-quality image is achieved.
- Re-rendering of selected subregions of an existing image.
- A new materials library functionality with faster browsing and previewing of materials, environment maps and scene sets; users can also now set up multiple materials libraries.
- Optimized final gather for increased rendering speed and lighting accuracy.
- Ambient occlusion for greater depth, performance and realism in the photorealistic rendering phase.
- New complex reflectance shaders for generating more lifelike visual elements, including the ability to integrate and create glossy and blurred reflections, frosted glass, car paints, plastic and metallic effects.
- High Dynamic Range Imaging (HDRI) capabilities and the ability to create spherical images that can

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be visualized in the background of perspective views while modeling.

- Availability on Mac and Windows operating systems.

solidThinking 8.0 embodies all of the features that current users utilize, including its NURBS-based surface and solid modeling; Construction Tree™ technology; fast, high-quality photorealistic rendering capabilities; and the ability to exchange data with all leading CAD/CAM/CAE software, helping accelerate the product development cycle and improve collaboration between designers and engineers.

Long-time solidThinking user Pininfarina Extra ([www.pininfarinaextra.com](http://www.pininfarinaextra.com)), a leading Italian design firm – uses the software to design and style many of its products, from electronics to sports equipment, architecture and more.

“Every time I start solidThinking, I access a 3D world that makes product design a dynamic and flexible process disclosing new horizons,” said Piero Pifferi, designer CAS and rendering for Pininfarina Extra. “The results are gratifying for both the designer and the customer.”


To further explore solidThinking 8.0 and download a trial version, check out [www.solidthinking.com](http://www.solidthinking.com).

For more information, news and upcoming events, connect with the solidThinking team on:

Facebook – [www.facebook.com/pages/solidThinking/39474173420](http://www.facebook.com/pages/solidThinking/39474173420)

Twitter – [www.twitter.com/solidThinking](http://www.twitter.com/solidThinking)

YouTube – [www.youtube.com/solidThinking](http://www.youtube.com/solidThinking)

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## ***solidThinking, Inc. Introduces morphogenesis™ Form Generation Technology with the Debut of solidThinking 8.0 Inspired™***

14 September 2009

Global industrial design/styling software company solidThinking, Inc. ([www.solidthinking.com](http://www.solidthinking.com)) announced a breakthrough in digital product development with the release of morphogenesis™, a new technology dedicated to providing industrial designers and architects with the capability to explore virtually countless design options. This morphogenesis form generation technology is included with the launch of solidThinking 8.0 Inspired™, solidThinking’s latest software version for the design community. solidThinking 8.0 Inspired adds unique computational capabilities to the newly released solidThinking 8.0 design tools suite for advanced 3D modeling and rendering available on both Windows and Mac operating systems.

Drawing on the principles of biomimicry, the premiere release of solidThinking 8.0 Inspired mimics processes and physical laws in nature to help designers and architects generate forms and structures in response to environmental conditions, and leverage the results to stimulate their designs.

“Designers and architects have looked to nature for inspiration for some time, but until now they have been limited to visual studies,” said James Dagg, vice president of software development for solidThinking, Inc. “Because the processes and physical laws that influence natural forms are so complex, designers have had to rely on intuition when selecting and adapting biological forms as their sources of inspiration. With the debut of morphogenesis form generation in solidThinking 8.0 Inspired, designers are provided with an environment to replicate biological growth processes in nature where structure develops and takes shape in response to environmental stimuli.”

Using solidThinking 8.0 Inspired, designers can create design space models or import them from other

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systems. After defining environments around the models, designers can run the software's morphogenesis feature to grow efficient shapes in response to these environments and form controls. Results can be used as loosely or literally as users wish while formalizing their designs. The morphogenesis feature ultimately acts as a complementary idea generator and inspiration for form.

"The time is right for a 3D modeling software to take the conceptual design space to the next level," said Alex Mazzardo, vice president of product strategy and marketing for solidThinking, Inc. "solidThinking software has always served as a vehicle for designers to generate, explore and interpret form in their own creative language. solidThinking 8.0 Inspired now brings nature and natural growth processes, the most fundamental sources of design inspiration, to the fingertips of industrial designers and architects – something that has never been done before – allowing users to springboard their ideas in directions they may have never previously considered."

By getting nature to work for them using the technology within solidThinking 8.0 Inspired, designers and architects will be able to discover forms that are aesthetically interesting, unique and often unexpected while being well-adapted to their intended structural function. Forms created in solidThinking 8.0 Inspired are also typically very efficient due to an economized use of material and are less likely to be radically changed by engineers later in the product development process.

