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CIMdata News

Intervista a Ken Amann - Direttore Ricerche in CIMdata, Global Leader in PLM Consulting [Interview with Ken Amann, Director of Research CIMdata]

20 October 2009

In an interview published by [AGI Energia](#) October 20, 2009, Ken Amann, CIMdata's Director of Research addresses the following: PLM software and services currently being used by the Energy industry, the quantifiable impact of PLM on productivity, the five leading suppliers of PLM and what PLM solutions offer room for improvement.

The entire interview is available at <http://www.agienergia.it/Intervista.aspx?idd=96&id=69&ante=0>

Editor's note: Although the article is in Italian it can be translated easily using free Google translation tools.

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Company News

Autodesk Names Applied Technology Group as Reseller of the Quarter for Excellence in Customer Service

19 October 2009

Autodesk, Inc. (named Applied Technology Group (ATG) as Reseller of the Quarter for the Americas for the second quarter of fiscal year 2010. Autodesk selected ATG from more than 100 resellers throughout the Americas.

"Applied Technology Group continues to be a key Autodesk channel partner, as well as a committed partner to our joint customers," said Steven Blum, senior vice president, Americas sales, Autodesk.

"Applied Technology Group exceeded sales expectations with a 35 percent increase in year over year growth, which is extremely impressive in today's economic climate."

The criteria used to designate Autodesk's Reseller of the Quarter is based on quality of customer service and support, overall sales, vertical sales and overall growth. Applied Technology Group's dedication to educating customers on solutions and technologies, such as building information modeling (BIM) for the building and design industry, have not only helped Applied Technology Group grow their business, but have in turn helped their customers become more productive and efficient.

"By providing our customers Autodesk's value added tools, we are enabling them to better automate their design processes, gather more information about their designs prior to construction, and better relay design intent through virtualization," said Jeff Jenkins, chief operating officer at Applied Technology Group. "We want to deliver the best products and professional services to our customers so we are especially honored to be recognized for our commitment."

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Awarded the Platinum Club award, an elite group of resellers recognized for top sales performance and outstanding customer service, from Autodesk for three consecutive years, Applied Technology Group has a history of providing outstanding customer service. They work closely with companies such as TME Inc., a full service mechanical, electrical, structural, and energy engineering firm, to provide the training, support and service they need to develop innovative and cost effective engineering solutions in the core areas of healthcare, higher education and energy conservation projects.

"We have had a long history with ATG and they have been an invaluable partner for TME as we have moved from a 2D CAD environment to a model based design firm," said Mark Mergenschroder, BIM Development Coordinator of TME.

McCown Gordon Construction has also experienced the benefits of working with a value-added reseller like ATG that serves as a trusted advisor to their customers.

"Since we made ATG our technology partner back in May, we've been shown what support really means. While they're always available when problems arise, ATG is proactive about keeping our team up-to-date on the latest tools and software changes. They also have a good sense of where AEC technology is heading, and help us to direct our technology initiatives to align with it," said Brian Arnold, LEED AP of McCown Gordon Construction

About Applied Technology Group

With offices that cover Arkansas, Kansas Louisiana, Mississippi, Missouri, Nebraska, Oklahoma, Texas, Tennessee and parts of Alabama and Florida, Applied Technology Group has an extensive team of technical experts serving the Southern region of the U.S. Applied Technology Group employs registered architects, professional engineers, GIS professionals and mechanical engineers who serve companies in the areas of building, construction, infrastructure, utilities and telecommunications and general design with Autodesk software and implementation services. Applied Technology Group is also an Autodesk Authorized Training Center (ATC).

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COADE Launches Facebook and Twitter Accounts for Communication with Its Plant Design and Engineering Analysis Customers, Dealers and Friends

20 October 2009

COADE announced the launch of the COADE Facebook and COADE Twitter accounts, further expanding the company's social media channels for communicating with its global network of dealers and with users of the company's integrated software solutions for plant design and engineering analysis. These products include the COADE CADWorx Plant Design Suite, CAESAR II for pipe stress analysis, PV Elite for vessel and exchanger design and analysis and TANK for designing and analyzing oil storage tanks.

The COADE Facebook page includes current information and photos from the company's recently concluded COADE User Conference, held September 28-30 in Houston. Also posted are details on upcoming training classes and webinars, plus photos and messages from friends of COADE. COADE's Twitter account tracked the conference with Tweets on the activities during the September event.

The COADE Facebook account can be accessed at <http://www.facebook.com/pages/COADE-Inc/62442898363>. The COADE Twitter link is <http://twitter.com/coadeinc>. Tweets and Facebook activity can be accessed via the company's COADE Insider Blog <http://coade.typepad.com/>.

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Delcam Joins Singapore Medical Consortium

20 October 2009

Delcam's Singapore-based subsidiary, Delcam South-East Asia, has become a founder member of the MedTech Manufacturing Consortium, which has been set up to accelerate growth of the medical technology industry in the country. The consortium will offer consultancy services, networking services and a graduate diploma programme.

It has been set up by Singapore Institute of Manufacturing Technology and the Workforce Development Agency, which have injected S\$10 million into technology and manpower development for the sector over the next five years. Other partners include IE Singapore, SPRING Singapore, Singapore Precision Engineering and Tooling Association, Biomedical Engineering Society (Singapore), and the Agency for Science, Technology & Research.

According to the Economic Development Board, the medical technology industry in Singapore doubled its manufacturing output from S\$1.5 billion in 2000 to about S\$3 billion in 2008. By 2015, the sector aims to reach S\$5 billion.

This high level of growth is typical of the rapid expansion in the global healthcare market. It has prompted Delcam to establish a dedicated Healthcare Division to provide a greater focus on this increasingly important part of its business. The new Division will help companies across the medical, dental and associated industries to apply Delcam's expertise and experience in taking advantage of the latest design and manufacturing techniques.

Delcam is, of course, already active in many areas of the healthcare business. Its design, reverse engineering, machining and inspection software are used in a wide range of applications from the production of prostheses, through to the manufacture of surgical instruments and all types of medical packaging. This is especially true for the PartMaker machining system for turn-mill equipment and Swiss-type lathes. These machines are used extensively for the manufacture of medical and dental components, to the extent that around 70% of PartMaker sales already come from the healthcare industry.

In addition, [Delcam](#) has introduced several specific products for the healthcare market over the last two years. These include the DentCAD and DentMILL programs for the design and manufacture of dental restorations and the OrthoModel and OrthoMill software for the development of orthotics. The company also offers special versions of its CRISPIN range of footwear design and manufacturing software for the production of orthopaedic footwear.

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IMAGINiT Technologies Expands Canadian Presence with New Office in Winnipeg, Manitoba

21 October 2009

RAND Worldwide® announced that its IMAGINiT Technologies division has opened a new field office in Winnipeg, Manitoba. With the opening of the Winnipeg location, IMAGINiT Canada now has a significant sales presence in each of the English speaking provinces of Canada.

“As Autodesk's 2009 Reseller of the Year, IMAGINiT Canada is clearly committed to our Canadian

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customers. In order to provide our customers in Manitoba the highest level of service, opening a local office was a matter of paramount importance,” states Joe Oswald, vice president, IMAGINiT Canada. “Now we are able to directly engage with our clients and deliver our software solutions, consulting and training services with a strong, experienced local staff while leveraging our coast-to-coast national team,” adds Oswald.

With the opening of the Winnipeg office, IMAGINiT Technologies plans to further expand its customer base across all Autodesk recognized verticals including Mechanical, Civil, AEC, and Geospatial. In addition to selling the vertical product solutions, they will also sell and support the platform products such as AutoCAD. To facilitate the training of customers on how to drive efficiencies with these industry leading solutions, the company will also open a training facility at this location.

The new [IMAGINiT](#) Winnipeg office is located at: 530 Century Street, Unit 222, Winnipeg, MB R3H 0Y4.

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KOMPAS-3D Modelling Contest is Launched

15 October 2009

ASCON Group announced its VIII 3D-Modelling Contest for users of KOMPAS-3D. Designers, engineers and all 3D CAD users are welcome to take part in the competition and share results of their work using Professional, as well as the free LT version of KOMPAS-3D.

The Modelling Contest is held yearly among the enterprises and individuals using KOMPAS-3D. Since the contest was launched more than 600 CAD professionals received awards and many of them took part in the contest several times. The results from previous years are posted on the ASCON Corporate web site in Design Gallery at ascon.net/showcase/gallery/, where all the projects screen shots of Modelling Contest 2010 will be also announced.

Contest nominations

The best projects made in KOMPAS-3D in two branches — “Mechanical Engineering” and “Industrial and civil engineering”;

The best professional projects made in KOMPAS-3D (up to 200 parts, from 201 to 999 parts, from 1000 to 4999 parts, over 5000 parts);

The best branch projects made in KOMPAS-3D and add-ons;

The best project made in LT version of KOMPAS-3D. KOMPAS-3D LT is available for FREE download at ascon.net/download/kompas/.

To participate in the contest please fill out the [Application Form](#) and send it together with KOMPAS-3D project files or screen shots to contact@ascon.net until April 1st 2010. All companies and individuals, who use KOMPAS-3D V9, V10 and V11, as well as KOMPAS-3D LT are allowed to take part in the competition. The results and awards to be announced in May 2010. Winners of VIII KOMPAS-3D Modelling Contest will be awarded with valuable prizes from ASCON and Sponsors of the event.

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Lattice Technology Releases Chapters 11 and 12 of its New Lean Manufacturing Book, Available

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Free of Charge

20 October 2009

[Lattice Technology](#) released Chapters 11 & 12 of the new book, “Improving Lean Manufacturing Through 3D Data” by Dr. Hiroshi Toriya.

First published in Japan in late 2008, this book is targeted at manufacturing executives and educators trying to work out new strategies to build greater productivity and efficiencies into existing manufacturing processes. The book covers a wide range of case studies from leading Japanese manufacturers, along with recent survey data, to build understanding of how manufacturing can be enhanced using 3D data in downstream processes. It also explains the evolution of 3D and IT in the industry, and shows how it can be leveraged into other areas of manufacturing that are still using traditional processes.

Chapter 11 shows how Digital Soken, a division of Digital General Printing in Japan, delivers services and consulting to manufacturers who want to cut costs and streamline global operations through 3D technical documentation. Digital Soken delivers services such as creating illustrations directly from customers’ 3D data, delivering 3D assembly instructions to a manufacturer’s global operations long before a product is launched, through to advising manufacturers on how to improve their 3D design data for downstream use. The company believes that this kind of documentation is the media of the very near future for manufacturers.

JAXA, the Japanese Space Agency, is featured in Chapter 12 as a shining example of how XVL delivers critical information to dispersed groups. Japan’s Kibo experiment platform is now operational on the International Space Station, and will provide the base for zero-gravity experiments over the next 10 years. The experiment platform has more than 2 million parts, all designed in 3D CAD. Having transferred the CAD data to XVL, and implemented the data in a 3D Search database, operations staff and engineers on the ground and at many global locations can identify specific faulty parts, see them in 3D, view operational data, and assist astronauts with repairs, while continuing to add critical maintenance and operations information into the database.

This latest book is available free and exclusively from Lattice Technology and 2 chapters per month will be released to registered recipients. The book delivers 13 Chapters which include case studies on major manufacturers including Toyota, Brother Industries, Niigata Power Systems, Alpine Precision Inc., and more.

To find out more, view selected pages and to register to download the book, visit [Lattice Technology’s Book Resources](#) page.

About Dr. Toriya

Dr. Hiroshi Toriya is the president and CEO of Lattice Technology, which was founded in 1997 with a mission to deliver very lightweight 3D viewing technology. His career started after he graduated from Tokyo University in 1983 with a bachelor’s degree in science, and began development work at Ricoh building a solid modeling kernel as part of Prof. Chiyokura’s team. Dr. Toriya then built the team at Ricoh that supported, sold and further developed the resulting DESIGNBASE kernel. In 1989 Dr. Toriya gained his PhD on the strength of his thesis “A study of an Interactive Solid Modeler Containing Free-form Surfaces”. He was appointed president and CEO of Lattice Technology in 1999.

Dr. Toriya has previously published 2 books, both in Japanese and English, titled "3D CAD principles and applications", (Springer-Verlag) and "3D Manufacturing Innovation", (Springer-Verlag). This latest

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book, “Improving Lean Manufacturing Through 3D Data” is also available in hard cover, in Japanese, from JIPM Solutions.

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Tata Technologies Announces ‘Grand Opening’ of ‘store.tatatechnologies.com’

20 October 2009

Tata Technologies announced the “grand opening” of its online store, <http://store.tatatechnologies.com>. The online store offers a range of the company’s products and services in an interactive environment that allows visitors to experience demonstrations before they buy.

“The launch of our online store expands our ability to meet clients’ needs,” said Craig Radomski, Tata Technologies Vice President Product Sales - NA. “Visitors will find the same customer focus at store.tatatechnologies.com that they have come to expect in person.”

“This also will give our clients more flexibility and easy access to our line of offerings,” added Craig Mills, Tata Technologies Vice President Product Sales – EU.

“The online store provides access for our clients worldwide,” added Wishwas Julka, Tata Technologies Vice President Product Sales – AP, “store.tatatechnologies.com reinforces the global nature of how we do business.”

Visitors to store.tatatechnologies.com may browse and find product updates, and learn more through the interactive tools and demonstrations on the site that let them see their purchase in action before they buy. Products currently available include:

- i CHECK IT® - One of the industry’s leading CAD data quality assurance tools.
- i COMPARE IT™ - The best tool for CMM model validation.
- i GET IT® - The engineering world’s leading knowledge management system, with more than 100,000 online training documents.

In addition to these proprietary products, store.tatatechnologies.com also offers the company’s support services through i SUPPORT IT™ - a full range of scalable support options that include Web-enabled and on-site support; as well as access to the full i GET IT document library.

PTC Mathcad® available

Also available through store.tatatechnologies.com, is Mathcad from PTC. Engineers use Mathcad to perform, document and share calculation and design work. The Mathcad visual format and scratchpad interface integrate live, standard mathematical notation, text, and graphs in a single worksheet – making Mathcad ideal for knowledge capture, calculation reuse, and engineering collaboration.

Tata Technologies also will be adding new commercially available engineering productivity applications – both free and fee-based – in the coming months. Visitors are urged to check <http://store.tatatechnologies.com> regularly for updates. Purchases may be made using American Express, Discover, MasterCard or Visa.

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TerraXML Awarded PTC's Enterprise Partner of the Year

15 October 2009

TerraXML, creator of TerraMRO and TerraPLM for Healthcare, announced that it has received the first ever PTC Enterprise Partner of Year. This award follows two straight years of winning PTC's Strategic Industries Global Partner of the Year in 2007 and 2008. The award was presented on Tuesday, October 13th, at the PTC Channels Partners Immersion FY 2010 Kickoff in Newton, Massachusetts.

The award symbolizes TerraXML's commitment to PTC and its technology. TerraMRO is built on the PTC Windchill and Arbortext platform and consists of 6 modules including Job Cards, Engineering Orders and TerraView. This software package has allowed PTC to enter into the growing MRO market in both civilian and defense marketplaces.

[TerraXML](#) also built TerraPLM on the PTC platform, a solution that allows health insurance companies to leverage benefits of product lifecycle management previously limited to the manufacturing world. This solution enables healthcare companies to reduce product development times from months to weeks while still being compliant with state and federal regulations.

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3 HTi Signs Business Partnership Agreement with Solido

20 October 2009

3 HTi, LLC signed a business agreement with Solido as a key source in the sales and marketing of the SD300 Pro 3D printer in North America. 3 HTi's strategic position offers growth for the 3D printer in the PLM marketplace. 3 HTi's business extends beyond the eastern seaboard and offers an important role in getting the word out for this 3D printer.

This product makes in-house 3D model building available and affordable to markets where ownership was previously cost prohibitive," says Eldad Sayada, Senior VP of Solido. "We are providing a unique opportunity to the mechanical engineers, in the very early steps of the design that allows designers and engineers to evaluate products and catch design flaws much earlier in the product development process and well within their budget", Sayada concluded.

About 3 HTi

3 HTi is a complete sales and service firm that provides a holistic solution in Product Life Cycle Management (PLM). 3 HTi offers a full line of services in the PLM market through software sales and maintenance, implementation services, certified training services, contract services, and personnel placement

3 HTi is an authorized PTC Reseller. 3 HTi carries a full line of PTC Software Solutions including Pro/ENGINEER, Arbortext, CoCreate, Mathcad, and Windchill. 3 HTi is a Platinum reseller in PTC's Channel Advantage Program. In addition 3 HTi is the exclusive reseller of NCSIMUL in the United States. [3 HTi](#) now adds the SD300 Pro to its portfolio of PLM Management Solutions.

Solido is an industry leader in the development of 3D desktop model building technologies that utilize rigid plastic materials without requiring post-building cure. Solido has developed the first 3D desktop printer that is cost-effective for all CAD/Cam professionals.

For further information on Solido please visit www.solido3d.com

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Two Indian SolidWorks® Resellers Add WorkNC to Their Portfolio

19 October 2009

Sescoi has appointed [two new resellers in India for WorkNC](#). Both Tech Savvy Engineers, based in New Delhi, and 3DWorks Design Solutions in Ludhiana are also SolidWorks® resellers. The new partnership with SESCOI fits well with their existing business model and will enable them to offer their customers the quality and 'one button CAM' benefits that WorkNC brings to machining operations.

Expansion of the Indian manufacturing industry is being matched by the increased coverage and support supplied by SESCOI which already has offices in Pune, Bangalore, North Delhi, Nashik and Hyderabad. The two new resellers will further increase the availability of local sales and support in some of the most industrialized parts of the country.

To cement the new relationship, SESCOI presented WorkNC at a series of three SolidWorks® Innovation days held in Gurgaon, Noida and Ludhiana to launch SolidWorks® 2010, and it is anticipating that collaboration in the SolidWorks® marketplace will result in an even faster growth in revenues.

WorkNC is already used by many prestigious companies in India including Bharat Forge, the second largest forging company in the world and part of the \$1.2 billion Kalyani Group, and Sermo ARRK India, part of the €1.8 billion ARRK Group. These companies selected WorkNC for its ease of use and its automatic high speed machining strategies, which enabled them to machine more of the complex parts they produce in one operation resulting in significant cost savings.

Previous seminars held by SESCOI have demonstrated the increasing interest in 5-axis machining techniques in India. WorkNC's Auto 5 module automatically converts 3-axis toolpaths into collision free 5-axis paths, bringing this complex task well within the capabilities of the majority of companies. Despite being easy to operate, Auto 5 has a considerable amount of flexibility. All WorkNC's standard 3-axis roughing and finishing toolpaths can be used and are coupled with nine 5-axis conversion methods to ensure that the ideal cutterpath is generated.

By working with the SolidWorks® channel in India, and with its reliable WorkNC Solidworks® translator, SESCOI will enable even more companies to maximize profitability and productivity by combining the power of SolidWorks® with the sophisticated CNC programming possible in WorkNC.

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Events News

Cadence Design Systems to Host Mixed-Signal Design Summit

22 October 2009

What:

Mixed-Signal IC Design Summit

When:

Oct. 27, 2009, 8:45 a.m. to 6 p.m.

Where:

Cadence Design Systems, Inc., 2655 Seely Ave., San Jose, Calif. 95134

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Building 10 R&D Auditorium

Press Registration:

Contact Niki Tran at nikitran@cadence.com or (408) 428-5159

Engineers and executives from Cadence Design Systems, Inc. and leading semiconductor firms are meeting in an open forum to discuss the challenges of mixed-signal design methodologies.

Attendees are invited to hear a keynote by Paul Emerson of Texas Instruments, listen to fellow designers discuss methodologies they followed to tackle mixed-signal design obstacles, watch live technical product demonstrations, and ask questions in an informal setting.

