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CIMdata News

CIMdata Announces the Availability of a New Review of Siemens PLM Software's Teamcenter Express Program

10 December 2009

CIMdata, the leading global PLM consulting and research firm, announces the availability of a new program review of Teamcenter Express, a Siemens PLM Software collaborative Product Definition management (cPDM) solution. The program review provides an overall description as well as CIMdata's assessment of the Teamcenter Express program for the Product Lifecycle Management (PLM) market. Customer testimonials are included to provide the rationale for the selection of Teamcenter Express to support specific PLM requirements, what the solution is being used for, and what type of benefits the

CIMdata PLM Industry Summary

company is receiving. This review is an assessment of the entire Teamcenter Express effort, including development, marketing, sales, and the product itself, Teamcenter Express Version 5.

Teamcenter Express is the core product data management component of Siemens PLM Software's Velocity Series—a set of preconfigured design, manufacturing, and data management solutions. It is intended to address product design through manufacturing planning needs of small- to medium-sized companies in multiple industries.

Mid-market solutions like Teamcenter Express focus on PLM issues that affect multiple industries including mechanical machinery and equipment, electromechanical, automotive products, consumer products, and others. Peter Bilello, Vice President of CIMdata explained, "The capabilities provided by these solutions best support small- to medium-sized manufacturing companies that design/engineer parts, components, and assemblies that are low to medium in complexity."

These solutions usually work with a wide variety of software applications, and with traditional paper-based systems that generate or use product-related data. Mr. Bilello added, "Typical users include managers, administrators, and end-users from a variety of departments including engineering, manufacturing, purchasing, marketing, sales, quality, and information technology who all need to access and manipulate product data. These solutions are intended to improve communication and cooperation among these diverse groups and form the basis for organizations to support their product definition lifecycle activities."

The key to success in this mid-market PLM space is "...the development and delivery of out-of-the-box applications and business solutions based on best practices that support an enterprise's product definition information management requirements. Siemens' Teamcenter Express and the rest of the Velocity Series' components are intended to deliver to this model," according to Mr. Bilello.

"With the release of Teamcenter Express Version 5, Siemens has further strengthened the solution's productivity and scalability. The updated user interface takes advantage of the latest user interface developments in Teamcenter 8, including new the Structure Manager and Lifecycle Viewer modules that provide improved ease-of-use for daily tasks around structure management and visualization," according to Mr. Bilello. The expanded Microsoft Office integration provides easy access to cPDM for users of Microsoft Word, Excel, PowerPoint, and Outlook, and includes the ability to review and signoff on workflow tasks from within the desktop tool. CIMdata continues to be impressed with the comprehensive approach Siemens PLM Software has taken, which illustrates their commitment to the mid-market.

For more information please contact CIMdata at +1(734) 668-9922. Copies of the Teamcenter Express Program Review are available at no cost through the [CIMdata](http://www.cimdata.com) website.

About PLM

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

About CIMdata

CIMdata, an independent worldwide firm, provides strategic consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product

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Lifecycle Management (PLM) solutions. Since its founding more than 25 years ago, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM enabling technologies.

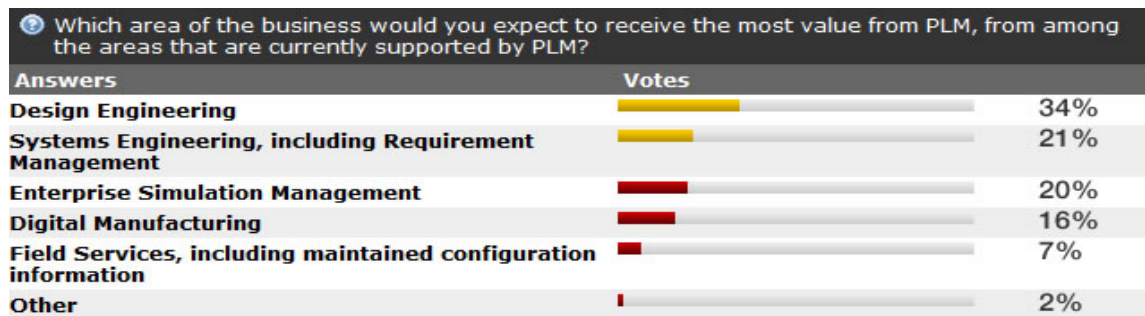
CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, delivers PLM Certificate classes, and produces several commercial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

To learn more about CIMdata's services, visit our website at www.CIMdata.com or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957, or Siriusdreef 17-27, 2132 WT Hoofddorp, The Netherlands. Tel: +31 (0)23 568-9385. Fax: +31 (0)23 568-9111.