In addition, solidThinking 8.0 Inspired provides users NURBS-based surface and solid modeling, ConstructionTree™ technology, fast and high-quality photorealistic real-time rendering capabilities and bi-directional functionality. It presents a highly efficient and intuitive graphical user interface (GUI) and is compatible with CAD/CAM/CAE systems. Using solidThinking 8.0 Inspired, designers can enhance geometric 3D CAD data from virtually any CAD environment and visually explore, apply and style the results of the software's morphogenesis functionality.


solidThinking's NURBS-based 3D conceptual design software inspires innovation in industrial designers through a number of features including an advanced construction tree history that enables users to change their minds anytime during the design process. It also features simultaneous parameter editing and control-point editing functionalities, a streamlined user interface and a fast rendering engine that produces rich photorealistic images with a wide array of color options, finishes and global illumination. solidThinking is available on both Windows and Mac platforms, and is compatible with computer-aided design, manufacturing and engineering (CAD/CAM/CAE) software, encouraging collaboration between industrial designers and engineers during the product development cycle.

To further explore solidThinking 8.0 Inspired and its morphogenesis technology, check out [www.solidthinking.com](http://www.solidthinking.com) or connect with solidThinking on:

Facebook – [www.facebook.com/pages/solidThinking/39474173420](https://www.facebook.com/pages/solidThinking/39474173420)

Twitter – [www.twitter.com/solidThinking](https://www.twitter.com/solidThinking)

YouTube – [www.youtube.com/solidThinking](https://www.youtube.com/solidThinking)

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## ***T-Flex Parametric and TraceParts Partner to Offer Unlimited Access To millions of 3D Native T-Flex Models***

8 September 2009

T-Flex Parametric and TraceParts announced the availability of the native T-Flex format in the TraceParts CAD Parts Library. T-Flex users now have direct online access to the extensive models of the purchased and standard parts from leading manufacturers.

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In addition to the existing advantageous features of the T-Flex CAD version 11, T-Flex users have another direct and immediate benefit from the customer-oriented partnership with TraceParts. It means that designers in machinery, mechanical systems and mold construction will be able to save time that was previously wasted on manufacturer inquiries about CAD models or on re-drawing by themselves the required components for the integration into their own designs. Additionally, the search engine on TraceParts enables a quick and easy search for the desired purchased and standard parts. The data can be loaded in the native T-Flex format directly via <http://www.tracepartsonline.net/ws/t-flex>.

“We are pleased about the partnership with T-Flex”, said Christian Baumgärtner, TraceParts GmbH Managing Director. “T-Flex offers a very good price-performance ratio. This way the parts suppliers available as [TraceParts](#) catalogs can achieve an additional visibility while the T-Flex users profit from the time savings.”

The distributor for Germany, HEPS (<http://www.heps.de>) comments: “This is another step in the direction of optimized efficiency in design. The reliable and easy-to-use interface of TraceParts and the direct import into the native T-Flex format was the right decision for us! It’s a win-win situation for TraceParts, for T-Flex, the suppliers, and above all for our customers. It’s simply a good partnership.”

T-Flex CAD has been improved continuously since 1978. This is a combined 2D and 3D CAD system for history-based, mechanical design (MCAD) in machine, systems and mold construction with an integrated open API.

The 3D editor offers all of the customary functions such as individual and multiple parts elements, assemblies and welds, metals and tubes, solids, rule-based and free-form surfaces, table and database control, associated 2D drafting according to different norms including cutaway and detail views, as well as automatic parts lists.

However, the 2D section is not simply subordinate to the modeler but comprises its own complete CAD system that can be used to fabricate standardized parametric (!) drawings, assembly drawings and even 2D assemblies. Of particular note is the seamless transition to the optional CAM module, the analysis module (FEA) and the Dynamic Analysis module.

## About Top Systems

Top Systems is a leading Russian developer of advanced, integrated CAD/CAM/CAE/PDM solutions for engineers and industrial designers. Top Systems develops and distributes the [T-FLEX](#) product line, which is mainly targeted at the mechanical manufacturing industry, but also at other industries, in which design and manufacturing are tightly connected (wood, sheet metal, glass manufacturing industries, etc...). Top Systems provides software solutions on various languages worldwide directly as well as through distribution partners.

## About HEPS

[HEPS](#) from Mülheim on the Ruhr (Germany) has more than 17 years of experience in the area of CAD/CAM and DNC. In addition to the services in this area, the product range includes exclusively practice-oriented and -tested products. This also includes the CAD application T-Flex.