Agenda*:

- | | |
|--------------------------------|--|
| 8:45 am | Registration and breakfast |
| 9:25 am | Introduction: Steve Carlson, Cadence Design Systems, Inc. |
| 9:30 am | Welcome Address: John Bruggeman, Cadence Design Systems, Inc. |
| 9:45 am | Keynote: Paul Emerson, Texas Instruments |
| 10:15 am
STMicroelectronics | Sigma Delta Converter Design Using Behavioral Modeling: Yuval Shay, |
| 10:45 am | Break |
| 11:00 am
Freescale | Verification of ESD Protection at Signal Domain Crossings: Michael Khazhinsky, |
| 11:30 am
environment | Solution Demonstration: Verifying mixed-signal designs using analog design |
| 12:30 pm | Lunch with Cadence R&D team |
| 1:15 pm
Systems, Inc. | Cadence Mixed-Signal Solution Overview: Mladen Nizic, Cadence Design |
| 1:45 pm | AMS Verification for RF Design: Jess Chen, QUALCOMM |
| 2:15 pm
Abhishek, Freescale | Full Chip Spice Simulation Methodology for Zero Defect Silicon: Kumar |
| 2:45 pm | Break |
| 3:00 pm
Group Company) | Knowing Your Design is Right: Robert Milkovits, Jazz Semiconductor (a Tower |
| 3:30 pm | Mixed-Signal Verification: Prashanth Aprameyan, Micron |
| 4:00 pm | Solution Demonstration: AMS IP design and SoC integration using Virtuoso-
Encounter Mixed-Signal Solution |
| 5:00 pm | Q&A Panel Moderated by Richard Goering, Cadence Design Systems, Inc. |
| 5:30 pm | Closing Statements, Raffle Giveaway, Networking Event |

***Subject to change**

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Those interested in attending are invited to register for the Summit at http://www.secure-register.net/cadence/ms_summit

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Cimatron to Showcase its New Machine Simulator at CMTS, Toronto

19 October 2009

Cimatron Limited announced that it will exhibit the latest version of CimatronE at the Canadian Manufacturing Technology Show.

At the show, [Cimatron](#) will display its new machine simulator and emphasize enhancements to NC programming capabilities, many of which cater to the specific machining requirements of toolmakers. These enhancements are included in the recently released CimatronE version 9.0, which contains a wide range of improved functions and new capabilities, upgrading the manufacturing process from quoting to delivery.

CimatronE 9.0 provides a new machine simulator, using a more advanced method to accurately and reliably verify the machining process. The simulator displays material removal within the machine environment for both 3-Axis and 5-Axis machines.

CimatronE 9.0 will also provide NC programmers with increased machining efficiency, better surface quality and improved performance. Version 9.0 also includes a Product Manufacturing Information (PMI) display.

Machining efficiency is increased at every level. Roughing is now more efficient because of greater awareness of remaining stock. This eliminates air cutting, ensures greater safety in the machining process and extends machine life and tool life. Multi-axis roughing is now more effective due to automatic transformation of the stock, saving time during roughing and at later stages. The multi-Axis Automated Drill now includes full stock recognition to speed up the drilling process and save time.

New programming functions facilitate a higher surface quality. Finishing functions include features that increase accuracy and smoothness. Among these is a new "Cleanup - All Along" strategy which enables users to machine the area left by the previous cutter with long, uninterrupted tool passes. The new version also includes enhancements to maintain the sharpness of external and embedded edges.

Version 9.0 of CimatronE provides dedicated functions needed to accomplish better manufacturing in a broader range of industries, including the medical and dental industries, as well as the aerospace and other high precision industries. Enhancements include further adaption of the interface to work with STL free form files and improvements in high speed machining and micro milling capabilities. Enhancements for 5-Axis tilting include new machining strategies to significantly speed up the calculation process.

The new version of CimatronE offers higher performance. Calculation times have been reduced in most areas and performance of the software in general has improved, with full support of dual core and quad core processors.

Version 9.0 allows manufacturers to store Product Manufacturing Information (PMI); annotations and notes are passed on through the different stages of the project from design to the shop floor. Product Manufacturing Information is also transferable to and from other standard CAD systems.

In addition to NC programming related updates, CimatronE 9.0 also offers enhancements including a

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new quoting application for die makers, new automation for tool design and electrode design as well as enhancements for 5-Axis manufacturing of discrete parts.

The CimatronE solutions will be presented at booth 25005, October 19-22, 2009 at the Direct Energy Center, Toronto, Ontario. For information and registration, visit <http://www.sme.org/cmts>.

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COADE User Conference Concludes with Record 24 Countries Represented Attending 60 Classes on Integrated 3D Plant Design and Engineering Analysis Using CADWorx, CAESAR II and PV Elite

16 October 2009

The 2009 COADE User Conference held September 28-30 in Houston saw a record 24 countries, 120 companies and 22 states represented among attendees who participated in 60 classes on the use and application of COADE software products for plant design and engineering analysis, including COADE CADWorx, CAESAR II, PV Elite and TANK. Attendees represented such names as Babcock & Wilcox, BP, Chevron, El Paso, ExxonMobil, Hess, Mustang, Proctor & Gamble, Saudi Aramco, Siemens and Williams as well as numerous other facility owners and engineering firms plus a number of media representatives.

Monday's keynote by Thomas J. Van Laan, P.E., the president of COADE, featured a live demonstration of the integration and collaboration between COADE's plant design and engineering solutions in which a plant facility was designed, analyzed, reviewed and signed off on within 20 minutes. The keynote was followed by Mike Rayburn, an award-winner speaker and entertainer known as the World's Funniest Guitar Virtuoso, who challenged our self-imposed limitations with the question "Why not?" as he blended music and humor with insight.

The 2010 COADE User Conference is planned for October, 2010, with the location and dates to be announced in December. For information on COADE and its products, visit <http://www.coade.com>. Conference details are at <http://www.coadeuserconference.com/2009/index/html>.

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Dassault Systemes to Participate at BEX Asia 2009

21 October 2009

[Dassault Systemes](#) is showcasing its latest solutions for the Architecture, Engineering and Construction (AEC) industry at [BEX Asia](#), a building exhibition for Southeast Asia held at Suntec Exhibition Centre from October 28-30, featuring the latest in building materials, design and architecture, with a focus on eco-friendly and sustainable environments.

BEX Asia is entering its second year. 5000 visitors and 130 exhibitors are expected to participate at the show this year. Last year, more than 4,000 visitors attended BEX Asia to see the 110 exhibitors from 16 different countries.

Dassault Systemes will showcase its latest PLM solutions for the Architecture, Engineering and Construction (AEC) industry in conjunction with its partner, Gehry Technologies, an offshoot of Gehry Partners, the firm behind famed architect Frank Gehry. The solutions are aimed to help firms generate a single digital model that can be accessed and modified by all teams participating in the same building project in order to increase engineering innovation and streamline design-to-construction process. The

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combined strength of Dassault Systemes PLM solutions and Gehry Technologies expertise is responsible for the design of the Beijing Bird's Nest Stadium.

Leveraging Dassault Systemes' 3D PLM solutions, visitors to the booth will have the opportunity to experience the 3D ultra realistic visualization of construction projects wearing stereoscopic goggles.

Dassault Systemes will also be holding two presentations in the exhibition hall's "FOCUS @ BEX" booth on the 29th and 30th of October. During these presentations, Dassault Systemes will demonstrate how PLM solutions can help AEC firms advance the pursuit of innovation by integrating business process management with cutting-edge tools for design, engineering and construction planning.

"We are very excited to participate at this year's BEX Asia. Dassault Systemes has been dedicated to helping companies in the AEC industry realize 3D digital design and innovation collaboration through our PLM solutions. In the meantime, as an increasing number of countries around Asia have introduced green building standards, we are also aimed to support companies comply with the standards and contribute to a sustainable environment with our green building technologies," said Gilles Cruanes, Vice President, PLM Sales & Distribution, South Asia.

For more information please visit booth number C14 at Suntec Exhibition Centre from October 28 to 30.

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Delcam to Launch PowerSHAPE CAD with Parasolid at Euromold

22 October 2009

Delcam will launch the first version of its PowerSHAPE CAD system to incorporate the Parasolid kernel at the Euromold exhibition to be held in Frankfurt from 2nd to 5th December. This new version will be the most significant development in Delcam's design software since it was first released some ten years ago. It will give significant benefits to companies that use PowerSHAPE as a stand-alone design system and to those that use the software as part of Delcam's complete product development suite.

The incorporation of the Parasolid kernel will reinforce PowerSHAPE's solid modelling capabilities, alongside its well-established surface modelling operations. The combination of the two technologies will provide a complete solution for designers that undertake conceptual design with PowerSHAPE and to toolmakers that use the software for data translation and tooling design.

[Delcam](#) has been developing its surface modelling technology for more than 30 years. This long history has given PowerSHAPE ability to design and edit the most complex shapes. The addition of the Parasolid kernel will give equal strength in the development of history-based geometric models.

The combination of the two technologies is especially important for designers of plastic products and housings. These frequently need surface modelling to create an attractive external shape but require solid modelling to generate the more geometric internal features, such as reinforcing ribs and bosses for fixing.

A similar mix of technology is needed for tooling design. Surface modelling is essential to undertake detailed operations like creating and adjusting split lines. History-based solid modelling can even be a disadvantage at this stage because it can become difficult to change a single fillet radius or draft angle without affecting other parts of the model.

Solid modelling really comes into its own when the designer moves from creating the core and cavity

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into building the rest of the tool. Most of these other components are made up from simpler prismatic shapes and the Parasolid kernel is the acknowledged leader for this type of design work. Delcam's implementation of this technology within PowerSHAPE will give both faster creation of the initial design and much quicker regeneration of the complete design following any modifications.

The addition of Parasolid will also enhance Delcam's Power Features technology. Components that contain Power Features react automatically as they are placed within an assembly, adding all the necessary fit-features to the connecting components. As each part is added, the tolerances between the various components are also defined automatically. This automatic creation of relationships makes the development of the overall design much quicker than other CAD systems and also makes errors in the design process far less likely.

The new release of PowerSHAPE will also provide an extremely flexible method for translating data from other software into the Parasolid format that can be read directly into programs including SolidWorks, Solid Edge and Siemens NX. The ability to import poor-quality data has been one of PowerSHAPE's main strengths for many years and one of the key reasons why the software has become so popular with toolmakers and other subcontractors. In the new version, users will be able to apply all of PowerSHAPE's tools to correct common problems with files, including inaccurate trimming, poorly-matched surface edges, missing fillets and duplicated surfaces. Then, the repaired file can be output as a fault-free Parasolid file.

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Delcam to Show FeatureCAM 2010 on Global Webexes

21 October 2009

[Delcam](#), its subsidiaries and its resellers will demonstrate the new functionality in FeatureCAM 2010 in a global series of webex events next week. The full list of dates and times of the presentations, which will be hosted in America, Europe, Africa and Asia, is on <http://www.featurecam.com/globalpreview>.

FeatureCAM 2010 includes enhancements across the full range of functionality, from 2D drilling and wire EDM, to five-axis milling and mill-turn operations, while retaining its key benefits as a fast and easy programming system.

Most important of these developments is support for multi-threading when generating 3D toolpaths. This allows the calculations to be spread across multiple cores, resulting in an average time saving of 23% on dual-core PCs.

Drill/Mill is another key enhancement in FeatureCAM 2010, combining drilling and milling functionality for more efficient hole creation. With built-in intelligence, Drill/Mill offers automatic selection of tooling and method based on the current tool crib. This enables users to reduce set-up time, programming time, cycle time and tooling requirements.

PowerMILL technologies, including point distribution, tool-axis smoothing and spiral finishing options, have been introduced into FeatureCAM 2010. The benefits include faster machining, smoother machine motion and improved surface finish.

Machining simulation has also been made faster and more accurate with the addition of a new dual-view option, which allows a part to be viewed from two different angles simultaneously.

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Delcam to Show New CAM Range at Metalex in Thailand

19 October 2009

Delcam will show new products across its complete range of CAM software at the Metalex exhibition to be held in Bangkok, Thailand, from 19th to 22nd November. The family of Delcam machining software comprises PowerMILL for high-speed and five-axis machining, FeatureCAM for feature-based programming, PartMaker for Swiss-type lathes and turn-mill equipment, and ArtCAM for engraving and routing. Together, these programs comprise a comprehensive range of CAM software from a single supplier. This broad coverage is one of the reasons why Delcam is consistently ranked as the world's leading specialist supplier of NC software and services by US analysts CIMdata [[NC Software Market Assessment Report](#)].

The new release of Delcam's PowerMILL CAM software offers the fastest-ever toolpath generation on multi-processor computers, giving greatly increased user productivity. The new release incorporates the latest background-processing and multi-threading technologies and so uses the full power of recent hardware developments to reduce calculation times and increase output dramatically.

Other enhancements to further increase productivity include reduced memory usage when programming the largest and most complex parts, and improved ordering to give faster cycle times on the machine tool.

FeatureCAM's high degree of automation already gives faster programming than other CAM systems. A range of enhancements in the 2010 version will make the software even quicker. Most important of these developments is again support for multi-threading when generating 3D toolpaths. This allows calculations to be spread across multiple cores in dual- or quad-core computers. Average time savings are around 25% on a dual-core PC.

Improved algorithms have been introduced within the user interface to speed up the editing of features and to reduce the time needed to switch between machine-tool set-ups, while more efficient handling of stock models will reduce the memory required and so enhance performance still further.

Major highlights of new PartMaker release include the ability to perform five-axis simultaneous milling and swarf machining on multi-axis lathes, more powerful 3D milling functionality and an improved ability to program thread whirling.

PartMaker 2010 will also offer the option for a direct interface to PowerMILL, giving users access to all complex the five-axis machining strategies currently supported by the software, including blade and blisk machining, and to the program's highly-sophisticated three-axis strategies. Toolpaths generated in PowerMILL will be able to be imported directly into PartMaker, where they can be manipulated and synchronized on PartMaker's Process Table, and simulated and post-processed directly from the PartMaker working environment.

For the 2010 ArtCAM release, a great deal of underlying technology has been incorporated from PowerMILL. This has enabled the inclusion of the latest multi-threading technology and so given faster calculation times. It has also given users greater flexibility to edit toolpaths, in particular to optimise the leads and links.

New options include a new combination technique of roughing with an end-mill with V-bit carving. This gives the advantage of faster material removal with the end-mill, while retaining the finish quality that is possible with a V-bit cutter.

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DPR Construction, Tekla Corporation and Vela Systems Release Joint Case Study on Changing the Face of Project Controls Utilizing Integrated BIM and Field Software

22 October 2009

Center for Integrated Facility Engineering (CIFE) at Stanford University Researchers Document Significant Benefits of Integrated BIM and Field Computing Solution; Results to be Discussed in Webinar on November 11, 2009.

DPR Construction leverages an integrated combination of Tekla Structures Building Information Modeling (BIM) and Vela Systems field software in its doors, frame and hardware (DFH) self-perform construction business. Today the three companies announced the availability of a case study profiling the implementation and benefits of this integrated combination. This case study will also be explored in a **webinar** to be jointly offered by the companies at **1:30 EDT on Wednesday, November 11, 2009**. Visit <https://www1.gotomeeting.com/register/401971360> to reserve your seat for the webinar.

The Case Study

During construction of the University of California, Santa Cruz Porter B College, DPR Construction used field mobility software, tablet computers and BIM to manage all aspects of the DFH process. The usual DFH workflow involves tracking progress of doors, frames and hardware receipt, quality inspection and installation by making notes on paper logs and drawings and then spending time explaining, fixing and manually updating printed progress reports.

DPR Construction chose to replace this traditional workflow with a process that is centered on BIM and material tracking using construction field software. Through this ‘connected’ project control system, all of the information became immediately available to every project team member. Vela Systems synchronized the status information to the Tekla Structures BIM model either from the office or the field. After synchronization, the status of any component was then readily available to project managers, superintendents and others in both a report format or in a 3D model.

The Benefits

The benefits of implementing and utilizing this system were reported in a research project affiliated with the Center for Integrated Facility Engineering (CIFE) at Stanford University. Three key benefit areas included: 1) Time Savings, 2) Clear Project Visibility, and 3) Reorder Rate Reduction.

The researchers studied the DFH workflow processes before and after the implementation of the integrated Field BIM™ system. Using the integrated system DPR Construction realized the following benefits:

- 28-hour savings (70% reduction) of the recording, documenting, reporting, and communicating in the field
- 20% work productivity improvement
- Ability to instantly calculate accurately project progress and manpower statistics;
- Improved visibility into the availability of openings materials such that zero unnecessary reorders were needed for the project.

The benefits and future potential of this combination were also noted by the Operations and Virtual

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Design and Construction teams at DPR. “The 2% of job cost related to QA/QC and reorder is now ‘virtually nil.’”, commented Lisa Thomas, Manager, DPR DFH Division. Atul Khanzode, DPR Director of Virtual Design and Construction added, “Connecting the structured information contained in BIM to the jobsite through field software enables new paradigms of project delivery and control. This case study in the area of Doors, Frames and Hardware is one example of what we think is a very large opportunity to transform our industry.”

DPR Construction

DPR Construction is a general contractor and construction manager specializing in technically complex and sustainable projects for the Advanced Technology, Corporate Office, Healthcare and Life Sciences markets. A leader in green building, building information modeling, and lean/integrated project delivery, DPR continuously looks for opportunities to improve the construction supply chain management and provide a higher level of quality services on projects of all sizes and complexities. More information at <http://www.dprinc.com>.

Tekla Corporation

Tekla's model-based software products make customers' core processes more effective in building and construction as well as infrastructure management. Tekla Corporation has area offices and partner organizations worldwide. International operations account for more than 80% of net sales. Founded in 1966, Tekla is one of the longest operating software companies in Finland. More information at <http://www.tekla.com>

Tekla Structures

Tekla's technology creates new opportunities for the disciplines in the construction industry: Tekla Structures is an advanced BIM (Building Information Modeling) software that provides an accurate, dynamic, and data-rich 3D environment for structural engineers, steel detailers and fabricators, concrete detailers and manufacturers, and construction companies to share. The highly detailed as-built structural models created in Tekla Structures enable effective visualization and management of any project from sales and bidding to follow-up. Openly integrating model and non-model-based data into the model allows collaborative workflows to streamline the design, fabrication, and construction stages for the highest level of constructability and integration in project delivery. Centralizing project management into the model not only increases productivity in each stage, but also enhances the value of structural modeling throughout the value chain of building. More information at <http://www.teklastructures.com>.

Vela Systems

Vela Systems construction field software automates the execution and oversight of field activities on construction and capital projects. Instead of carrying a field notebook and paper plans or specs, jobsite users work with Vela Systems software on mobile computers to electronically access documents and to complete field reports, QA/ QC inspections, worklists, punchlists, update the BIM and many other critical field activities. Construction happens in the field - Automate it. TM <http://www.velasystems.com>.

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ESI Celebrates the 20th Anniversary of PUCA

21 October 2009

ESI Group announced the 20th anniversary of its Asian users' conference and exhibition on Simulation-

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Based Design and Virtual Prototyping, which will take place on October 29-30, 2009 in Tokyo, Japan. To celebrate this special event, [ESI](#) offers free attendance to its customers.

Designed specifically for ESI Japanese customers, but attracting visitors from across the Asia Pacific region, [PUCA 2009](#) is a unique forum for ESI users to share their expertise, best practices, successes and challenges in Simulation-Based Design. The theme of the conference, “Get it Right® at the Right Time”, not only addresses the supporting digital simulation technology but also the methodology and processes needed to get the virtual job done “at the right time.”

“ESI promotes Innovation with Simulation-Based Design. What distinguishes ESI from other MCAE vendors is our overarching vision where simulation starts immediately in the preliminary design phase, well before the first physical prototype,” reported **Isao Yumoto**, Managing Director of Nihon ESI. *“That vision is only achievable if it is possible to build the virtual prototype that properly accounts for how a product – such as a car, cell phone, or aircraft – is actually manufactured and then tested virtually in a realistic environment. This is where ESI excels,”* he continued.

The conference will bring together experts, senior practitioners and decision-makers representing the automotive, energy, aerospace, electronics and other manufacturing industries, as well as prestigious universities. Five keynote speakers will give a talk during the plenary session of the conference:

Mr. Toshihiro Araki, Nissan Motor Co. Ltd., Japan

Dr. Shinyoung Lee, Samsung Electronics Co. Ltd., Korea

Dr. Xavier Agustin, SEAT S.A., Spain

Dr. Alain de Rouvray, Chairman & CEO of ESI Group

Dr. Vincent Chaillou, President & COO of ESI Group

In addition to learning from simulation experts from around the world, attendees will get an overview of ESI’s latest product features and benefits, as well as case studies from around the world.

“PUCA 2009 is our customers’ conference for Simulation-Based Design and Virtual Prototyping, and we are happy to celebrate its 20th anniversary,” said **Dr. Alain de Rouvray**, Chairman and CEO of ESI Group. *“This demonstrates ESI’s long experience and also our company’s commitment to listen to our customers’ issues and challenges, to examine ways to further enhance software solutions and advanced engineering services worldwide, to nurture our global partnerships, and in general to accelerate the evolution towards Simulation-Based Design and End-to-End Virtual Prototyping,”* he concluded.

[PUCA 2009](#) will also feature presentations from Mitsubishi Motors Corporation, Honda Motors Corporation, Nippon Steel Corporation, Mazda Steel Corporation, Hitachi Corporation, Mizuno Corporation, Japan Atomic Energy Agency, among others.

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ESPRIT by DP Technology at Mactech Expo 2009, Cairo, Egypt, Oct. 22-25

16 October 2009

[DP Technology](#) will exhibit its ESPRIT® software Oct. 22-25 at Mactech 2009, in Cairo, Egypt.

Now in its ninth year, Mactech Egypt is the largest annual manufacturing event in the Middle East and an international showcase for machine and industrial tools, as well as welding and cutting tools.

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Scheduled to take place this year at the Cairo Fairgrounds, Mactech 2009 will represent the complete range of manufacturing technology in the region.

Visitors to the ESPRIT booth will find helpful and informative representatives available to answer questions and perform demonstrations of the latest time-saving upgrades.

Designed with ease of use in mind, ESPRIT emphasizes the use of milling and, or, turning in any combination and on any type of machine tool, which means that most improvements to the software are to the benefit of all programmers.

A new concept in highly-advanced machining functionality is based on the idea that any five-axis machining function, no matter how complex, can be defined with a few simple steps. By following the same time-tested steps that programmers use when deciding how to machine 5-axis parts, an advanced CAD/CAM system can combine highly advanced milling technology with an interface that is familiar and easy to understand. This new patent-pending FreeForm 5-axis composite machining cycle in ESPRIT allows users to independently define machining patterns and tool orientation strategies to be used when creating the simultaneous 5-axis tool path, and includes 20 different machining strategies (cycles) in one, resulting in a wide range of easily manageable possibilities. The new ESPRIT composite machining cycle gives the user the ability to perform simultaneous 5-axis machining for a wide variety of different parts and industries, including aerospace, medical, and automotive, through one simple user interface.

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47th Design Automation Conference Announces Calls for Submissions to Technical Program

21 October 2009

The [47th Design Automation Conference \(DAC\)](#) has opened the first Call for Contributions to the technical program. The 47th DAC will be held at the Anaheim Convention Center, in Anaheim, California from June 13-18, 2010. IC designers, application engineers, design flow developers, vendor-customer teams and students are invited to submit proposals for eight different areas of the technical program enumerated below. DAC is also accepting proposals for workshops and co-located events.

Special Session Suggestions:

DUE BEFORE 5:00pm MT, October 26, 2009

DAC invites suggestions for special sessions, which consist of technical contributions devoted to a topic of strong contemporary or future interest. The topic of a special session must represent an emerging area that does not yet receive sufficient focus from research papers. Suggestions must include descriptions of the proposed papers and speakers as well as the importance of the special session to the DAC audience.

See Special Session submission guidelines at

http://www.dac.com/47th/PDFs/47th_DAC_SpecialSession_Guidelines.pdf

Panel and Tutorial Suggestions:

DUE BEFORE 5:00pm MT, October 26, 2009

Suggestions for panels and tutorials should not exceed two pages, should describe the topic and intended audience, and should include a list of suggested participants. Tutorial suggestions must include a bulleted outline of covered topics.

See the Full-day Tutorial Submission guidelines at

http://www.dac.com/47th/PDFs/47th_DAC_FullDay_Tutorial_Submission_Guidelines.pdf

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User Track Presentations:

Extended Abstracts DUE BEFORE 5:00pm MT, January 18, 2010

User Track Presentations address the real-life issues facing IC designers, application engineers, and design flow developers, providing valuable insights and experiences with in-house or commercial EDA tool flows. Presentations may describe the application of EDA tools to the design of a novel electronic system or the integration of EDA tools within a design flow or methodology to produce such systems. Initial submissions are in the form of a two-page extended abstract. Final submissions will be in the form of a PowerPoint presentation and an optional paper. User Track authors will not be required to sign a copyright release form.

See details and submission categories at <http://www.dac.com/47th/UTinfo.html>

Research Papers:

DUE BEFORE 5:00pm MT, November 19, 2009

Original research papers are solicited from industry and the research/academic community. While submissions in all areas of design automation are welcome, DAC specifically solicits research papers in the areas of multicore/many core architectures, system prototyping technology and embedded software design and debug.

Submissions must not identify the author(s) by their name(s) or affiliation(s) anywhere on the manuscript or abstract, with all references to the author(s)'s own previous work or affiliations in the bibliographic citations being in the third person. All research papers will be reviewed as finished papers.

Authors of accepted papers must sign a copyright release form for their paper. See submission topic categories at http://www.dac.com/47th/PDFs/47DAC_CFP.pdf

See format and submission guidelines at

http://www.dac.com/47th/PDFs/47th_DAC_Research_Paper_Guidelines.pdf

Wild and Crazy Ideas (WACI) Papers

DUE BEFORE 5:00pm MT, November 19, 2009

WACI Papers cover interesting activities on a wide variety of topics that do not fit in the conventional mold. The WACI track features novel (and even preliminary or unproven) technical ideas. The aim of WACI is to promote revolutionary and "way-out" ideas that inspire discussion among conference attendees, create a buzz, and get people talking. Submissions should not exceed two pages, but must otherwise follow the rules and deadlines for the research papers. Unlike a DAC research paper that explores a specific technology problem and proposes a complete solution to it, with extensive experimental results, a WACI paper could present less developed but highly innovative ideas related to areas relevant to DAC. All WACI accepted papers will be required to post a two-minute video describing the work as part of the acceptance process.

See submission details at

http://www.dac.com/47th/PDFs/47th_DAC_WACI_Submission_Guidelines.pdf

Student Design Contest Submissions:

DUE BEFORE 5:00pm MT, November 25, 2009

Jointly sponsored by ISSCC and DAC, the contest promotes excellence in the design of electronic systems within an academic environment and provides a forum in which undergraduate/graduate students' ingenuity can be shared with an audience of academic/industrial technical experts. The winners will present their designs through posters at ISSCC 2010 and DAC 2010. Designs may be targeted towards analog, digital, MEMS, optics, biological, or programmable circuits and embedded systems/platforms in any of the three categories: operational, system level, or conceptual.

See submission details at http://www.dac.com/47th/PDFs/47th_SDC_Submission_Guidelines.pdf

Workshops:

DUE BEFORE 5:00pm MT, January 29, 2010

Workshops focus on topics related to design, design methodologies, and design automation.

See submission topic categories at http://www.dac.com/47th/PDFs/47DAC_CFP.pdf

For additional information on all submissions, please see

http://www.dac.com/47th/PDFs/47DAC_CFP.pdf

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NEi Software Will Participate at SAVIAC's 80th Shock and Vibration Symposium with Tutorials, User Group Meeting and Exhibition Booth

21 October 2009

[NEi Software](#) will participate in the 80th Shock and Vibration Symposium sponsored by the Shock and Vibration Information Analysis Center (SAVIAC). NEi Software will have an exhibit booth, conduct several tutorial sessions, and host a User Group meeting. The conference takes place October 25-29 at the Paradise Point Resort in San Diego, CA. Following is the schedule for NEi Software's tutorials and classes along with a brief summary:

- October 25, 12:00-3:00 PM, "Explicit FEM Analysis Using NEi Nastran".

This 3-hour tutorial will be an introduction to using NEi Explicit, a completely new explicit dynamics module for Nastran users.

- October 26, 8:00-11:00 AM, "Dynamic Design Analysis Method (DDAM)".

This 3-hour tutorial will explain the steps in determining the dynamic response of a structure to shock loading using DDAM in NEi Nastran.

- October 28, 1:20-2:20 PM, "Introduction to Finite Element Analysis".

This 1-hour class will present the basic concepts of Finite Element Analysis (FEA) and the assumptions that go into a typical analysis.

- October 28, 2:20-3:20 PM, "Bolts in FEM Analysis".

This 1-hour class is an introduction to the problems associated with bolt analyses.

- October 28, 4:00-5:00 PM, "Beam Stresses in NEi Nastran".

This 1-hour class details the method used in NEi Nastran to produce von Mises stresses and the assumptions involved in implementing them.

Additionally, NEi Software will host a booth (#31) for the duration of the conference as well as an NEi Nastran User's Group on Monday October 26th from 1:30-3:30 PM. The purpose of the meeting is to discuss user-proposed enhancements and new capabilities in upcoming product releases. There will also be a presentation of case studies featuring relevant applications in shock and vibration.

About SAVIAC's Shock and Vibration Symposium

SAVIAC's annual [Shock and Vibration Symposium](#) is a forum for the structural dynamics and vibration community to present and discuss new developments and on-going research. The Symposium includes both classified and unclassified sessions. Topics covered at the symposium include: shock testing, weapons effects, air blast, ground shock, water shock, cratering, penetration, shock physics, earthquake

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engineering, structural dynamics, shock and vibration instrumentation, and experiment techniques. Over 200 technical papers are typically presented. Panel discussions cover topics from accelerometers to software. Tutorials provide up-to-date technology overviews by leading specialists.

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Right Hemisphere Announces First Public Demonstration of 3D-Enabled EMC Documentum Software

19 October 2009

[Right Hemisphere](#)[®] announced the first public demonstration of a 3D enabled EMC Documentum Enterprise Content Management Suite. The demonstration will occur Wednesday, October 21st at 9:00 a.m. PDT in an online Webinar held by EMC Corporation and co-sponsored by Right Hemisphere and Flatirons Solutions. The webcast will show professionals how to cost-effectively leverage 3D computer-aided design (CAD) content to deliver technical publications and MRO service procedures. For more information or to register for the Webinar, please go to <http://www.emc.com/events/2009/q4/10-21-09-interactive-3-d-images.htm>.

The solution in this Webcast integrates Right Hemisphere's Deep Server™ enterprise software — which can read over 80 2D and 3D files formats — with the EMC Documentum Enterprise Content Management (ECM) Suite. The combined offering allows companies to take 3D CAD data from engineering and directly integrate it with EMC Documentum. This 3D product content can then be viewed, searched, manipulated, shared, and published utilizing Right Hemisphere's Visual Enterprise solutions, with the resulting files managed inside EMC Documentum. The solution is a true, end-to-end 3D file and content management system for non-engineering users responsible for service procedures, technical publications, and marketing deliverables.

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Schott Systeme Showcase 5 Axis Machining at Fakuma 2009

17 October 2009

Teaming up with CNC machine builder i-mes GmbH, German CAD/CAM developer Schott Systeme GmbH showcased their very latest 5 axis simultaneous machining technologies live at Europe's largest injection moulding exhibition, the Fakuma 2009 in Friedrichshafen, Germany.

Schott Systeme used the exhibition to demonstrate their latest 'Pictures by PC 3.4' CAD/CAM solution, and the incorporated 5 axis programming enhancements. To start, the company targeted the lengthy toolpath calculation times associated with 5 axis simultaneous machining, and invited visitors to benchmark their latest multi threaded toolpath calculations. Taking advantage of computers with multiple processors, tests made during the exhibition provided consistent speed gains for the calculation of complex 5 axis toolpaths of up to 50% on the dual core PC's used during the show, with the company estimating gains of up to 60-70% on quad core variants.

In addition, Schott Systeme used the live machining of an impeller to highlight the main theme of the show, that of providing increased control over 5 axis machining strategies. Essential when machining extremely tight areas where the potential of a crash between machine and part are high, the company's '5 Axis Synchronization' technology provided the ability to individually specify the orientation of the tool at specific points on the part. Interpolating the toolpath between these designated tool orientations, 5

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axis toolpaths were generated enabling the safe and optimal machining of complex parts.

For a short video preview of the 5 axis machining, visit <http://www.schott-systeme.com/en/newimpeller-en.htm>

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solidThinking to Demonstrate Its Latest Software at ACADIA09 Conference on Oct. 22-25 in Chicago

21 October 2009

solidThinking, Inc. (<http://www.solidThinking.com>), which makes the NURBS-based concept-design software offered for both Windows and MAC, will demonstrate the expansive features of its newly released software solidThinking 8.0 Inspired™ as an exhibitor and sponsor at the ACADIA09 conference in Chicago. The conference, themed “reForm(),” will be hosted at the School of The Art Institute of Chicago Oct. 22-25.

At the solidThinking booth located in the Stock Exchange Room, conference attendees will be able to view live demonstrations of the company’s new technology called morphogenesis™, which draws on the principles of biomimicry to allow designers and architects to experiment with form generation while exploring and developing their designs. morphogenesis is a key feature in the premiere release of solidThinking 8.0 Inspired. It mimics processes and physical laws in nature to help designers and architects generate structures in response to environmental conditions, which they can leverage to stimulate their designs.

solidThinking’s NURBS-based 3D conceptual design software aims to encourage innovation in industrial designers and architects through a number of advanced features, including progressive rendering; 3D manipulators for translation, scaling and rotation; a highly intuitive user interface; high dynamic range imaging (HDRI) capabilities; and more. The software also embodies a Construction Tree™ technology that allows designers to experiment in real time without having to start from scratch when they change their minds, high-quality photorealistic imaging capabilities for realistic design visualization, global illumination and more. solidThinking is available on both Windows and Mac operating systems and is compatible with leading computer-aided design manufacturing and engineering (CAD/CAM/CAE) software, encouraging improved collaboration between industrial designers and engineers during the product development cycle.

The ACADIA09 conference is designed to provide a forum for the examination of emerging research and design in today's building and design professions. For more information on the conference, go to <http://www.acadia.org/acadia2009>.

To further explore solidThinking 8.0 Inspired, check out <http://www.solidThinking.com> or connect with solidThinking on:

Facebook – www.facebook.com/solidThinking

Twitter – www.twitter.com/solidThinking

YouTube – www.youtube.com/solidThinking

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TopSolid'Wood 2009 at Batimat

15 October 2009

TopSolid'Wood 2009, the most recent version of Missler Software's integrated CAD/CAM solution for the wood industry, can be discovered at [Batimat](#) in Paris from 02-07 November.

TopSolid'Wood is an integrated design, manufacturing and management (CAD/CAM/PDM) software specialized for wood processing. It is made up of comprehensive standard components and processes specific to the wood industry. It offers powerful modelling functions, optimised assembly management and facilitated communication with customers and manufacturing.

The 2D and 3D modelling principles of TopSolid'Wood are based on those of TopSolid'Design. The association of these 2 applications offers many wood specific functionalities in addition to the rich modelling core of TopSolid'Design. These trade functions allow the user to create designs while respecting shop floor constraints.

TopSolid'Wood outputs to the CNC plant floor through TopSolid'WoodCam, an integrated CAM solution which automatically produces the ISO code, via a post processor, to manufacture parts on CNC machinery. TopSolid'Wood offers complete simulation of the machine tool which is vital to verify complex 5 axis tool paths. Any modification made during the design stage is automatically recuperated in the machining stage without having to make time-consuming changes (positioning of the part, identification of operations, choice of tools, etc.) The generation of the new ISO codes, following a design modification is, therefore, practically instantaneous.

TopSolid'Wood 2009 offers many important improvements in wood design and manufacturing. Here are some of the major highlights of the 2009 version :

- More efficient machining interfaces: Management of tool numbers and depth of special tools, control of part reversal for machining and nesting exports.

- Increased manufacturing productivity: Multi-level numbering of a project, automatic differentiation of parts based on morphological analysis, multi-plan generation

- More efficient components assembly: Predefine positioning for faster component insertion, automatic dimensioning of components

- More efficient data management: New filter system for draft and BOM generation (automatic multi-level indexes, additional information in the BOM, ...)

- New Google Sketchup interface: Importation of SKP files to access numerous 3D components available on the internet

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VISTAGY's Steve Peck to Deliver Talk on Developing Complex Composite Aerostructures at COE 2009 Industry Workshop

19 October 2009

Steve Peck, VISTAGY's director of product & market strategy for aerostructures, will present a talk entitled "Improving the Development of Complex Composite Aerostructures" on Tuesday, October 27 from 10:15-11:10 AM at the COE 2009 Industry Workshop for Aerospace & Defense in Fort Worth, Texas.

CIMdata PLM Industry Summary

All trends indicate that composite aerostructures are continually getting more complex. This is due in large part to the fact that aircraft assemblies have large volumes of highly interdependent design information. Creating the initial designs and making subsequent changes to these complex aerostructures is both time-consuming and error-prone. In this session the attendees will learn how a tightly integrated suite of software and services for aerostructure development greatly increases the design and manufacturing efficiency as well as the quality of complex composite aircraft assemblies.

Following an introductory presentation, Mr. Peck will take a close look at the VISTAGY AeroSuite solution in action as a composite skin and substructure assembly is taken through an end-to-end process.

- Beginning with initial thickness requirements, the composite skin will be developed including detailed ply definitions and the creation of the final solid. Transitioning into assembly definition, all joints, fasteners, and hole requirements will be captured.
- Design requirements, such as edge distances and countersink limits in the skin, will be verified and producibility checks of the composite part and assembly will be reviewed to ensure manufacturability.
- The as-purchased condition of supply for details will be generated as well as the intermediate states of the assembly. The demonstration will conclude with the generation of an AS9102 quality plan that is required for the First Article Inspection buy-off.

Prior to joining VISTAGY, Mr. Peck worked as an application engineer at Immersive Design, Inc., focusing on deploying solutions for model based technical documentation. He has held various product development and project engineering positions within the Thermoplastic processing industry. Mr. Peck earned a Bachelor of Science degree in mechanical engineering from the University of Massachusetts in Lowell.

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Webinar: Tool Shop Optimization Case Studies

October 2009

Date: Date: Tuesday, October 27

Time: 2:00-3:00 pm EDT

Presenters:

Kent Smith, Founder and President,

Diamond Tool & Engineering

Zelko Rezler, Co-Owner and Engineering Manager, Rezmin Tool & Die

Hari Sridharan, VP Engineering,

Cimatron Technologies Inc.

Moderator

Peter Zelinski, Senior Editor,

Modern Machine Shop

Details: How mold and die makers are able to use their speed to:

- Produce high quality tools at lower cost
- Respond to customer schedules and last-minute changes
- Be more aggressive in their quoting (and produce quotes quicker)
- Better position their businesses to withstand the pressure of overseas competition

Registration: <https://www1.gotomeeting.com/register/279513576>

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Financial News

Apache Design Solutions Achieves Record Q3 Bookings and Revenue

21 October 2009

Apache Design Solutions announced that the company has achieved record bookings and revenue in Q3, while maintaining profitability. Q3 sales consisted of continued investments by existing tier one customers in Apache's power and noise platforms – RedHawk, Totem, and Sentinel - and the adoption of Sentinel product line by leading packaging manufacturer. During Q3, Apache completed its acquisition of Sequence Design to expand the company's product offering to the RTL domain. Also Apache announced today that it was selected as one of the fastest growing technology, media, telecommunications, life science and clean technology companies in North America by Deloitte's 2009 Technology Fast 500™.

“Over the past several years, Apache has continued to expand the product portfolio through organic innovations and strategic acquisitions,” said Andrew Yang, CEO of Apache. “Our complete chip-package-system solutions from prototyping to sign-off enable our customers to design lower power and more cost effective products.”

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EMC Reports Third-Quarter 2009 Financial Results; Revenue Ahead of Company Expectations

22 October 2009

Highlights –

Third-quarter consolidated revenue up 8% sequentially; Ahead of prior company outlook of 4% to 5% sequential growth

Third-quarter GAAP net income up 45% sequentially;

Non-GAAP net income up 34% sequentially

Third-quarter GAAP diluted EPS up 40% sequentially;

Non-GAAP diluted EPS up 28% sequentially

Strong sequential increase in gross and operating margins

CIMdata PLM Industry Summary

Year-to-date operating cash flow - \$2.3 billion; Year-to-date free cash flow - \$1.8 billion

EMC Corporation reported third-quarter 2009 consolidated revenue that exceeded company expectations for the quarter. The company achieved third-quarter revenue of \$3.52 billion, an increase of 8% compared with the second quarter of 2009. The results exceeded previous company outlook of 4% to 5% sequential revenue growth. Third-quarter GAAP net income attributable to EMC reached \$298.2 million, an increase of 45% sequentially and GAAP diluted earnings per share were \$0.14, an increase of 40% sequentially. Third-quarter 2009 non-GAAP(1) net income attributable to EMC increased 34% sequentially, reaching \$480.3 million or \$0.23 per diluted share, an increase of 28% sequentially.