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## ***Tech Soft 3D and Lattice Technology Announce the First Applications Shipped Using the Adobe® 3D OEM Platform***

16 September 2009

Lattice Technology continues to show leadership in the manufacturing design industry by shipping Lattice3D Dataway, an application that incorporates the Adobe 3D OEM platform with XVL®. Two products, XVL Studio, a high-quality editing and authoring tool for 3D digital mockup and technical documentation, and Lattice3D Reporter, which embeds ultra-lightweight XVL versions of 3D CAD models into Microsoft Excel files, are now able to import and export 3D files into the industry standard Adobe 3D PDF format.

Sold exclusively through Tech Soft 3D ([TS3D](#)), an Adobe Systems Incorporated Gold Solution Partner, the powerful Adobe 3D OEM platform provides independent software vendors (ISVs) with a complete set of 3D CAD data importers combined with a full license of Adobe® Acrobat® 9 Pro Extended. ISVs can integrate the Adobe 3D OEM platform to their software, providing their customers with the ability to publish 3D data directly to the Portable Document Format (PDF) with full control of the view, comment, measurement, security, and collaboration features within the free Adobe® Reader®.

[Lattice Technology](#) General Manager Bill Barnes commented, "The strength of the Adobe OEM technology coupled with the deep expertise of the Tech Soft 3D team allowed us to quickly add this functionality to our product line and offer our clients the flexibility they require when communicating with their production and marketing chains. Manufacturers look to us to be able to transform 3D design data into 3D manufacturing data on even the largest of models -- and with the Adobe 3D OEM platform, we are able to provide unmatched performance with confidence."

"It's important in today's manufacturing market that you not only provide 3D visualization, but a feature-rich experience to the end user," added Ron Fritz, CEO of TS3D. "Engineering and business development teams need access to 3D files in a format that they can be sure their downstream recipients can view, in a format that is lightweight enough that they can be sent by e-mail. The combined power of the Lattice products and the Adobe OEM platform provides customers with a groundbreaking combination of ease of use and speed. This ultimately translates to faster and more accurate product development, as well as more advanced sales and marketing capabilities."

In addition to the popular PDF format, the Product Representation Compact (PRC) format, used in the Adobe 3D OEM platform to store, load and display 3D data with precise geometry and outstanding compression, is on its way to becoming the standard 3D file format under the International Organization for Standardization (ISO) -- <http://www.iso.org/iso/home.htm>. This decision was supported by Adobe System Inc.'s strong commitment to open standards and the capabilities of the PRC format, which make it a logical choice in assisting companies comply with regulatory mandates.

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## ***The MathWorks Announces Release 2009b of the MATLAB and Simulink Product Families***

14 September 2009

[The MathWorks](#) announced [Release 2009b](#) (R2009b) of its [MATLAB](#) and [Simulink](#) product families. R2009b includes features for faster performance and enhanced handling of large data sets, builds on component-based modeling features in Simulink, and updates 83 other products, including [PolySpace](#) code verification products.

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Key R2009b highlights for the MATLAB product family include extended support for multicore and multiprocessor systems as well as improvements for handling large data sets. MATLAB and [Image Processing Toolbox](#) now offer more multithreaded implementations of functions, and [Statistics Toolbox](#) adds parallel computing support for several functions. For users with large data sets, MATLAB now offers the ability to perform FFTs on data sets larger than 2 GB, Image Processing Toolbox adds a function to support processing of arbitrarily large TIFF images, and [Parallel Computing Toolbox](#) includes a new interface for working with large data sets that are distributed across a cluster.

Other MATLAB highlights in R2009b include:

- [Mapping Toolbox](#) enables the search and retrieval of geographic data sets from Web Map Service (WMS) servers (for example, NASA JPL OnEarth and Microsoft TerraServer).
- Users can now access the MATLAB Central File Exchange, including thousands of user-contributed files, directly from the MATLAB environment.

For [Model-Based Design](#), R2009b enables Simulink users to capture design variants in models and switch between model-wide configurations to better manage design alternatives and reuse. Engineers can now simulate and generate embeddable code from MATLAB programs and Simulink models containing arrays that dynamically change size over time, which are useful for applications such as object detection and motion tracking.

Other Simulink highlights in R2009b include:

- [Simulink Control Design](#) – Automated tuning and turnkey PID controller blocks in Simulink for faster design and verification of these frequently used controllers.
- [Real-Time Workshop Embedded Coder](#) – More efficient code generation for signal processing applications, with reduced data copies and optimized matrix operations.
- [Simulink Verification and Validation](#) – Model Advisor Configuration Editor to manage and deploy a consistent set of checks and rules for modeling standards across an organization.
- [Simulink Design Verifier](#) - New API that allows Embedded MATLAB to be used as a property specification language.

The new release is available immediately and is being provided to users with current subscriptions to MathWorks Software Maintenance Service. Additional information on R2009b product updates is available at [www.mathworks.com/R2009b](http://www.mathworks.com/R2009b).

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