Third-quarter consolidated revenue of \$3.52 billion declined 5% compared with the year-ago period. Third-quarter 2009 GAAP net income attributable to EMC compares with \$393.4 million or \$0.19 per diluted share for the third quarter of 2008 and third-quarter 2009 non-GAAP net income attributable to EMC compares with \$510 million or \$0.24 per diluted share achieved in the third quarter of 2008.(2)

In the third quarter, EMC generated operating cash flow of \$888 million and free cash flow of \$745 million and ended the quarter with cash and investments of \$8.4 billion. Year to date, EMC has generated operating cash flow of \$2.3 billion and free cash flow of \$1.8 billion.

Joe Tucci, EMC Chairman and Chief Executive Officer, said, "I am very pleased with EMC's solid financial performance in a challenging economic climate. While remaining closer than ever to customers, we made additional progress optimizing our cost structure, expanded our product portfolio, strengthened our partner ecosystem and positioned EMC to capitalize on four of the higher-growth, multi-billion-dollar market opportunities around fully virtualized data centers, cloud computing, virtualized desktops and clients, and next-generation backup and recovery. I am extremely proud of the EMC and VMware people around the world who achieved these results."

Commenting further, Tucci said, "Customers are signaling more comfort spending their IT budgets, which gives EMC confidence in our ability to perform well and achieve our full-year 2009 targets. We are strategically aligned with the major technology shifts and well positioned to play a pivotal role in the IT industry for the next decade."

David Goulden, EMC Executive Vice President and Chief Financial Officer, said, "EMC achieved solid sequential revenue and profit growth while continuing to generate strong free cash flow. Combined with a continued disciplined focus on cost control, this helped EMC deliver improved gross and operating margins, highlighting the resilience of our financial model and our crisp execution. We remain committed to driving growth and operating leverage through our business, while continuing to invest in strategic growth opportunities to further extend EMC's market leadership."

Third-Quarter Business Highlights

EMC's Information Infrastructure business for the third quarter - comprising product and services revenue from Information Storage, RSA Security, and Content Management and Archiving - reached \$3.03 billion, an increase of 8% sequentially. The Information Infrastructure business was driven by strong sequential growth of the market-leading EMC Symmetrix high-end storage systems including strong adoption of the new EMC Symmetrix V-Max line, EMC next-generation backup and recovery solutions and EMC Celerra unified storage systems. Further third-quarter highlights included customer demand for EMC's RSA information security solutions, consumer and small business-focused Iomega products, content management and archiving solutions, and EMC's broad consulting and professional services portfolio.

CIMdata PLM Industry Summary

VMware, which is majority-owned by EMC, contributed third-quarter revenue of \$489 million.

EMC consolidated third-quarter revenue from the United States reached \$1.90 billion, up 13% sequentially, and represented 54% of total third-quarter revenue. Revenue from EMC's operations outside of the United States reached \$1.62 billion, up 3% sequentially, and represented 46% of total third-quarter revenue.

Business Outlook

The following statements are based on current expectations. These statements are forward-looking, and actual results may differ materially. These statements do not give effect to the potential impact of mergers, acquisitions, divestitures or business combinations that may be announced or closed after the date hereof. These statements supersede all prior statements regarding business outlook and certain items impacting 2009 set forth in prior EMC news releases.

All dollar amounts and percentages set forth below should be considered to be approximations.

- Consolidated EMC revenues are expected to be \$4.0 billion for the fourth quarter of 2009 and \$13.9 billion for 2009.
- Consolidated GAAP diluted earnings per share are expected to be \$0.21 for the fourth quarter of 2009 and \$0.55 for 2009.
- Consolidated non-GAAP diluted earnings per share, excluding the impact of restructuring charges, stock-based compensation expense and intangible asset amortization, are expected to be \$0.30 for the fourth quarter of 2009.
- Consolidated non-GAAP diluted earnings per share, excluding the impact of restructuring and acquisition-related charges, stock-based compensation expense, intangible asset amortization and gains recognized from holdings in Data Domain and SpringSource common stock, are expected to be \$0.87 for 2009.
- Consolidated restructuring charges, stock-based compensation expense and intangible asset amortization are expected to be \$0.01, \$0.06 and \$0.02 per diluted share, respectively, for the fourth quarter of 2009.
- Consolidated restructuring and acquisition-related charges, stock-based compensation expense and intangible asset amortization are expected to be \$0.04, \$0.21 and \$0.08 per diluted share, respectively, for 2009. Offsetting these charges is a \$0.01 per diluted share gain recognized from holdings in Data Domain and SpringSource common stock.
- The consolidated GAAP income tax rate is expected to be 13% for 2009. Excluding the impact of restructuring and acquisition-related charges,

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stock-based compensation expense, intangible asset amortization and gains recognized from holdings in Data Domain and SpringSource common stock, which collectively impact the tax rate by 6%, the consolidated non-GAAP income tax rate is expected to be 19% for 2009.

- The weighted average outstanding diluted shares are expected to be 2.12 billion for the fourth quarter of 2009.
- In 2010, cost reduction actions are expected to generate savings of \$500 million compared with 2008.

Supporting Resources

EMC will host its 2009 third-quarter earnings conference call today at 8:30 a.m. ET, which will be available on EMC's web site at

<http://www.emc.com/about/investor-relations/index.htm>

- Additional information regarding EMC's financials, as well as a webcast of the conference call, will be available at 8:30 a.m. ET at

<http://www.emc.com/about/investor-relations/index.htm>

- Visit <http://ir.vmware.com/> for more information about VMware's third-quarter financial results.

(1) Items excluded from the non-GAAP results are gains on Data Domain and SpringSource common stock, restructuring and acquisition-related charges, stock-based compensation expense and intangible asset amortization for the third quarter of 2009 and restructuring charge, special income tax benefit, stock-based compensation expense and intangible asset amortization for the third quarter of 2008. See attached schedules for reconciliation of GAAP to non-GAAP.

(2) The results for 2008 have been adjusted to give effect to the adoption of authoritative guidance relating to non-controlling interests and the accounting for convertible debt instruments.

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Implementation Investments

Aerospace Company Offers New Full-Plane 3D Scans With Z Corporation's ZScanner 700 PX

20 October 2009

When a 30-year-old aircraft arrives in the hangar for retrofitting or repair, the more information engineers have the better.

That's why Texas-based aviation services company [M7 Aerospace](#) is now offering a new service to create precise, three-dimensional portraits of entire planes down to one-thousandth of an inch. To execute the job, M7 purchased a [Z Corporation](#) ZScanner® 700 PX, a handheld laser scanner that precision-scans large objects such as aircraft and automobiles -- items that previously have been too big

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to capture by hand.

M7 recently used the ZScanner to precisely capture the entire surface of a Fairchild Metroliner in a resolution of 0.1mm, in just three days. The Fairchild Metroliner is a 19-seat commuter class, turboprop aircraft with a 57-foot wingspan. The same job would have taken weeks, months or years, if attempted at all, with other scanning technology.

"There's a growing need for both our government and commercial customers to keep their older aircraft flying and productive," said Joe Furnish, M7 Aerospace vice president of engineering services. "This new scanning capability from Z Corporation helps us do that. By automatically capturing deep engineering data, we can more quickly and efficiently reverse-engineer aircraft and components that were originally designed in the 2D era -- before 3D computer-aided design was readily available."

ZScanners are the world's first handheld, self-positioning 3D scanners. Most scanning technology requires jigs, fixtures, tripods or mechanical arms. The ZScanner's advantage is that it's uniquely handheld and self-referencing; it automatically determines its location in space without the need for external orienting devices. The user simply sweeps the scanner over the target surface and "paints" it with complete freedom of movement around aircraft, automobiles, boats or other large objects. As the user paints with the scanner, the digitized object appears on a laptop screen, eliminating costly and time-consuming post-processing.

The ZScanner 700 PX's breakthrough in scale stems from built-in AICON™ photogrammetric software, previously available only in fixed-position 3D scanners that lack the handheld's mobility, speed and convenience. This photogrammetry capability, which provides high accuracy on very large objects, is uniquely combined in the ZScanner 700 PX with laser scanning for fine data capture at high resolution.

M7 Aerospace's engineering team worked closely with AGS 3D, Inc. (<http://www.ags-3d.com>), of Austin, Texas, to adapt the ZScanner to the specialized needs of an aviation engineering department. AGS 3D, Inc. is a distributor of Z Corporation 3D printers and 3D scanners.

The value of engineering data

In addition to civilian aircraft, M7 Aerospace maintains and modifies legacy aircraft for the US military and foreign governments. Older but still viable aircraft are sometimes called upon to perform more modern roles and require modification such as ballistic blankets, avionics upgrades, and external sensor installations for missile defense systems.

These modifications can be time-consuming and expensive without precise data, which is often lacking due to the absence of original paper design documents or because of variations in a given craft. Variations in an aircraft can result from manufacturing conditions, modification, and wear and tear.

With the addition of the ZScanner, M7 Aerospace's Engineering team can create CAD-ready 3D models of an entire aircraft, making the integration of these modern defense systems easier and more cost effective. After ZScanning, both M7 Aerospace and the plane owner have the precise engineering data they need to efficiently repair, modify or retrofit any plane they encounter. They also have a detailed design template for any plane based on the same design.

"There's an increasing demand for large-scale scanning capability in aviation, as well as other industries that engage in reverse engineering, inspection, 3D archiving, measurement, damage assessment and similar uses," said Richard Honey, president of AGS 3D. "The ZScanner's speed, accuracy, and ease of use translate into cost savings, new revenue and increased quality."

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Amiee Lynn Implements Visual PLM.netTM

20 October 2009

Amiee Lynn Inc. has selected Visual PLM.netTM to integrate all departments into a collaboration work environment. The software will provide all users with a single point of access and a common interface across the company's new product development efforts.

The Amiee Lynn team has put together a global sourcing initiative and will leverage Visual PLM.netTM collaboration platform as an integral part of its strategic sourcing plan and its global procurement strategy. Amiee Lynn will benefit from the economies of scale Visual PLM.netTM will provide through corporate-wide standardization.

Steven Spolansky, co-founder of Amiee Lynn Inc defined this aspect of global sourcing as: "proactively integrating and coordinating common items and materials, processes, designs, and suppliers across worldwide purchasing and operating locations".

About Amiee Lynn Inc.

Started in 1993 by Brothers Michael and Steven Spolansky, Amiee Lynn originated as a belt company and has experienced substantial growth through the addition of new divisions, scarves, hats, soft accessories, cold weather accessories, and jewelry. Amiee Lynn's most recent acquisition of Leg Apparel, a hosiery company, completes its extensive product line with leg wear.

Amiee Lynn's Division caters to all aspects of the accessories market with brands and licenses such as: Amiee Lynn Belts, Lake Shore Drive Belts, 29 Palms Soft Accessories, Fair Weather Accessories, GemBella Jewelry, Lake Shore Drive Jewelry, Leg Apparel. Licenses include: Kensie Accessories, Liz Claiborne Accessories and Legwear, Givenchy Legwear, Ellen Tracy Legwear and Jessica Simpson Legwear, Amiee Lynn has offices in Shanghai and Hong Kong.

About Visual PLM.netTM

Visual PLM.netTM is a full featured Product Lifecycle Management software solution.

A multi Platform browser based client, Visual PLM.netTM, includes PDM, Merchandise Planning, Multi level Project Management, User and Role based Calendars, Automated internal and external Notification System, Field Based Workflow management, Formulas (Validations, Costing), PDM Interface Designer, Search Designer, Data Integration Manager and Dynamic Reporting Tool.

About Visual 2000 International

Visual 2000 International Inc is a leading provider of End-2-End Software Solutions to the AFA, Apparel, Footwear and Accessories industry. For more information about Visual 2000 International, please <http://www.visual-2000.com>.

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ATR INGENIERIE Selects HyperWorks Suite to Streamline Mechanical Engineering Projects

21 October 2009

[Altair Engineering, Inc.](#) announced that ATR INGENIERIE, a leading French engineering service

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provider, has selected HyperWorks, Altair's CAE suite, to further streamline the company's engineering capabilities for projects within its mechanical engineering division.

ATR INGENIERIE carries out projects, expertise and studies in industrial engineering for new plants and equipments and for operating cycle and dismantling for the nuclear sector, as well as for industries with risks in general. ATR INGENIERIE is involved in a large domain of activities, such as operating and hazard analysis, new facilities design and building assistance, decommissioning and waste management.

Thanks to HyperWorks and the [HyperWorks](#) Enabled Partner Program, the engineers of ATR INGENIERIE's mechanical engineering department, dealing with highly complex projects, will be able to cover all upcoming CAE tasks within the same software environment and under an integrated licensing system.

In addition, ATR INGENIERIE has introduced a partnership with Altair France. This partnership will assure ATR INGENIERIE's customers the use of HyperWorks and especially the use of RADIOSS, the nonlinear solver of the CAE suite, to its full potential. RADIOSS will be used to simulate drop tests of metallic and reinforced concrete containers. The aim is to define robust packaging concepts for transport and storage of hazardous material. The accelerated model creation with HyperMorph and HyperStudy will bring an additional value to the projects of ATR INGENIERIE, especially regarding optimization and robustness studies.

"The multidisciplinary character of HyperWorks was a major reason for us to choose HyperWorks," said Sylvain Tholance, project manager, ATR INGENIERIE. "Altair's software allows us to treat a wide range of problems, including classic linear static analysis, thermo mechanics, fatigue, frequency response and spectrum analysis, and fast dynamic impact problems involving fluid-structure interaction. Last, but not the least, Altair's on-demand licensing system helps us to react rapidly to all of our customers' requests and to work on all types of applications, since it also gives us access to several partner applications."

"We are very pleased about the relationship with ATR engineering," said Mauro Guglielminotti, regional director, Altair France. "They use the full range of our HyperWorks products and participate in the HyperWorks Enabled Partner Program, which gives them access to a broad range of partner applications at no additional cost. I'm looking forward to the partnership with ATR INGENIERIE, and I am sure that everyone involved -- Altair, ATR and our joint customers -- will highly benefit from it."

About ATR engineering

ATR INGENIERIE carries out projects and studies for the nuclear industry as well as for industries with risks in general. ATR INGENIERIE is involved in a large domain of activities, such as operating and hazard analysis, new facilities design and building assistance, decommissioning and waste management. The main divisions at ATR are:

- Mechanical Design & Sizing (handling and lifting, special tools, nuclear equipment, etc.),
- Engineering Works / Operational Support :conception of intervention scenarios and methods to operate facilities decommissioning and decontamination, technical advice and evaluations, construction management, tests, reception, operational management of waste,

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- computer aided management tools,
- Process Engineering (heat transfer, PWR circuits, fluids networks, utilities, etc.) involving thermal hydraulic analysis,
 - Mechanical Engineering (mechanical and thermal design / static, dynamic, linear, nonlinear analysis: Crash, Perforation, Explosion, fire, etc.),
 - Risk Management (nuclear safety, nuclear engineering, risk analysis, safety operating, decontamination, environment, etc.).

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Catalog Data Solutions Selected by E•Drive for Online CAD Downloads

20 October 2009

Catalog Data Solutions ([CDS](#)) announced that [E•DRIVE Design, Inc.](#) has selected its online CAD download solution to present and download products selected using its online configurator. E•DRIVE Design Inc. is a West Hartford, CT based manufacturer of Precision Mechanical linear actuators. “Our product range is wide and diverse – adding CAD model downloads to our web site will save our customers time in selecting and including our products for their designs,” said Todd Pannone, [Senior Product Design Engineer], E•DRIVE Design. “As a result we expect to see an increase in the number of online sales leads and RFQs.”

“We are delighted to have been selected by E•DRIVE Design for our leading online CAD download solution”, said John Major, CEO Catalog Data Solutions, “3D models are increasingly a vital sales and marketing tool for industrial suppliers and distributors. With many customers moving from 2D to 3D CAD systems providing online 3D CAD model downloads saves customers time and often ‘locks’ products into a design. Conversely suppliers without 3D models on their website are at risk of losing customers to their competition who do offer 3D models”.

Studies show that over 90% of designers and engineers now use the Internet to locate components for their new designs. Catalog Data Solutions helps industrial suppliers and distributors grow sales and strengthen customer loyalty through interactive online catalogs, ecommerce, 3D CAD model delivery and product configurator solutions.

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CHIDI Leverages Dassault Systèmes PLM Solution to Build World-Class Hydropower Plants

21 October 2009

Dassault Systèmes (DS) announced that HydroChina Chengdu Engineering Corporation (CHIDI), one of China’s largest hydropower investigation and design enterprises, has successfully implemented Dassault Systèmes’ PLM solutions to facilitate investigation, design, and collaborative management of hydropower plants. By leveraging Dassault Systèmes, CHIDI has significantly shortened project timelines, reduced total costs, and improved the collaboration between cross-functional teams of designers and engineers. CHIDI has also been able to leverage Dassault Systèmes’ 3D capabilities to

CIMdata PLM Industry Summary

provide more lifelike insights into online modelling and designs, facilitating greater collaboration with suppliers and ensuring the feasibility of the design process.

CHIDI, which is recognized as one of the world's major hydropower R&D organizations, has played an intrinsic role in the design and development of many of China's most famous hydropower plants, including Ertan Hydropower Plant, currently the highest dam and largest hydropower plant built in Asia, Xiluodu Hydropower Plant on the Jinsha River, the world's second largest hydropower plant, and Jinping Stage 1 Hydropower Station, the world's highest arch dam with a height of 305m. To expand its reach and reputation, CHIDI decided to implement a PLM solution to improve its design quality and overall project management proficiency.

CHIDI has adopted a comprehensive array of Dassault Systèmes' PLM solutions since 2006. To drive the collaborative design and 3D elements of plant engineering (including feasibility studies, super-standard and technical construction design), the company has leveraged CATIA. The CATIA solution, which has been utilized in the development of Xiluodu and Jinping Stage 1 Hydropower projects, has ensured precise communication and accurate information exchange across multiple functions and sites which has helped to reduce design errors, thus reducing delays, improving design quality and minimizing costs (in terms of time and materials). In order to drive greater collaboration with suppliers as well as strategic procurement and project management CHIDI has also deployed Dassault Systèmes' ENOVIA collaborative business process platform. In addition, CHIDI is using 3DVIA Composer to produce 3D documentation for publications, ensuring effective communication with proprietors and construction units.

“There are so many mission critical elements to building a hydropower project that it's essential for us to have access to the most advanced equipment and software solutions. Our ability to be able to design and implement new, fail safe projects on time and to budget are ultimately key for us maintaining our status as a world leader in this field,” said Zheng Sheng'an, President for CHIDI. “To date Dassault Systèmes has demonstrated an ability to understand the challenges that we face and provides us with solutions that anticipate changes in the market – most notably in the use of 3D technology and greater collaboration.”

“China's emergence as the world's largest producer of hydropower provides Dassault Systèmes' with a unique opportunity to help the industry leaders shape future product and engineering developments,” said Zhao Heng, vice president, [Dassault Systèmes](#) Greater China. “Through close collaboration with CHIDI and with our advanced PLM solutions, we are dedicated to supporting China's hydropower industry to further improve its design and innovation capabilities and accelerate the entire industry's advancement and growth.”

Dassault Systèmes' PLM solution is already being used successfully in the hydropower industry worldwide. Hydro-Quebec in Canada and Voith Siemens, an internationally renowned hydropower equipment maker, have both chosen Dassault Systèmes' PLM solutions to perform product lifecycle management for 3D design, digital construction and maintenance of their hydropower plants.

About HydroChina Chengdu Engineering Corporation (CHIDI)

HydroChina Chengdu Engineering Corporation (CHIDI) is one of China's largest general contractors for medium- and large-sized hydropower investigation, design, supervision, consulting and engineering projects, possessing a national Class-A certification. Founded in 1955, it currently employs over 2,000 workers of which more than 1,300 are technical professionals, including one national investigation and design master. As a leader in the hydropower plant design field, CHIDI is equipped with advanced

CIMdata PLM Industry Summary

exploration and test instruments and a stable information technology system. CHIDI has established a sound quality assurance system and passed GB/T19001--ISO9001 certification. Currently, CHIDI has become a multifunctional economic entity that integrates project planning, investigation, design, research, foundation treatment, project monitoring, environmental protection, project supervision, project consultancy and general project contraction, and operates both in China and abroad.

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Delcam's PowerMILL Gives Aerospace Company up to 80% Faster Programming

23 October 2009

Moving to [Delcam](#)'s PowerMILL CAM system for high-speed and five-axis machining has enabled French aerospace manufacturer Creuzet Aeronautique to cut its programming times dramatically. According to Tooling Department Manager Teddy Kanellos, the company can save between 25% and 80% of the time previously needed, depending on the complexity of the part.

The company, which is based between Toulouse and Bordeaux in the South-West of France, was first founded in 1934 by Robert Creuzet. It has worked exclusively in the aerospace industry since the 1950s and now takes part in all the main European aerospace programmes.

Creuzet operates a range of processes, including extrusion, forming and forging, plus conventional and electro-mechanical machining. The company has become well known for its ability to innovate and to adapt its processes to any specific manufacturing needs, in particular aiming to save weight and reduce costs significantly compared to traditional solutions.

Like many other companies, Creuzet Aeronautique started looking for a more efficient CAM solution when it introduced five-axis machining. A shortlist of five suppliers was drawn up, with two then selected for a benchmark on the typical types of part produced by the company.

“We focussed our investigation on the five-axis capabilities of the various programs,” explained Jean-Pierre Bayle, Production Manager at Creuzet. “This reduced the number of candidates able to meet our needs to two. For the benchmark, rather than rely on the CAM companies’ demonstrators, we allocated one of our own operators to learn each of the CAM systems. This approach showed that the Delcam software was the better choice for us: it is flexible and easy to use, and it seemed to improve the quality of our programming. Moreover, we enjoyed working with the Delcam team.”

Bruno Casagrande, Mechanical Department Manager, explained that the company decided to invest in a complete CAD/CAM solution by combining Delcam's PowerSHAPE design software with PowerMILL. He also added: “The features that our users like most in the Delcam software are the automatic and rapid toolpath generation, the dynamic collision avoidance, via the direct connection with Vericut, and the fast calculation times. In addition, they particularly appreciate the speed of the Delcam team's assistance.”

Mr. Casagrande acknowledged that Delcam software was not the automatic choice for many aerospace manufacturers. However, he quoted company founder, Robert Creuzet, to support his decision: “To be the best, you must be different.”

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Edge Accessories Selects WFX Web PLM

20 October 2009

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Edge Accessories UK, the young and fast growing accessories company, delivering range of accessories to top UK retailers and brands has signed on to use WFX Web PLM.

Edge Accessories will be using WFX PLM to share updated product information with their users in the United Kingdom and sourcing personnel in China. The time and action calendar allows tracking of tasks and deadlines ensuring timely deliveries and a reduction in errors.

“Given the rate of our growth, we are looking for an easy to use yet scalable solution to help us deliver a higher number of products to our customers quicker” Mike Lamb, CEO, Edge Accessories.

“WFX is the ideal solution for apparel businesses looking at implementing an effective and easy web-based PLM. We offer PLM On-Demand which means it’s hosted by us. So the customer doesn’t have to worry about maintaining hardware or software and investment is minimal. The only thing the user has to do, is use it!” Jatin Paul, WFX Director.

WFX ‘s low cost subscription based pricing plans and fanatical support ensures customers get the quickest return on their investment. More information is available at <http://www.wfxondemand.com>.

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Hamilton Caster Leverages PARTsolutions' Technology to Become the Go-To Manufacturer for Caster Designs

20 October 2009

[PARTsolutions, LLC](#) and industrial wheel and caster manufacturer Hamilton Caster announced an expansion to their 3 year partnership. Hamilton Caster has embedded the PARTsolutions 3D Part Catalog solution directly into its web product pages, to further enhance customer experience and increase sales.

Hamilton Caster first implemented PARTcatalog™ from PARTsolutions in 2006, in order to web enable its product line of heavy duty industrial casters, stainless steel casters, caster wheels and polyurethane wheels. Eliminating the time-intensive process of creating, migrating and translating 3D catalog content has saved the company enormous resources, while streamlining the design process for its industrial market customers -- including Northrop Grumman, Harley Davidson, Ford and Daimler. Today the company is further investing in 3D part catalog technology by embedding it directly into its website, making CAD a more integral part of its customers' product selection and design processes. Hamilton Caster has also moved catalog modeling in-house by licensing PARTsolutions' PARTcatalog software to develop and maintain its 3D catalogs with the company's own engineers.

"Research and experience have shown us that engineers are much more likely to purchase the products used in their prototype designs," said Mark Lippert, vice president of marketing, Hamilton Caster.

"Engineers across the country were also looking for a faster and easier way to integrate our casters and wheels into their designs. Working with PARTsolutions, we've been able to leverage our existing technology to arm engineers with the ability to download digital products directly from our website, and the flexibility of their solutions continue to meet our evolving needs."

"[Hamilton Caster](#) continues to build on 100 years of momentum, experience and innovation," said Rob Zesch, president of PARTsolutions. "Combining its sophisticated manufacturing techniques with our cutting-edge CAD design technologies is enabling Hamilton Caster to aggressively march into its eleventh decade of serving customers."

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Intrinsity Uses Magma's Talus Platform to Implement World's Fastest Low-Power ARM Cortex A8 Processor Core

20 October 2009

Magma Design Automation Inc. announced that Intrinsity, a provider of high-speed, low-power processors, implemented the world's fastest ARM(R) Cortex™ A8 Processor Core in a low-power process using Talus(R) Vortex and Talus Power Pro. Magma's open-architecture IC implementation system provided the needed support for Intrinsity's custom flows and proven ability to close timing while meeting the low-power requirements. As a result of this success, Intrinsity has upgraded to Talus 1.1, the latest version of the Magma system.

The core was implemented in Samsung's 45-nanometer (nm) low-power, low-leakage process technology and is being used in the development of standard mobile system-on-a-chip (SoC) products. Talus' placement-aware restructuring and physical optimization were key to achieving the 1-GHz operating speed on this design. Intrinsity leveraged the Magma system's open architecture and powerful interface to fine tune the optimization and the custom clock tree synthesis flow, ensuring that the best possible performance was achieved.

"Magma software has been instrumental in enabling us to deliver higher performance while keeping power consumption low on a number of designs," said Mark McDermott, vice president and general manager of Engineering at Intrinsity. "With the runtime improvements we've seen in Talus 1.1, we will be using it to implement other high-performance, low-power, time-sensitive design projects."

"The Talus platform was designed specifically for chips at 45-/40-nm or smaller and our customers have already implemented more than 50 such designs," said Premal Buch, general manager of Magma's Design Implementation Business Unit. "Intrinsity's ability to achieve 1-GHz frequency on a low-power process and tape out on time demonstrates why Talus is the ideal tool for high-performance, low-power, advanced-process designs."

Talus: Fastest Path to Silicon™ for High-Performance, Low-Power 45-/40-nm Chips

[The Talus system](#) was built to address the requirements of chip design at advanced process nodes. Talus 1.1 extends its capabilities. Magma customers have found that Talus 1.1 delivers significant improvements in runtime and timing convergence and that it achieves timing closure with no design-rule checking (DRC) violations while reducing total chip area. Talus 1.1 also offers a significant capacity advantage over competing systems, which allows design teams to work on much larger blocks during the design process.

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Mentor Graphics Catapult C Synthesis Selected by Fujitsu QNET to Achieve Significant Reduction in Power Consumption

20 October 2009

Mentor Graphics Corp. announced that Fujitsu Kyushu Network Technologies Limited (Fujitsu QNET) has chosen the Catapult C Synthesis tool for use in its design tool environment to implement complex algorithms in hardware that were previously processed by a processor implemented on LSI. Fujitsu's

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growing expertise with the Catapult C tool is also a key enabler in the expansion of their design services business.

Fujitsu QNET was able to dramatically cut power consumption by using the Catapult C Synthesis tool to create a dedicated hardware accelerator for mobile voice processing algorithm versus running in software. The resulting silicon implementation yielded a reduction in power consumption of 83%. This was made possible by the ability of the Catapult C tool to find the optimal trade-off between power, performance and area, in this case, implementing a design satisfying voice performance requirements while running at a lower clock frequency than the previous implementation using a processor.

Fujitsu QNET is also expanding its use to a host of application areas including image authentication and wireless processing systems. Fujitsu QNET is now aiming to deliver significant performance improvements to its image recognition systems by accelerating features previously processed on dedicated DSPs and implementing them in custom hardware. The Catapult C tool's ability to synthesize high-performance RTL from its original C programs is a key enabler for Fujitsu QNET to create differentiated products.

Based on the depth of knowledge and experience they gained through the production use of the Catapult C Synthesis tool, Fujitsu QNET plans to provide their customers with a greater value and development efficiency through their design service business.

“Fujitsu QNET was able to reduce power consumption and improve design performance of our LSI by implementing the RTL circuit from ANSI C++ program that describes complex algorithm, and Catapult C Synthesis was a key tool in achieving our success,” said Mr. Hiroaki Yamashita, Manager, Development Division of Fujitsu QNET. “By the results we’ve seen and the experience we’ve gained, we believe we can help our customers achieve higher performance and higher added value in their system development, and significantly reduce development cost and time to market.”

“We are impressed with Fujitsu QNET’s application of the Catapult C technology in their design flow, and their knowledge and experience in IC design and ESL methodologies, especially in C-synthesis,” said Simon Bloch, Vice President and General Manager of Mentor Graphics Design and Synthesis Division. “As companies deploy high-level synthesis, we are seeing steady and accelerated adoption of Catapult C given its ability to synthesize both algorithmic and control blocks and balance excellent results across power/area/performance.”

About Catapult

The Catapult C Synthesis tool is the first product to automatically generate control and algorithmic RTL multi-block designs from a pure ANSI C++ source where both the core algorithm and interface are untimed. This productivity improvement gives designers time and freedom to automatically perform detailed design exploration of different micro-architectural options and interface scenarios to quickly achieve fully optimized hardware designs. For more information, including whitepapers, datasheets and product demos on the Catapult C Synthesis tool, please visit <http://www.mentor.com/esl>.

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Norwegian Industrial Electronics Specialists Turn to Zuken for Linux Compatible Electronic Design Software Solution

20 October 2009

Norbit, a Norwegian Original Design Manufacturer, has signed an agreement with Zuken to transition

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their total PCB layout and system level design environment to Zuken's [CR-5000](#) solution.

It is critical for Norbit to have design tools that allows them to implement the latest technology and continue to push the technological boundaries. In 2008 they had come to a critical point, where they were reaching a brick wall in their projects as a result of design tool limitations.

Norbit commenced the search for a design solution that would allow them to realize their innovation potential. Norbit has seen the benefits in using Linux both embedded in Norbit products as well as on their business servers. Based on this, Norbit wanted to make the transition of their PCB layout environment to Linux. This was another reason why they turned to CR-5000, as the Linux version of the solution has been widely adopted by some of the leading electronics companies, giving Norbit the confidence that this would deliver the cutting edge design capabilities at the same time as the security of an open-source operating system.

For a comprehensive solution, Norbit is now working with Zuken's most advanced, modular design environment CR-5000. For the system level part of the design process they are using CR-5000 System Designer and for layout, CR-5000 Board Designer.

"Working with Zuken will enable us to take the next step in product innovation, bring about design efficiencies and allow us to have more control over our systems," said Per Jørgen Weisethaunet, Norbit CEO.

For more information about CR-5000 visit www.zuken.com/cr-5000

[About Norbit](#)

Norbit is an ODM supplier of industrial electronics and an industrial entrepreneur, making industrial, spin-off, initiatives based on NORBIT technology, as example Norbit SubSea AS, Norbit ITS AS and Fenrits AS. Norbit has expertise in the following fields: Radar, Ultrasound, Sonar, Electronic Toll Systems, Navigation systems, Power line modems, Radio and antenna systems and Embedded systems.

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SMIC Adopts Cadence DFM Solutions for 65- and 45-Nanometer IP/Library Development and Full Chip Production

20 October 2009

Cadence Design Systems, Inc. announced that Semiconductor Manufacturing International Corporation (SMIC) has adopted Cadence® Litho Physical Analyzer and Cadence Litho Electrical Analyzer to more accurately predict the impact of stress and lithographic variability on the performance of 65- and 45-nanometer semiconductor designs. SMIC combined Cadence Litho Electrical Analyzer -- the semiconductor industry's first electrical DFM solution in production at leading semiconductor companies using process nodes from 90 nanometers to 40 nanometers--with Cadence Physical Analyzer to create a flow that accurately predicted final silicon results.

Previously, the electrical behavior of individual cells and libraries could be pre-characterized in a single context that could be consistently applied to a given design based on the targeted process technology. At 65 nanometers and below, each placement of a cell creates its own set of physical and electrical variabilities relative to its neighboring cells or surroundings. This "context dependent variability" is emerging as a critical issue that can cause the chip to fail. Cadence Encounter® Digital Implementation System (EDI) System seamlessly integrates both the Litho Physical Analyzer and Litho Electrical Analyzer for rigorous context-dependent physical and electrical signoff of cells prior to full-chip

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implementation. The flow leverages model-based physical and electrical design for manufacturing (DFM) technologies to improve the quality and reliability of standard cell libraries and intellectual property (IP) cores, to increase manufacturing yield in full chips.

“The necessity to address physical and electrical variation at 65 and 45 nanometers requires a holistic approach that starts at the cell level and considers the entire context of the design,” said Max Liu, VP of SMIC Design Services Center. “With the Cadence DFM flow, we could analyze cell and IP variability and accurately model their performance in real silicon. The solution also enables near-linear scalability, which is necessary for a full-chip electrical DFM verification flow.”

[Cadence](#) has developed one of the industry’s most complete design-side DFM prevention, analysis, and signoff methodologies, including design-side optimizations with Encounter Digital Implementation System. It is also being used for variability modeling of 32- and 28-nanometer libraries. “Fast, accurate context-dependent variability modeling of cells for both lithography and stress effects is key to implementing production-worthy designs at 65 nanometers and below,” said Dr. Chi-Ping Hsu, senior vice president of research and development for the Implementation Group at Cadence. “Numerous first silicon successes have already proven the value of DFM analysis tools for high-volume semiconductor designs.”

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Taiwan OCU University and Dassault Systèmes Offer Innovative 3D Communication tool to Students

21 October 2009

Dassault Systèmes (DS) announced that Overseas Chinese University (OCU), a privately funded university in central Taiwan, has chosen [3DVIA Composer](#), a desktop application for the creation of product deliverables, to provide real-life experience in the field of engineering for students in grades 11 and 12. The OCU’s Department of Industrial Engineering & Management (IEM), along with the support of the Department of Technology and Vocational Education and the Ministry of Education, selected 3DVIA Composer because of its ease of use and ability to convey to students the importance of state-of-the-art communication.

The program will start in January and will be divided into three courses, addressing the following topics: Precision Mechanical Design, System Engineering and Innovation, Automation and Electromechanics. Led by Professor Wang Tsung-Jung, the department’s hand-selected students will use 3DVIA Composer to present their system integration ideas and plans professionally and with the ability to be exported into various widely accepted formats.

“With this new product documentation tool, our students are able to go beyond CAD capabilities and deliver quicker and more advanced projects,” said Professor Wang. “With 3DVIA Composer, students will understand how having an advanced technology can improve the product and process design while decreasing time-to-market. The department is very practice-driven and foresees that 3DVIA Composer will help students gain important hands-on experiences, thus increasing their job opportunities.”

“We are enthusiastic to support such a progressive school in its new course initiative. OCU sees the importance of empowering its students with real-world presentation and communication skills before they enter the workforce in today’s competitive environment,” said Garth Coleman, 3DVIA director of product marketing, Dassault Systèmes. “We hope OCU’s dedication to excellence in teaching, research and community services will become the standard in schools world-wide.”

About Overseas Chinese University

Overseas Chinese University (OCU) has a tradition of providing educational opportunities in a broad range of disciplines and professional fields. Integration of the latest technology throughout the college strives to create a stimulating environment in which students, faculty and staff can develop their interests, skills and talents to the fullest extent. The department of Industrial Engineering & Management (IEM) was established in August 2004. It currently employs 10 full time professors.

About SolidWizard Technology

Founded in 1997, SolidWizard Technology is a major value-added reseller of SolidWorks in Greater China. It offers complete system integrations and consultative services in seven product lines CAID, CAD, CAE, RP/RE, CAM, PDM and PM. The company has received great recognition and reputation from a larger user community and has achieved the highest market share in Greater China. The head office of SolidWizard Technology is based in Taipei. It currently has branches in eleven major cities throughout Greater China region: Hsinchu, Taichung, Tainan, Kaohsiung, Shanghai, Dongguan, Ningbo, Tianjin, Nanjing, Suzhou and Xiamen. (<http://www.swtc.com/>)

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TSMC Selects Calibre Physical Verification Platform for Integrated Sign-off Flow

22 October 2009

[Mentor Graphics Corporation](#) announced that Taiwan Semiconductor Manufacturing Company (TSMC) selected the Calibre® physical verification platform for its Integrated Sign-Off (ISO) Flow, which integrates tools, setup files, and flow management utilities to provide mutual customers with an automated design solution for implementing their chips in TSMC technologies. The new flow is now available for 65nm designs with planned extensions into other process technology nodes.

According to ST Juang, senior director of Design Infrastructure Marketing at TSMC, "Integrated Sign-Off Flow leverages our close partnership with eco-system partners to provide customers with a proven path to targeted TSMC silicon process. We include key physical verification tools from the Calibre platform in the flow, which we use ourselves for advanced designs and are now making available for our customers."

Design companies face the critical challenge of allocating scarce internal resources to validate libraries, EDA tools and design flows for each specific process node, resulting in potential delays in getting designs released to production. Recognizing the importance and need for production-quality design flows, TSMC and Mentor are addressing this issue by providing design flows that seamlessly integrate Mentor's Calibre nmDRC and Calibre nmLVS products for design rule and layout vs. schematic checking. The Calibre platform provides high performance and scalability to reduce turnaround time for the most advanced SoC designs at 65nm and beyond.

"As a close partner with TSMC, we see substantial benefits for our mutual customers by providing a complete design flow, which includes Mentor's sign-off technologies to help achieve faster turnaround, lower overall design cost, and improved manufacturability," said Joseph Sawicki, vice president and general manager for the Design-to-Silicon division at Mentor Graphics.

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Product News

Adlib Introduces PDF for SharePoint

19 October 2009

Adlib Software (Adlib), a leader in server-based document conversion, recognition and publishing, announced its new product, PDF for SharePoint. This new added-value solution for the SharePoint collaborative environment from Microsoft, delivers a comprehensive set of PDF services to extend the value of SharePoint content and improve the efficiency of business processes.

PDF for SharePoint automates the conversion of electronic documents to PDF, offering the same capabilities available in Adlib's flagship solution, Adlib Express. This server-based document transformation solution is used by many Fortune 1000 companies in industries such as life sciences, government and finance. Among its benefits are centralized management of document transformation standards in multi-departmental environments, transforming high volumes of documents, and automating document workflows through powerful background services.

In addition to rapid integration into the SharePoint environment, PDF for SharePoint speeds operational deployment via out-of-the-box SharePoint workflows that are easily configured to each customer's needs. These workflows include:

- **Convert to PDF** - converts Microsoft Office as well as hundreds of legacy document formats to PDF
- **OCR (Optical Character Recognition)** - converts image documents to text searchable PDF
- **Convert to PDF with Watermark** - adds a watermark to documents
- **Merge Documents** - merges any number of documents into a single PDF and adds a Table of Contents and page numbering.

"The power of these workflows lies in how they are easily deployed," said Scott Mackey, Director of Product Management for Adlib. "For example, CAD documents can be converted to PDF making them accessible to field operations and manufacturing. Scanned documents can be converted into searchable PDF's using the OCR workflow enabling them to be found using search. A collaborative team effort that results in multiple documents can be aggregated into a single PDF document using the Merge Documents workflow. All of these capabilities are delivered as a natural extension of the SharePoint environment."

PDF for SharePoint has evolved from close collaboration with Microsoft, Adlib customers, and integration partners. Adlib transformation technology is already included in some of the most advanced document-management solutions for SharePoint, and the PDF for SharePoint product further simplifies deployments to make this state-of-the-art solution accessible to the rapidly growing community of SharePoint partners and users.

"Adlib is a proven contributor to the Microsoft SharePoint community," said Keith Williams, CEO of Good Products, a UK-based provider of Enterprise Content Management solutions for pharmaceutical, biotechnology and medical device industries. "The integration of Adlib's PDF conversion technology into a SharePoint environment is very straightforward. After providing Adlib's technology within our g-

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docs™ solution to automatically convert different formats to PDF, we are now embedding it into our new SharePoint-based hosted service. Adlib has been an excellent partner every step of the way."

"We integrate Adlib into our solution because it's the de facto standard for regulatory submission rendering," said Ken Lownie, Vice President of Life Sciences at NextDocs, a leading provider of SharePoint regulatory document and quality management solutions for the life sciences industry. "Our customers know the Adlib brand and reputation, and Adlib fits right into the SharePoint experience our solutions deliver. It's a great supporting cast member."

For more information about PDF for SharePoint

<http://www.adlibsoftware.com/PDFSharePoint.aspx>

For more information about Adlib and NextDocs Partnership

<http://www.adlibsoftware.com/NewsNextDocs.aspx>

Availability

Adlib Software's PDF for SharePoint product is available now. For end-user organizations, the package provides configurable, pre-built rendering workflows and deployment support. For OEM technology partners, Adlib provides developer tools and integration assistance. For more information, contact Adlib at sales@adlibsoftware.com or call (866) 991-1704.

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Agilent Technologies' New Channel Simulator Mode Determines Ultralow Bit-Error-Rate in Seconds

20 October 2009

Agilent Technologies Inc. introduced a new statistical mode for its [signal integrity](#) Channel Simulator. The mode, offered as part of Agilent's [Advanced Design System \(ADS\) 2009 Update 1](#), is well suited for design and verification of high-speed, chip-to-chip data links found in most consumer and enterprise digital products produced today -- from laptop computers and data center servers, to telecommunication switching centers and Internet routers. By accelerating simulation, the new Channel Simulator mode allows manufacturers of such products to explore and arrive at an optimal design and eliminates the need for costly and time-consuming prototype iterations, improving time-to-market.

In order to select the optimum set of characteristics for a transmitter, channel and receiver, today's signal integrity engineers need to determine ultralow bit-error-rate (BER) contours for thousands of points in the design space. Traditional techniques used to accomplish this task consume a prohibitively long simulation time.

"The new statistical mode in our Channel Simulator eliminates the need for long, multimillion-bit simulations," said Colin Warwick, signal integrity product manager in Agilent's EEs of EDA organization. "Now engineers can generate eye diagrams with ultralow BER contours in just a few seconds, enabling very rapid and complete 'what if' design space exploration."

At today's multigigabit-per-second rates, high-frequency phenomena like impedance mismatch, reflections, crosstalk, skin effect and dielectric loss come into play. Agilent's Channel Simulator allows designers to perform simulations using circuit-level models that can be verified against measured data and EM simulation of the layout artwork.

"While we've used the sophisticated Transient Simulator for some time to calculate an accurate step

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response from distributed elements, combining it with the Channel Simulator's new statistical mode provides us with an even more powerful solution," said Chad Morgan, principal engineer at Tyco Electronics. "We use it for noise calculations, jitter injection and equalization optimization. Having all of these capabilities in one easy-to-use environment is exciting and allows us to quickly and easily analyze channels and push them to new speeds."

Other signal integrity enhancements featured in Agilent's Advanced Design System (ADS) 2009 Update 1, include:

- a BER contour and bathtub display;
- equalizer support with automatic tap optimization;
- an eye mask utility with automatic violation checking;
- the ability to check cross-talk with aggressors at different data rates;
- a memory bus compliance tool for the DDR3 standard;
- emitter-coupled logic models that comply with the IBIS standard; and
- a time-domain reflectometry tool.

ADS is a high-frequency, high-speed electronic design automation software platform. Recent releases of the software include new signal integrity capabilities to form the most complete signal integrity design flow for chip-to-chip links. Additional information is available at <http://www.agilent.com/find/signal-integrity>.

U.S. Pricing and Availability

The Agilent ADS 2009 Update 1 will be available this month. The new Channel Simulator mode is a capability found in Agilent's ADS Transient Convolution Simulator. Signal integrity bundles are available at a starting price of \$28,000.

For more information about ADS, visit <http://www.agilent.com/find/eesof-ads>

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ArchiCAD 13 Japanese Version Released

26 October 2009

GRAPHISOFT announced that the next local version of ArchiCAD® 13, the Japanese version is released.

The Japanese version is the 14th in the release schedule after the already released International, German, US, Australian, New Zealand, French, Italian, Austrian, Hungarian, Finnish, Russian, Norwegian and Swedish versions of ArchiCAD 13. For more information, please visit <http://www.graphisoft.co.jp>. Other localized versions will be released during the fall.

Shipping starts on the 26th of October.

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ArchiCAD 13 Spanish Version Released

21 October 2009

GRAPHISOFT announced that the next local version of ArchiCAD® 13, the Spanish version is released.

The Spanish version is the 15th in the release schedule after the already released International, German, US, Australian, New Zealand, French, Italian, Austrian, Hungarian, Finnish, Russian, Norwegian, Swedish and Japanese versions of ArchiCAD 13. For more information, please visit <http://www.archicad.es>. Other localized versions will be released during the fall.

November 5th will be marked as date to remember. More than 10 cities from both Spain and Latin America will be sharing a project through the internet. Both clients and invited guests will have firsthand experience of the BIM Server with Delta Technology and the new Teamwork II. A new era of collaboration has arrived where firms can compete without barriers and efficiency.

Shipping started on the 14th of October.

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ARM and Mentor Graphics Announce Support for Nucleus RTOS and Nucleus Graphics in the RealView Development Suite

21 October 2009

Mentor Graphics Corporation and [ARM](#) announced at ARM TechCon 3, Santa Clara, Calif., a comprehensive software development solution for Nucleus® RTOS and Nucleus Graphics on ARM® processors. This is the result of a close collaboration to develop Nucleus RTOS awareness in the ARM RealView® Development Suite and to include the RealView Compiler in the Nucleus distribution.

[Mentor Graphics](#) has adopted the RealView Compiler as the reference compiler for Nucleus RTOS and middleware, which will result in end products with even higher performance and lower memory requirements. The Nucleus and EDGE™ development kits include an evaluation version of the RealView Compiler, and Mentor Graphics will distribute a full version of the compiler as part of their product offering.

The RealView Development Suite enables a seamless evaluation of Nucleus RTOS and the Nucleus Graphics 3D GUI technology by running pre-packaged examples on its fast Real-Time System Models. RealView Debugger supports kernel-aware debugging of the Nucleus kernel and can be used to do run-mode debug of Nucleus applications. The ARM Profiler can non-intrusively analyze Nucleus applications, generating profiling reports and optimization information.

“Mentor provides leading embedded technologies for today’s advanced products, including support for Nucleus RTOS, Linux, and Android-based devices,” said John Cornish, System Design Division executive vice president and general manager, ARM. “The addition of support for Nucleus RTOS in our leading RealView Development Suite provides an optimum solution for accelerated product development and innovation.”

“The RealView Compiler is the best set of compilation tools for ARM processors and is essential to get the best performance out of Mentor’s RTOS and GUI products,” said Glenn Perry, Mentor Graphics Embedded Systems Division general manager. “Our agreement with ARM will enable customers to quickly create exciting new products to meet market needs.”

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Autodesk Announces Support for Windows 7

22 October 2009

Autodesk, Inc. has announced support for Windows 7. Effective today, Autodesk will support customers using nine products including [AutoCAD 2010](#), [AutoCAD LT 2010](#) and the [Autodesk Inventor 2010](#) family of software, on Windows 7.

For the 2010 product line, Autodesk will support nine products on Windows 7. These products are [Autodesk Inventor 2010](#), [Autodesk Inventor LT 2010](#), [AutoCAD 2010](#), [AutoCAD LT 2010](#), [AutoCAD Architecture 2010](#), [AutoCAD Electrical 2010](#), [AutoCAD Mechanical 2010](#), [AutoCAD MEP 2010](#) and [Autodesk Algor Simulation 2010](#) software. Autodesk will support Windows 7 for most of its other products as updated versions are released.

Windows 7 offers many powerful new features and functionality that will benefit Autodesk customers, including full support for 64-bit computing, Windows search and improved performance. Multi-touch support has also become a core capability of Windows 7, and Autodesk is developing new software to take advantage of this technology. At the Windows 7 media launch event, Autodesk will demonstrate [Project Cooper](#), a preview of new technology for simple drawing and drafting that has been engineered to take advantage of the multi-touch capabilities of Windows 7. The Autodesk Project Cooper Technology Preview is now available for free download at <http://www.autodesk.com/projectcooper>.

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

16 October 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 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 the most robust and user-friendly business solution ever created for the fashion and soft-goods industry. 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.

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 a 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); Warehouse

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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 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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COADE Releases TANK Version 3.20 for Designing and Analyzing Oil Storage Tanks, with API Code Updates

21 October 2009

[COADE](#) announced the release of COADE TANK Version 3.20, an updated edition of the company's software for designing and analyzing oil storage tanks that incorporates code updates in API-650 11th Edition Addendum 1, and API-653 4th Edition.

TANK incorporates full analysis and design capabilities for wall thickness, materials, supported cone roofs, seismic requirements, service and maintenance considerations, bottom plate thickness, nozzle flexibilities, shell settlement, wind girder requirements and allowable fluid heights. Also included are extensive built-in materials databases plus databases for structural steel, seismic curves and nozzle curves from current and past API specifications.

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CoCreate 16.5 Now Tightly Integrated into the PTC Product Development System

19 October 2009

PTC announced the launch of CoCreate® 16.5, the latest release of its explicit modeling software. CoCreate 16.5 is integrated with a wide range of key solutions comprising the PTC® Product Development System (PDS). With this release, PTC further expands value for customers by allowing CoCreate users to benefit from the industry's broadest and best product development system.

With CoCreate 16.5, CoCreate customers can now derive even greater value from their models and drawings through enterprise viewing and visualization, automated technical illustration creation, powerful tools for engineering calculations, advanced simulation capabilities, enterprise PLM, and more effective collaboration with teams using Pro/ENGINEER®. The CoCreate family of products is integrated with ProductView™, Arbortext® IsoDraw®, Mathcad® and Pro/ENGINEER. Companies using CoCreate Drafting™ can use the new Windchill® Workgroup Manager for CoCreate Drafting for all the benefits of enterprise PLM in a 2D environment. PTC is also introducing CoCreate Advanced Mechanica® for simulation experts.

Value for CoCreate 16.5 users includes:

- **Enterprise Viewing** – ProductView allows anyone in the enterprise to leverage the value of CoCreate models through viewing, visualization, markup and interaction with CoCreate data.
- **Technical Illustrations** – Arbortext IsoDraw helps companies automate the process of creating and updating high-quality technical illustrations and animations directly from their CoCreate models.
- **Engineering Calculations** – Mathcad helps companies easily create and document engineering-critical values for their CoCreate models, and capture the intellectual property surrounding engineering calculations.
- **Production Machining** – Users can leverage Pro/ENGINEER NC and Tooling Solutions to create simple to complex machining tool path programs from CoCreate part data. Changes made to the CAD model can be made associatively and propagated to downstream NC deliverables.
- **Effective Interoperability with Pro/ENGINEER** – Extended teams benefit from seamless collaboration by publishing their models from CoCreate Modeling 16.5 to Pro/ENGINEER Wildfire 3.0 or later.
- **Enterprise PLM for CoCreate Drafting** – The Windchill Workgroup Manager for CoCreate Drafting enables companies to optimize product development processes including gaining greater control over their CoCreate drawings.
- **New Solution for Advanced Simulation** – CoCreate Advanced Mechanica helps companies by providing extended simulation capabilities for very complex, real-life scenarios and simulation requirements and significantly improves verification and validation processes well beyond the capabilities of CoCreate FE Analysis.

“Our innovative new product is first-to-market, but that market is comprised of many different hospitals and facilities—each having a specific set of requirements,” said Joe Livengood, CEO of Livengood, makers of mobile healthcare devices. “With CoCreate 16.5 working with PTC’s best-in-class product development system, companies like ours will more easily meet those individual customer requirements and get better products to market faster. This newest release underscores PTC’s commitment to providing true value to its customers. We think it’s sensational that CoCreate is now so tightly integrated

into the PTC PDS.”

“PTC is committed to further developing and enhancing the explicit modeling approach,” said Brian Shepherd, executive vice president, product development, PTC. “We have extended value to customers by tightly integrating CoCreate solutions into the PTC Product Development System. Use of the broadened PTC portfolio helps companies better achieve their goals to design and deliver the best products faster. PTC is already working on the next CoCreate release, planned for Spring, 2010.* CoCreate 17.0 will offer innovative new features, supporting PTC’s technology leadership position and further distancing other explicit modeling contenders.”

For more information on CoCreate 16.5, please visit the CoCreate product pages on:

<http://www.ptc.com>.

*The timing of any product release, including any features or functionality, is subject to change at PTC’s discretion.

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Dassault Systèmes to Continue Full Support for CATIA V4 throughout the Coming Years

20 October 2009

Dassault Systèmes ([DS](#)) announced that the company will continue its support for CATIA Version 4 Release 2.5 until December 31st, 2011 for all customers’ current with their standard support charges.

For the past 15 years, CATIA V4 has been a major version used by many customers around the world for major industrial programs. Regulatory reasons in certain industries imply customers to maintain CATIA V4 in operations even if they have standardized with V5 and V6. Therefore, Dassault Systèmes has confirmed its decision to continue the support of CATIA V4 Release 2.5 until December 31st, 2011.

CATIA Version 4 Release 2.5 will be supported beyond December 31st, 2009 (former end of support) until the December 31st, 2011 for customers who are current with their standard support charges. The support scope will remain the same as previously experienced, except for defect management, which will be strictly limited to blocking production defects, escalated via the Critsit process. During this period, Dassault Systèmes customers will continue to benefit from Know-How enablement, and Distribution & download.

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Elmo Solutions Releases New Version of its Agni Link CAD-ERP Data Integration Solution

20 October 2009

[Elmo Solutions](#) announced it will launch a new version of its application, [Agni Link](#), which works with [Microsoft Windows® 7](#) to offer customers enhanced security, as well as innovative user interface features and reliability improvements. Agni Link is a client-server companion to CAD / PDM / PLM applications that provides real-time, bidirectional data integration with ERP systems, among which:

- Microsoft Dynamics NAV (Navision)
- Microsoft Dynamics AX (Axapta)
- Microsoft Dynamics GP (Great Plains)

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- Microsoft Dynamics SL (Solomon)
- Microsoft Dynamics CRM

This application offers a reliable way to integrate CAD, PDM, PLM and ERP data, automatically resolving discrepancies, and allowing editing of product data using possible values obtained "live" from the ERP application, thus ensuring perfect synchronization of both data sets and completely eliminating redundant data entry as well as costly errors. Agni Link clients are currently available for the following applications:

- Dassault Systemes SolidWorks
- Autodesk Inventor
- AutoCAD
- AutoCAD Electrical
- AutoCAD Mechanical
- AutoCAD Architectural
- Dassault Systemes Workgroup PDM
- Dassault Systemes Enterprise PDM
- Autodesk Vault

Agni Link can process and synchronize a wide range of product data from either environment, including:

- Bills of Materials (BoMs)
- Estimating
- Sales Quotes
- CRM data

Through extensive use of the .NET Framework, Agni Link fully leverages the enhancements brought by Microsoft Windows 7, thus significantly enhancing the ROI on each Agni Link implementation.

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Fishbowl Solutions Releases Data Integrity Tool, HPGL Compare, to Automate Pro/ENGINEER® Drawing Validation during a Migration or Upgrade to Windchill PDMLink®

22 October 2009

Fishbowl Solutions, Inc. has released HPGL Compare as an add-on to linkTuner, an out-of-the-box solution for PTC Windchill PDMLink® and Pro/INTRALINK®.

When companies upgrade to new versions of CAD and/or PDM/PLM software, some level of validation activities is best practice for ensuring that their Pro/ENGINEER data is accurate and the software still performs as intended. Validation is required for those companies looking to comply with certain FDA software validation policies, such as medical device companies. Because validation is often manual, it can take weeks or months to complete.

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HPGL Compare addresses the challenge of validating Pro/ENGINEER drawings, ensuring they are an exact match before and after a migration or upgrade. If HPGL Compare finds inconsistencies, it provides a graphical report of the changes so engineers can focus their efforts. Automating this validation process saves companies time, money and helps to mitigate risk. HPGL Compare is an add-on to Fishbowl Solutions' linkTuner, which helps companies test and validate Windchill PDMLink system performance.

With HPGL Compare a Minnesota-based medical device company migrating from Pro/INTRALINK 3.4 to Windchill PDMLink 9.1 was able to validate more than 4,000 of their Pro/ENGINEER drawings in one day, compared to the months and hundreds of man hours it would have taken to manually validate.

For more information on linkTuner and HPGL Compare, visit Fishbowl Solutions' website or contact mcadsales@fishbowl solutions.com.

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Flow Science Announces Release of FLOW-3D Version 9.4

16 October 2009

Flow Science, Inc. announces the availability of a new release of its FLOW-3D computational fluid dynamics (CFD) software. Version 9.4 of FLOW-3D offers new casting and hydraulics models, a greater breadth of modeling capabilities across a spectrum of industrial applications, and post-processing improvements for ease-of-use.

New features include:

- Core gas generation and transport model
- Multi-sediment scour and bed-load transport model
- Scour potential model
- Non-linear Stokes waves
- Temperature-dependent material properties
- Modeling moving objects fixed by springs or ropes
- New hydraulic data output
- Post-processing improvements

Go here for a more extensive [description of the **FLOW-3D 9.4** release](#).

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Informative Graphics Corporation Launches Latest Integrated SharePoint Editions of Its Brava! and Redact-It Products

19 October 2009

Informative Graphics Corporation ([IGC](#)) announced launch of both Brava!® Enterprise and Redact-It® Enterprise for Microsoft® SharePoint® 2007. SharePoint users now can access Brava's viewing and annotation capability, including integrated Term-Hit Highlighting which allows Brava to pick up search

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terms used in SharePoint and apply them to the document being viewed. SharePoint users will also benefit from Redact-It's automated intelligent electronic redaction functionality. Both editions facilitate quick, secure conversion of virtually any file, including Microsoft Word, Corel WordPerfect, AutoCAD DWG and more, to Adobe® PDF format.

According to IGC's VP of Sales Jeff Herding, "Microsoft SharePoint is a great content management and collaboration tool which is widely used among corporations and professional services firms. Integrating Brava and Redact-It into SharePoint offers universal viewing and annotation for any format directly from the Document Library, as well as interactive or automated redaction."

Brava Enterprise for SharePoint Highlights:

Term-Hit Highlighting – When users view a document returned from a SharePoint search action, Brava automatically highlights every instance of the search term and jumps to the first instance.

Annotation – While collaborating on documents in SharePoint, users can annotate documents by drawing shapes and text boxes to mark up or emphasize content. Brava's annotations do not create a new version of the document, leaving the original document untouched and simplifying version tracking.

Watermarks and Stamps – Insert stamps and watermarks into the document, even pulling in SharePoint metadata by using Dynamic Stamps.

PDF Creation – Within SharePoint, convert any file to PDF, either interactively by the user or automatically at the server level.

Document Markup Notification – In the Document Library, Brava displays a markup indicator next to documents that have been commented on (via Brava).

Redact-It Enterprise for SharePoint Highlights:

Intelligent, Secure, Electronic Redaction of Sensitive Data – Search for and redact sensitive data such as social security numbers, medical records, minors' names, etc. Redact-It electronic redactions are complete, more accurate, and can be accomplished much faster than traditional black marker/copier manual method of redaction.

Automatic Redaction – Redact-It monitors specified Document Libraries or network folders and automatically applies pre-set redaction criteria.

Brava Enterprise 6.2 and Redact-It Enterprise 6.2 for SharePoint 2007 are available immediately. Contact IGC for pricing and additional information.

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IntelliCAD Technology Consortium Members Leverage IntelliCAD® 6.6

20 October 2009

The IntelliCAD Technology Consortium (ITC) (<http://www.intellicad.org/>) announced the release of IntelliCAD 6.6, supporting newly released ITC member products with advanced graphics technology and quality enhancements.

The ITC is an organization whose member companies jointly contribute to the development of the IntelliCAD CAD platform. During the research and development of the new IntelliCAD release 6.6,

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development teams from several ITC members cooperated to design the new high performance algorithms that boost the efficiency of all member products.

"Our customers are creating and editing larger and more complex drawings." said David Carlson of Carlson Software. "In response, our engineering team worked with customers to identify and remove performance bottlenecks encountered with large IntelliCAD drawings. These improvements are built into the new Carlson 2010 release. In addition, since the IntelliCAD Technology Consortium is an open source community we were able to integrate it into the IntelliCAD R6.6 code in such a way that the products of other ITC members will benefit from this effort. This sharing of resources between members makes a lot of sense from our perspective."

When asked about this latest release, David Lorenzo, ITC Development Director, commented, "The IntelliCAD 6.6 release provides a major improvement in quality through new error reporting tools and technology we have been building over the past few years. These error reporting tools have been revolutionary in enabling us to more quickly respond to customer issues."

ITC members worldwide have been swift in integrating the new IntelliCAD 6.6 into their products. "We developed the new YellowCAD product on IntelliCAD as a professional alternative to AutoCAD LT ® for all generic 2D/3D applications," stated Jean Denis Heymann, Sales Manager at YellowCAD. "We believe that the price of technology should no longer be an obstacle to designers and draftsmen."

Customers making the switch from other CAD systems to IntelliCAD have benefitted from the new release. "For nearly 25 years, our customers have depended on MicroSurvey products to compute and draft their surveying and engineering projects," stated Darcy Detlor, CEO of Microsurvey Software, Inc. "In 2004, MicroSurvey switched to the IntelliCAD platform and today is delivering MicroSurvey CAD 2010 based on IntelliCAD R6.6. Release 6.6 represents the fastest and most reliable IntelliCAD platform yet and our customers are benefitting directly from the increased performance in reading, creating and viewing DWG drawings."

About the IntelliCAD Technology Consortium: The IntelliCAD Technology Consortium licenses the IntelliCAD technology to its commercial members, who in turn market and sell applications based on IntelliCAD to their end users. The IntelliCAD Technology Consortium is an independent organization of software developers established specifically for the development of the IntelliCAD technology. Commercial Members have access to the IntelliCAD source code, documentation, developer support, and more. For the latest ITC news and information, visit the company web site (<http://www.intellicad.org/>) or call 1-503-293-7655.

About Carlson Software. Carlson Software, an independent company founded in 1983, develops software solutions to bring land development professionals from concept to completion. The 25-year-old company is known for its civil, surveying, machine control and positioning, plus mining software solutions. (<http://www.carlsonsw.com/>)

About YellowCAD: The YellowCAD company was formed by a team of executives and developers most of whom have over 20 years experience in CAD. The YellowCAD product offers a general design solution with native DWG input and output for CAD users in architecture, construction, civil and mechanical engineering. (<http://www.yellowcad.fr/>)

About MicroSurvey: MicroSurvey Software Inc. has been developing software and hardware solutions for surveying and mapping for over twenty years. (<http://http://www.microsurvey.com/>)

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Korrigo for AutoCAD LT Instant Rebate Program

20 October 2009

First Trace, Inc. has announced a *Korrigo for AutoCAD LT* [instant rebate promotion](#) for new and existing users of AutoCAD LT™ that require an engineering document management solution. To coincide with Autodesk's current \$300 rebate program for AutoCAD LT, First Trace is also offering a \$300 instant rebate on each seat of *Korrigo for AutoCAD LT* for a discounted price of \$499 through January 15, 2010 to North American customers. This instant rebate offer allows companies using AutoCAD LT to establish a complete CAD strategy and design environment with an interoperable data management solution.

In June 2009, First Trace announced the world's first and only interoperable document management solution for AutoCAD LT with the release of *Korrigo 4.1*. *Korrigo for AutoCAD LT* builds upon that foundation even more aggressive pricing further amplified with the new instant rebate promotion. Autodesk is also currently running a \$300 rebate program for purchases of AutoCAD LT through January 15, 2010.

"By aligning our instant rebate promotion with Autodesk's current rebate program, our engineering customers can develop a comprehensive CAD environment at unprecedented pricing for less than \$1400," said Terry Simpson, President and CEO of First Trace. "Our *Korrigo for AutoCAD LT* engineering data management solution provides engineers multiple ways to control their complex CAD files and eliminate documentation errors."

Since AutoCAD LT was first delivered there has never been a file management solution available for LT users; not even from Autodesk. *Korrigo for AutoCAD LT* is an engineering document management software solution that offers support for AutoCAD LT 2007 – 2010.

For more information about *Korrigo for AutoCAD LT*, how it can streamline engineering document management for rapid ROI, and this limited time offer visit <http://www.firsttrace.com/product-korrigo-autocad-lt.jsp>.

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Kubotek Announces New Features and Pre-Release Pricing for KeyCreator Version 9

21 October 2009

Kubotek USA provides a preview of its upcoming KeyCreator Version 9 release. Significant architectural changes in KeyCreator's technology have resulted in major enhancements in the day-to-day use of the software, including substantial performance increases when working with large and complex files. These [3D Direct Modeling](#) improvements make modeling operations with complex solids more efficient. Files with large numbers of entities perform better, as well.

More explicit transformation capabilities have also been added, including the ability to dynamically deform curves, copy and move entities with Kubotek's exclusive DynaHandle 3D Direct Editing Handle. KeyCreator Version 9 will also fuse its direct modeling technology with newly added mating constraint capabilities. The inclusion of the mating constraints will give users the ability to control and constrain models only when, and for long as, it is needed. This control, together with the enhanced Dimension Driven Editing and existing [Face Logic technology](#), gives KeyCreator users flexibility to work with freedom and control.

This blend of both design traditional and direct modeling technology will give users flexibility and

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precision in a unified design environment where only one file embeds all modeling information. Companies that rely on rapid manufacturing and prototyping, custom machining and tooling or who just need to produce custom designs quickly will find that KeyCreator's Direct Modeling is the preferred method. Others will be able to take advantage of the constraining technology when it is the best choice.

Naotake Kakishita, President and CEO, Kubotek USA best sums up the work delivered in the KeyCreator Version 9 release. He stated, "We believe some of the enhancements that we have implemented in this version of KeyCreator and future planned improvements will make KeyCreator the fastest 3D CAD modeler on the market."

Jim Gordon, Vice President of Development, Kubotek USA adds, "We work with many different types of files from different CAD packages. These files continue to get larger and more complex. This is pushing us to make our software perform better and faster. This major breakthrough in our technology is just the beginning of the speed increases that our customers will see as we continue to re-architect our underlying KeyCreator technology."

As a gesture of how strongly Kubotek feels about KeyCreator Version 9, a special pre-release price will be offered. Effective immediately, new licenses of KeyCreator will be sold at \$2,995, a \$700 discount. Customers will receive version 8.5 today and this price includes three months of maintenance that begins with the shipment of version 9. More information about this [pre-release special](#) can be found online. [Upgrade specials](#) are also available. Prices are effective through December 31, 2009.

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Lectra Launches the New Version of the Only Fashion-Specific PLM Solution on the Market: Lectra Fashion PLM V2R1

22 October 2009

Lectra announced the launch of Lectra Fashion PLM V2R1, the latest version of its state-of-the-art product lifecycle management solution for the fashion industry.

Lectra Fashion PLM V2R1 is a modular and scalable solution, tailored specifically to the needs of the fashion industry, with in-built best practices developed throughout Lectra's years of work with the biggest names in fashion. "With its solution for streamlining the complex business of collection management, Lectra is the ideal technology partner for fashion companies looking to enhance their productivity and their competitiveness," said Mario Boselli, President of the Camera Nazionale della Moda Italiana (National Chamber of Italian Fashion, CNMI).

This process-oriented offer incorporates tools for all the activities and processes involved in the business of bringing a collection to market. Lectra Fashion PLM V2R1 includes modules for line planning, scheduling, costing, sourcing and performance monitoring, created with strategic decision makers in mind, and also process-based applications for fashion design, technical specifications, pattern-making, 3D prototyping and sample development. This fully modular and adaptable offer fulfills the needs of brands, retailers and garment manufacturers of all types and sizes.

A major breakthrough in PLM technology

Lectra Fashion PLM V2R1 takes a huge leap forward by integrating fashion design tools and product development functions with end-to-end collection management features. Going further than any other PLM solution on the market, the V2R1 brings contributors together around "one version of the truth." Users can share season palettes, pattern design data, and measurements charts across the entire range of

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Lectra Fashion PLM applications, thus securing data and eliminating the risk of errors. Having a single information center saves time on data entry, facilitates communication, and helps maintain quality standards.

Prominent Europe, for example, specializes in men's shirts and formal wear and has recently expanded into casual wear and women's wear. The UK-based company produces approximately 17 million garments a year and manages up to 2,000 customer contracts. It was looking for an international system to work across different languages, maintain its exemplary delivery record, and move the business towards an "at once" manufacturing system. "Lectra Fashion PLM V2R1 will allow us to speed up our processes," said Nigel Lugg, Chief Executive of Prominent Europe. "It will link our three European offices in Spain, France and the UK, and will allow us to collaborate directly with six key Asian hubs: India, Shanghai, Hong Kong, Vietnam, Bangladesh and Thailand. Lectra's key strength is its high degree of fashion experience, which links into a global business network."

Enhanced workflow management features within Lectra Fashion PLM V2R1 guarantee optimal planning and control of product lifecycle processes, activities and deliverables for both users and managers. Product development status and workflow management milestones are synchronized, and workflow management follows product development progress—not the reverse. This flexible workflow system, unique among PLM solutions, now enables each fashion company to adapt the order of tasks and progress flowcharts to their individual working methods, making it easy and comfortable to use.

Lectra Fashion PLM V2R1 offers fashion professionals a shared information space with a number of features that facilitate close collaboration within and between teams. Improved notification features ensure that key participants in the collection development process are kept up to date regarding changes made along the value chain. An innovative mark-up tool provides creative and technical teams alike with powerful tools for visual communication, enabling users to "grab" designs of all kinds and annotate them for modifications. Also included in V2R1 is a plug-in option to save and classify sketches directly from Adobe® Illustrator® CS3/4 directly into Lectra Fashion PLM. These sketches are then not only shared throughout the design and development process but can also be modified, filled with colors and fabrics and used to create boards and other communication tools. Easy and efficient collaboration speeds up the accurate exchange of ideas, eliminates the risk of error, and freeing up time for creative work.

"At Une Nana Cool, it is very important for us to continually propose attractive concepts and designs—we aim to encourage young women to enjoy simple, fashionable, high-quality lingerie, the way they enjoy choosing outer garments," said Akiyuki Ueno, President of Une Nana Cool, a subsidiary of Wacoal, worldwide lingerie leader headquartered in Kyoto, Japan. "Up until now, our designers have spent half of their time on operational tasks and on coordination with other team members. With Lectra Fashion PLM V2R1, our designers will be able to spend more time on creative tasks such as concept development and design—this will really strengthen our competitive advantage."

Revolutionizing PLM: modular and scalable software and services

For customers looking for a speedy return on investment, Lectra Fashion PLM V2R1 can be implemented with Lectra's new Easy Start approach. This offers pre-configured contributor roles such as designer, product specifications developer, pattern maker, quality controller, sourcer, product manager/merchandiser. Users are quickly operational and efficient thanks to pre-defined user rights and requirements and role-specific training. As the solution is totally scalable, a project that begins with an Easy Start implementation can easily grow and become personalized for the user company and their specific needs. This flexible system allows fashion companies to integrate their own best practices into the system and adapt it to their methods. Change management is thus accelerated and users are quickly

at ease with the system.

In order to provide the best possible support for their customers, Lectra's fashion PLM experts offer rigorous assessments of company processes, carried out within a specialized pre-study—fundamental to successful implementation. Lectra also offers customers a value assessment that takes the quantitative evaluation even further, using a methodology that provides a framework in which to establish the likely value of a Lectra Fashion PLM implementation, along with the return on investment the customer can expect. As part of Lectra's continuing commitment to customer care, both PLM software and services are entirely tailored to meet the needs of the fashion industry and the needs of each individual customer to ensure that every Lectra Fashion PLM project is a perfect fit.

“We have been impressed by the service received from Lectra. The attitude of their team is always positive and we have really felt supported in our implementation of this advanced technology. Lectra's fashion experts really know our sector and understand our challenges. When our processes change and develop, we will be able to capitalize on their experience and knowledge of best practices,” said Vincenzo Gamberale, Global IT Coordinator, Arena Group, leading-edge Italian waterwear producer.

For more information on Lectra Fashion PLM, visit: http://www.lectra.com/en/fashion_plm.

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NEi Software Partners with MAESTRO to Reduce Analysis Time and Costs for the Shipbuilding Industry

20 October 2009

NEi Software has joined forces with DRS, the worldwide distributors of MAESTRO in order to better serve the shipbuilding industry by streamlining the process of global/local hull analysis. MAESTRO has long been known as a standard for global full ship structural Finite Element Analysis (FEA), while NEi Software is used extensively for local (or fine-mesh) analysis by both the defense and commercial segments of the shipbuilding industry. These two technologies are now used to execute a bi-directional coupling that facilitates the iterative global/local analysis process. By means of this partnership, the naval architect can perform MAESTRO global analysis and pass those results to NEi Nastran for detailed/local analysis. Additionally, local analyses, done completely in NEi Nastran, can be merged with MAESTRO models in order to expedite the process. Customers can expect more efficient designs and analyses of their structural design, significantly reducing development time costs.

NEi is now an authorized reseller of MAESTRO in the USA. The combined capabilities of MAESTRO and NEi Nastran will be exhibited at SAVIAC's [80th Shock & Vibration Symposium](#) in San Diego October 25-29.

For more information visit <http://www.NEiSoftware.com>

About DRS

DRS is the exclusive master-distributor and developer of MAESTRO, a design tool specifically tailored to suit naval architects and their global Finite Element Analysis and limit-state (failure mode) evaluation needs. MAESTRO combines rapid coarse-mesh structural modeling, ship-based loading, Finite Element Analysis, limit-state evaluation, and post-processing, all in a single Windows-based graphical user interface. MAESTRO is wholly-owned by Optimum Design, Inc.

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Nemetschek North America Releases First Service Pack for the Vectorworks 2010 Product Line

20 October 2009

Nemetschek North America has released its first Service Pack for the Vectorworks® 2010 product line. While addressing issues with wall joining and the snap loupe in particular, this Service Pack has also improved the overall stability and performance of the package.

"Early feedback from our customers indicates that the initial release of Vectorworks 2010 was of very good quality," says Mark Farnan, Director of Software Development at Nemetschek North America. "We traditionally create a Service Pack for our international localizers about a month after our initial release, and this gives us a great opportunity to fix any problems reported by early adopters."

Currently, this Service Pack is available for all licenses as a downloadable updater. To install the Service Pack, go to the About Vectorworks dialog box in the Vectorworks 2010 application and click Check for Updates.

The 2010 release of the Vectorworks line of design software was released on September 15, 2009 and included: Designer, Architect, Landmark, Spotlight, Machine Design, Fundamentals, and Renderworks™.

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.

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 3D Information Modeling Tools Speed Road Rehab Work Funded by American Recovery and Reinvestment Act

19 October 2009

Bentley Systems, Incorporated announced the availability by year's end of new 3D information modeling tools for road rehabilitation work in its [InRoads](#), [GEOPAK](#), and [MXROAD V8i](#) (SELECTseries 1) products. The tools are included in the software's Roadway Designer 3D parametric modeling capabilities, which allow interactive design and review in a synchronized viewing environment. Unveiled at the recent International Highway Engineering Exchange Program Conference, the enhanced Roadway Designer empowers engineers to cost-effectively respond to road rehabilitation projects funded through the American Recovery and Reinvestment Act (ARRA). These projects, as reported in the Aug. 12, 2009, issue of *Engineering News-Record*, represent approximately 75 percent of the \$16.8 billion in ARRA highway funding that had been obligated as of July 17. Engineering teams doing road and bridge rehabilitation work can use the new capabilities in Roadway Designer to facilitate on-time, on-budget project delivery. Moreover, because the new tools are well suited for projects relying on the newest construction technologies, teams can take advantage of the workflow efficiencies they provide even when deploying innovative techniques such as automated machine guidance.

Ron Gant, Bentley global marketing director, said, "These new information modeling tools further

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expand Bentley's broad range of solutions and products for sustaining transportation infrastructure, which address the entire design-build-operate lifecycle. The many advantages our civil engineering software affords today's project teams include the ability to extensively reuse design data during construction, to work efficiently and collaboratively, and to interface with equipment employing automated machine control."

Gant continued, "These advantages reduce construction-site costs, as well as costs due to engineering change orders, speed time to construction, and increase profitability. Moreover, they enable project teams to deliver intelligent infrastructure that, in terms of quality, safety, energy, lifecycle costing, and operational efficiency, is better performing and more sustainable."

The new capabilities in Roadway Designer underscore Bentley's long-standing commitment to provide users a recurring stream of development enhancements further supporting complete and intelligent 3D models. Specifically, new overlay tools provide smart modeling, which takes into account existing 3D survey data, maximum/minimum overlay specifications, and cross slope or superelevation design requirements, while reducing expensive grinding requirements – to create optimized resurfacing, widening, or rehabilitation projects. The end result is a complete model that utilizes existing design and maintenance information.

Additional enhancements in the SELECTseries 1 updates include innovative data acquisition, geometry, visualization, and clash detection capabilities. The latter is facilitated by Bentley's newly introduced i-model, a container for open infrastructure information exchange. A key characteristic of an i-model is "provenance": knowledge of its origin and evolution – its change management history. More details about the many value additions to Bentley's civil engineering SELECTseries 1 products will be forthcoming with the release of the software later this year.

Professional training on the tools in InRoads and GEOPAK V8i (SELECTseries 1) noted above is being offered this week at the 2009 Bentley Roads and Bridges Conference.

About the 2009 Bentley Roads and Bridges Conference

The 2009 Bentley Roads and Bridges Conference is taking place this week in Charlotte, N.C., at the Omni Charlotte Hotel. This joint conference for InRoads and GEOPAK users provides a convenient opportunity for infrastructure professionals to increase their knowledge of Bentley software and refine their technical skills. Those who take advantage of this training earn Bentley Institute Learning Units for each conference workshop attended.

The conference features more than 150 hours of sessions and workshops for both new and experienced users of InRoads, GEOPAK, LEAP Bridge, RM Bridge, Haestad Methods, and other Bentley civil engineering software. It also provides a host of networking opportunities to help attendees gain insight into cutting-edge engineering functionality and best practices. For additional information about the conference, visit www.bentley.com/RBC.

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ShapeSpace 3D Search Capability for Enterprise Open Source PLM Software from Aras

22 October 2009

[Aras](#)® announced that ShapeSpace and AESSiS have entered into a collaboration agreement to enhance the 3D search and attribute search capability in the PLM (Product Lifecycle Management) application market by developing an integration between the ShapeSpace PartBrowser Enterprise solution and the

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enterprise open source PLM solution, Aras Innovator.

Both the integration and an advanced text search version of ShapeSpace PartBrowser will be made freely available as an Aras community solution in December 2009. There will also be an option to upgrade to the advanced 3D search capabilities of ShapeSpace PartBrowser. For the first time, this will put advanced and affordable 3D search capabilities into the hands of organizations giving them the opportunity to improve part reuse, reduce the part number counts, aggregate and consolidate bought in parts and drastically reduce external spend.

To coincide with the release, AESSiS and ShapeSpace have developed a strategic part communization and reuse service that delivers significant reductions in material spend at engineering firms. This service leverages the advanced PLM capabilities of Aras Innovator together with the 3D geometric search technology from ShapeSpace that automatically generates 'geometric signatures' for 3D CAD models.

The service delivers significant reductions in material spend and a comprehensive parts database of classified components so that, in future, engineers are able to browse and search by shape or attribute for components and reuse opportunities.

Andy Sherlock CEO Shapesspace said, "I am delighted that AESSiS has chosen to work with ShapeSpace to integrate cost cutting techniques which can be applied right at the front of the PLM process. We're also excited to be part of the enterprise open source revolution that is sweeping through the PLM industry and is led by Aras."

"ShapeSpace adds significant value to the PLM chain and by working together to link PartBrowser Enterprise capabilities with other PLM solutions and technologies like Aras, AESSiS can offer even greater value to its customers," said James Byrne, CTO of AESSiS.

To find out more about AESSiS & ShapeSpace products and services download the factsheet at <http://plmportal.co.uk/PartReuseGetPaper.aspx>

About ShapeSpace

ShapeSpace (<http://www.shapespace.com>) is committed to the development of world-leading search technology for CAD and PLM. Built on a strong background in information retrieval, geometric reasoning and visualization, the company's search software and consultancy service helps engineering companies reduce costs by increasing design reuse and improving part management through the identification of duplicate components and the rationalization of parts libraries. For more information, visit www.shapespace.com or www.partbrowser.com

About AESSiS

AESSiS are an integrated PLM service provider and are global leaders in helping organisations build world class engineering processes and then streamlining and automating these processes by careful implementation of appropriate product lifecycle management or PLM technologies. In so doing AESSiS help organisations chart their course and find a reliable way through to simplicity, speed and profitability that are so often promised but so rarely fully attained. For more information, visit <http://www.aessis.com>



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Siemens PLM Software and Tata Consultancy Services Announce Next Generation Softlines, Hardlines and Footwear Out-Of-The-Box Solution for “On-Trend, On-Time” Execution

19 October 2009

[Siemens PLM Software](#) and Tata Consultancy Services (TCS), a leading IT services, business solutions and outsourcing organization, launched a comprehensive software offering for [softlines, hardlines and footwear \(SH&F\)](#) manufacturers and retailers based on the unified PLM architecture of Teamcenter® software.

Teamcenter for SH&F, co-developed by Siemens PLM Software and TCS, delivers a user-friendly solution that is ready to use “out-of-the-box” to help retailers and manufacturers increase speed-to-market and reduce costs by streamlining processes and workflow management; enhancing communication and collaboration; and increasing visibility on a global scale.

This next generation product set is based on Teamcenter 8 ([see separate release](#)), the latest release of Teamcenter, which focuses on individual, application and IT productivity. With Teamcenter as a single source of product and process knowledge, individuals and teams can be more productive around-the-clock and from anywhere in the world.

TCS’ retail industry domain knowledge and solution development experience coupled with its system integration capabilities and channel relationships makes it an instrumental partner in the development of this solution. TCS’ Engineering and Industrial Services business unit helps customers across the world focus on developing and bringing innovative and efficient products to market faster.

“Dynamic trends, short lifecycles, and economic pressures require fast fashion companies to pay close attention to their business processes and technology infrastructure. Responding to trends through complex global supply chains requires that today’s leaders possess software that enables secure, real-time collaboration founded upon a single product data management infrastructure,” said Will Duncan, VP of Industry Services at [TC]², an association that promotes effective technology adoption in the global apparel and footwear industry. “Siemens PLM Software and TCS understand the challenges faced by fast fashion companies and have delivered a comprehensive solution that will help our members ensure their new lines are on time to market and reflect current trends.”

“Companies that produce hardlines, footwear, apparel and general softlines, whether they are manufacturers with broadly-offered brands or retailers with private brands, face the complex challenge of delivering the right styles to market at just the right time, and doing that many times per year,” said Dan Staresinic, senior director, consumer products, retail and life sciences, Siemens PLM Software. “This pervasive need for on-trend, on-time execution has underpinned the planning and development of our new, out-of-the-box software offering for these companies.”

Collaborative Line Planning and Calendar Management

On-trend, on-time execution begins with efficient style development and line planning and must be supported with a consistent approach to calendar management. Teamcenter for SH&F addresses these needs through powerful ready to use dashboards that are easily configurable by the user. Nested and master calendars significantly increase the automation and accuracy of the calendar management process. Slotted line plans give category merchandise leaders the ability to drive a line to achieve specific, global objectives across any number of sub-lines. Users will experience an intuitive interface that has been designed by industry experts and greater productivity through fewer mouse clicks to complete tasks. Furthermore, the Teamcenter for SH&F dashboard provides line owners with continuous

visibility to their line metrics throughout the planning process.

Integrated Specification Development

Time and resources are wasted when product specifications are developed across disparate systems. A single source of product and process knowledge enables Teamcenter users to execute the specification development process in less time and with fewer errors. Robust capabilities for artwork and pitchsheet/pattern development, color, fabric and trim management, lab dip tracking and sample management, costing/bill of materials management, reporting and forecasting, and 2D/3D markup all contribute to a more productive and effective specification development process.

Sourcing and Global Collaboration

SH&F companies are typified by complex, global supply chains, including many sources of materials and contract production. Siemens PLM Software's new offering provides integrated supplier relationship management including highly automated RFx generation and evaluation. The ability to take specifications digitally from the platform and securely, rapidly and accurately distribute them to the global vendor community, enables improved due date performance and reduced vendor-related costs.

Microsoft® Integration

Most SH&F companies utilize desktop software to execute various design and planning activities. These companies will be able to use the familiar Microsoft Outlook®, Word and Excel® applications as “live” user interfaces to the Teamcenter platform that will hold all of their styles, line plans, calendars and specifications. With the release of Teamcenter 8, a Teamcenter “ribbon” is added to the Microsoft Office™ toolbar, making it easy to interact with product information and workflows directly from within Word, Excel, Outlook and PowerPoint®.

“Siemens PLM Software continues to expand and enhance its list of robust industry specific solutions that create real value through out-of-the-box functionality,” said Paul Vogel, executive vice president, Global Sales and Services, Siemens PLM Software. “Teamcenter for SH&F was developed in close partnership with TCS to support the specific needs of our customers in this industry, while also providing the scalability, low cost of ownership, and overall IT performance that are intrinsic to the Teamcenter platform.”

In a strategic alliance for more than two decades, TCS has partnered at various levels with Siemens PLM Software to offer best-in-class consulting and implementation services to its customers. TCS' well established PLM competencies drive global PLM transformation programs within industries and geographies effectively.

“TCS understands the challenges faced by the fashion and apparel industry and provides technology solutions that help them enhance customer responsiveness and introduce new products faster. Teamcenter for SH&F provides the integrated solution to the industry to address the challenges,” said Pratik Pal, Global Head of Retail and Distribution, TCS.

“We continue to create value for our customers through fully integrated industry solutions that help manufacturers remain competitive and achieve operational excellence,” said Regu Ayyaswamy, vice president, Engineering and Industrial Services, TCS. “Teamcenter for SH&F is a pioneering solution that caters to the needs of the growing global retail, apparel and soft goods market. It encapsulates predefined templates and processes of retail industry thus making it easy to deploy and reliable to use.”

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Siemens PLM Software's JT Documentation is World's First ISO Specification for 3D Visualization in PLM Domain

19 October 2009

[Siemens PLM Software](#) announced that the detailed and comprehensive document describing the JT™ data format, the PLM industry's widely used 3D visualization format, has been accepted by the ISO (International Organization for Standardization) body responsible for Industrial Data through a global ballot process. This event marks the availability of the world's first ISO publication for 3D visualization in the PLM domain.

Due to its wide adoption throughout the PLM industry, the lightweight JT data format has been used by companies for over a decade to share and visualize 3D product data worldwide and among a wide variety of CAD and PLM applications. The official ISO recognition being announced today further reinforces the open nature of JT and facilitates even greater global proliferation of this widely accepted 3D format.

"Today's announcement is a landmark event for manufacturers all over the world," said Bruce Feldt, vice president of Open Tools, Siemens PLM Software. "Any company working with 3D digital product data in a heterogeneous environment requiring interoperability between internal departments or with external suppliers and partners can benefit from the use of JT. And now that its documentation has become an official ISO publication, JT is reinforced as the benchmark for openness in the PLM domain, paving the way for virtually any manufacturer to adopt JT as their common enterprise format for 3D workflows and long term data retention."

Developed by Siemens PLM Software, JT is a widely used 3D data format for accurately, securely and efficiently sharing product information among multiple organizations and throughout an entire supply chain. JT is supported by the [JT Open Program](#), a global initiative, established by Siemens PLM Software at the request of its customers, to promote the development and proliferation of JT as the common 3D language for PLM.

"Maintaining a multi-CAD environment is beneficial for us because it enables us to harness best-of-breed technologies in both automotive design and manufacturing," said Abhay Tarnekar, Program Manager, Digital Product Development Systems, Tata Motors. "However, incompatibility between the various data formats created a challenge in disseminating our design-based intellectual property (IP). By leveraging the broad acceptance of the JT data format, we have been able to overcome this challenge and share our design IP across various downstream agencies. Now, with ISO acceptance of the JT reference document, the path is clear for all ISVs (independent software vendors) to adopt JT, benefiting all stake holders in IP creation and usage."

With today's announcement, the *JT File Format Reference* was accepted by the International Organization for Standardization (ISO) as a publicly available specification (PAS) for 3D visualization. The *JT File Format Reference* is a comprehensive document of over 400 pages that describe the JT file format in detail, from a complete description of its file structure and data segments, to a thorough discussion of JT data compression, encoding and best practices.

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SmartCAM V16.5 Features Solids Machining for Turning Collaboration

22 October 2009

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SmartCAMcnc announced the field test release of SmartCAM® V16.5. Version 16.5 delivers new features, enhancements and capabilities to the SmartCAM suite of computer-aided manufacturing (CAM) system software, including automated turning toolpath created directly from a solid model, as well as solid model verification and usability improvements.

The SmartCAM product family consists of applications for Computer-Numerical Control (CNC) milling, turning, fabrication and wire EDM. Version 16.5 continues the solids-machining theme found in the many recent releases, and adds significant improvements for the everyday use of solid data in SmartCAM.

“Following directly on our recent addition of prismatic milling of solids in our advanced products, we now are introducing solid machining capabilities to SmartCAM Advanced Turning,” said Doug Oliver, Senior Product Manager at SmartCAMcnc. “These new automated toolpath-creation capabilities provide SmartCAM Turning customers a dramatic improvement in productivity, and we are confident our customers will find them very useful.”

These new processes allow the SmartCAM Advanced Turning user to easily create roughing, semi-finishing and finishing toolpath directly from the surfaces of a solid model **in a single step**. The roughing options are: linear roughing, contour roughing and groove roughing; the semi-finishing and finishing toolpath are created using the profile process.

SmartCAM V16.5 also provides a variety of core improvements that make it easier to work with solids data, and for making the everyday use of SmartCAM faster and more straightforward. These core improvements include:

- New pop-up menus for Step and Layer lists

- New radial slice of solids

- Single click choosing of profile and tangent surfaces

- Graphical display of conic centers for wireframe arcs, ellipses and helices, as well as for surface cones, spheres and torus

- Surface conic center snapping, and optional projection of cursor coordinates to model surfaces

- Improved Element Data Display and Measurement

“These core improvements provide benefits in two ways. One, they make working with solids and solid data easier, and two, they help streamline the user interface for common programming tasks,” Douglas went on to say. “These changes will make all SmartCAM users more productive, regardless of the product or data type.”

Another change that users will enjoy is found in the ShowCut® verification module that allows complex verification stock and fixturing to be easily created from an ACIS solid or STL model. ShowCut® verification is included with all SmartCAM milling and turning applications.

Other changes help ensure SmartCAM’s compatibility with the current popular CAD systems:

- Updates of the optional SmartCAM Inventor Connection data translator for Autodesk Inventor 2010

- Updates of the optional SmartCAM SolidWorks Connection data translator for SolidWorks 2009

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Update of the ACIS solids kernel to R20SP1

STL files can now be directly imported to, and exported from SmartCAM

About SmartCAM & SmartCAMcnc

The SmartCAM family of computer-aided manufacturing software provides toolpath modeling and CNC programming for prismatic production work to complex molds, dies, and prototypes. SmartCAMcnc provides affordable maintenance contracts, updates, upgrades and technical support for all SmartCAM users, regardless of version. All SmartCAM products include updated data translators and market-leading NC editing software from Predator Software, Inc (www.predator-software.com).

SmartCAMcnc is a Springfield, Oregon-based company that was established in December 2003 to develop, sell and support SmartCAM for the benefit of its worldwide customer base of over 12,000 companies in 63 countries. The company has successfully delivered at least two major releases of the software each year since then.

To monitor further developments please visit www.SmartCAMcnc.com.

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STARC and Cadence Collaborate to Develop Next-Generation Analog/Mixed-Signal Reference Flow

19 October 2009

[Cadence Design Systems, Inc.](#) announced that it will collaborate with STARC to develop the Japanese electronic design consortium's next-generation analog/mixed-signal reference flow. Cadence and STARC will use Cadence® Virtuoso® IC 6.1 technology as the platform for developing the STARCAD-AMS flow.

STARC is a consortium made up of 10 electronics companies, six of whom participate in the areas of analog and mixed-signal design. One of STARC's key roles is to validate and support the best design flow for client companies, and members stated that they selected Cadence for the flow project because Virtuoso IC 6.1 technology met STARC's strict criteria. STARC previously built its reference flow for digital designs on the Cadence Encounter® Digital Implementation System. This new project represents STARC's first reference flow for analog/mixed-signal designs.

“We are excited to work with Cadence on our analog/mixed-signal reference flow,” said Yoshio Okamura, vice president of STARC's Development Department-2. “The members of STARC agreed that Cadence was the obvious choice for this collaboration, and we're anticipating results that will be just as helpful to our customers as the digital design flow we developed with Cadence.”

The new reference flow will be introduced at client companies as STARC's standard design flow, delivering a comprehensive analog/mixed-signal environment and the potential for greater productivity and improved quality of results. Cadence will continuously provide STARC the best technology in the Virtuoso platform to help the consortium's client companies win in their highly competitive markets.

The new flow will support more advanced custom design techniques, including both schematic and constraint-driven layout and process variations to enable users to build more manufacturing-robust designs. These custom blocks can then be implemented and verified within larger SoCs.

“We are very proud that, having previously selected Cadence for our reference flow for digital designs, STARC now chose Cadence to team with on this important analog/mixed-signal project,” said Chi-Ping

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Hsu, senior vice president, Research and Development in the Cadence Implementation Group. "STARC customers will be well-served by the reference flow we're designing with our latest Virtuoso technology. We look forward to helping make STARCAD-AMS an extremely successful and valuable project."

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Synopsys Enables Optimized High-Performance Energy-Efficient ARM Processor-based Designs

20 October 2009

[Synopsys, Inc.](#) announced that it has created an optimized reference implementation methodology for the ARM® Cortex™-A8 processor that achieves greater than 2GHz (4000 DMIPS) at 540mW. This result was accomplished by combining optimized methodology, tools and ARM Physical IP to enable new classes of mobile and tethered devices requiring the combination of high-performance and energy efficiency.

Synopsys and ARM have collaborated in a series of implementation case studies across methodologies, libraries and process technologies targeted at increased performance of a fully automated synthesizable ARM Cortex-A8 processor. To achieve optimized results, the Synopsys team used the Synopsys Galaxy™ Implementation Platform, including some of the latest 2009.06 Design Compiler Graphical, IC Compiler, StarRC™ and PrimeTime® SI capabilities, ARM Physical IP libraries and memories for a 40nm foundry process together with highly tuned floorplan and design constraints. The ARM Cortex-A8 processor optimized implementation achieved greater than 2GHz in the typical corner on a 40nm process while consuming .24mW/MHz dynamic power and 57mW static power using less than 2% LVt cells.

The implementation team at Synopsys took advantage of the latest capabilities in the Galaxy Platform, including: library subset usage scenarios, delay performance versus cell area tradeoffs, cell placement density versus floorplan dimension tuning, leakage optimization techniques, multi-corner multi-mode (MCM) optimization for better timing correlation and signoff optimization between IC Compiler and Prime Time, as well as the usage of the latest clock tree synthesis capabilities together with intelligent user clock constraints. The Galaxy Platform is a key component of Synopsys' Eclipse™ Low Power Solution and the Lynx Design System.

"Our collaboration with Synopsys will enable our licensees to achieve the kind of high-performance they need while preserving energy efficiency to be competitive in their marketplace," said Eric Schorn, VP marketing, Processor Division, ARM. "This optimized reference implementation methodology combined with ARM Physical IP will enable our partners to introduce more compelling ARM processor-based mobile and consumer products."

Synopsys is continuing to apply this optimized methodology used on the ARM Cortex-A8 processor to additional ARM Cortex processors. To learn about these optimized implementations, attend the ARM TechCon3 conference at the Santa Clara Convention Center, Santa Clara, Calif. on October 21-23 2009, where the Synopsys implementation team will present their latest ARM Cortex-A8 and ARM Cortex-A9 processor optimized implementation methodologies and results.

"The latest results of our collaboration with ARM enable designers to take maximum advantage of the Galaxy Implementation Platform on designs using leading-edge ARM Cortex processor cores and Physical IP," said Dr. Antun Domic, senior vice president and general manager, Implementation group at Synopsys. "By making this methodology available through the Lynx Design System, we will help

customers to achieve the lowest cost of design and fastest time-to-market for their next generation mobile SoC designs."

Availability

The Synopsys Galaxy Implementation Platform methodology (scripts and documentation) for the 2GHz ARM Cortex-A8 optimized implementation is available from ARM and Synopsys. In addition, Synopsys offers complementary professional services to introduce advanced design methodology as well as high-performance/low-power SoC design techniques, including integration of advanced ARM Cortex family processors. The synthesizable Cortex-A8 and Cortex-A9 processors and optimized physical IP platform are available from ARM. ARM 40nm libraries are available on ARM DesignStart™ @ <http://designstart.arm.com/>

Galaxy Implementation Platform

The Galaxy Implementation Platform is a comprehensive solution for cell-based and custom IC implementation. Galaxy accepts design intent in industry standard formats and generates a production-ready IC design in GDSII format. Galaxy RTL and physical implementation concurrently balance design constraints by performing intelligent tradeoffs between speed, area, power, test and manufacturability. Galaxy signoff engines accurately model complex physical interactions to ensure signal and power integrity. Coherent algorithms for parasitic extraction and timing produce correlated results.

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Zuken Announces S-Parameter Support for SI Analysis

22 October 2009

Zuken recently announced the support of S-Parameter based circuit models within the latest version of its high-speed design and verification environment [CR-5000 Lightning](#). This major enhancement extends the capabilities of SI simulation to include a whole range of new application areas and simplifies the process for layout engineers unfamiliar with S-Parameter based modelling.

To analyse high-speed signals in applications featuring DDR2/3 or USB technology, accurate models for components such as common-mode filters, baluns, and connectors are required. At today's bit rates, simple RLC models of such components are no longer appropriate. Accurate simulation at frequencies into the multi-gigahertz range is required, using models that reveal the minimum amount of information about the internal component structure.

S-Parameters, a behavioural concept well known in radio frequency design, are ideally suited for this purpose. They represent the transmission and reflection behaviour of waves at specific frequencies, using industry standard formats such as Touchstone, which has also been adopted by IBIS (I/O Buffer Information Specification).

The signal integrity (SI) analysis within CR-5000 Lightning is performed by time-domain simulation that works in conjunction with design capture and physical layout. Therefore the frequency domain S-Parameter models are first transformed into compatible macro-models which are then imported into the simulation library. The transformation is only done once and the resulting model can be used for SI verification without the need for any detailed knowledge of the original S-Parameter set. This provides an easy-to-use flow to layout engineers, who may not be familiar with S-Parameter based modelling.

For the implementation of this new functionality, Zuken has teamed up with IdemWorks s.r.l., Italy.

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This high-tech start-up is well known for its competence in S-Parameter based modelling. The easy-to-use transformation tool provided by IdemWorks generates Zuken-specific, time domain macro-models with a few button clicks, taking care of sophisticated requirements such as model passivity and causality. It also provides port reduction to ensure fast and easy to use models that focus on real designer needs.

"S-Parameter based modelling support has been requested by leading edge customers across all industries. The solution provided by Zuken and IdemWorks combines accuracy with ease-of-use. Add to that fully coupled lossy lines, real power plane geometry extraction, and advanced via modeling, and you're ready to carefully characterize signal integrity in the most challenging multi-gigabit designs", said Werner Rissiek, European General Engineering Manager.

Support for S Parameters is included the latest version of CR-5000 Lightning, revision 12.0. For more information about CR-5000 Lightning visit www.zuken.com/cr-5000-lightning.

Read more about S-Parameters within the interesting Technical Article "[S-Parameters: Microwave goes Mainstream for High-Speed PCB Design](#)".



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