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CIMdata Announces the Results of its Latest Poll: Where Do You Expect to Receive the Most Value from PLM?

11 December 2009



CIMdata's most recent poll asked participants to indicate where they expected to receive the most value from PLM. Not surprisingly, design engineering was the highest rated (34% of responders). Design engineering was the first adopter of PLM and has the most deployed and mature use of PLM solutions. PLM solution suppliers have provided tailored applications for design engineering departments in many industries and these can provide significant benefits to those organizations.

System Engineering (and Requirements Management) was rated second with a 21% share of responders. This reflects the awareness of increasing product complexity and the need to consider the entire product (mechanical, electronic, and software) as a whole unit to be able to make better design decisions. Requirements Management reflects the need to understand the "voice of the customer" and track those requirements to the product design decisions. CIMdata expects that Systems Engineering and Requirements Management will continue to become more and more important in driving product development.

With a 20 % share, Enterprise Simulation Management is becoming an area that can deliver major, sustained benefit. As companies continue to compress the development lifecycle and try to reduce building physical prototypes, being able to manage the simulation and analysis processes and data becomes more important. Using PLM to manage simulation and analysis more effectively is an area that

more companies will focus on in the future to complement the management of the design information.

Digital manufacturing (16% of responders) is also growing in importance, though more slowly than earlier predicted. As digital manufacturing solutions become more widely available, the ability to more effectively bridge design engineering and manufacturing should produce quantifiable benefits for companies.

While field service (7% of responders) received the smallest number of votes, this is an area that is just beginning to utilize PLM methods and solutions applied to it. However, the potential impact is huge in some service-based industries and this area should gain visibility and value. Over time, this area will grow in importance.

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Company News

COADE CADWorx 2010 Review Video by ECAD Introduces CADWorx P&ID Productivity Enhancements

8 December 2009

COADE, Inc. announced the online posting of a new CADWorx 2010 Review Video that discusses some of the key enhancements in the latest productivity release of CADWorx P&ID, including a new intelligent match properties command that automates data transfer between multiple objects, a new in-line inheritance command tool that allows you to define properties that in-line items such as valves and reducers will inherit from the parent process lines, a tool to export mitered pipe to Isogen and several other new productivity enhancing capabilities.

The 10-minute video was produced by ECAD Inc., COADE's Global Network Partner covering the southwestern United States, and can be accessed at <http://coade.typepad.com/coadeinsider/2009/12/coade-cadworx-2010-video-by-ecad.html>. Information on CADWorx and other COADE products is available at www.coade.com

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COADE Releases New COADE CADWorx FAQ Online

11 December 2009

COADE, Inc. announced the release of the COADE CADWorx FAQ online, with easy-to-find information on the CADWorx Plant Design Suite, including available modules and tools, industry applications, purchasing and licensing, and support and training. Other topics cover some of the core advantages that distinguish CADWorx from other programs, such as its ease of use, open architecture, and scalability for projects ranging from small drawings or models to large, complex turnkey plant designs. Also included is a section on the advantages of the software's integration between design and engineering analysis that allow easy, real-time sharing of information back and forth during the design process between the plant designers and stress engineers who analyze the viability of the various piping systems and pressure vessels that are part of the facility. These advantages of COADE CADWorx have helped reduce man-hours and costs by 50% or more for designers, engineers and owner-operators of plant facilities.

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The COADE CADWorx FAQ is at <http://www.coade.com/CADWorx-FAQ> Information on other COADE products is available at <http://www.coade.com>.

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Dassault Systèmes Accredits CENIT for CATIA V6 High End and CATIA V6 PLM Express

10 December 2009

CENIT AG has been acting as Value Added Reseller (VAR) for the French software maker Dassault Systèmes since January of 2008. In the spring of 2009, this collaboration was expanded to include ENOVIA V6. Now comes the next step: The PLM consulting and software provider is one of the first partners to be accredited for CATIA V6 High End and for CATIA V6 PLM Express.

"CENIT AG has already participated in the Dassault Systèmes Industrialization Project for V6 since 2008. With this extensive accreditation, Dassault is now honoring the excellent process and sector expertise of CENIT AG and our long-standing strategic cooperation," says Achim Löhr, Director, PLM Value Channel at Dassault Systèmes.

This means that CENIT can now offer the broadest product portfolio of all VAR partners in Germany, Austria and Switzerland. It encompasses the solutions CATIA V4/V5, ENOVIA MatrixOne, ENOVIA VPLM, ENOVIA SmarTeam, ENOVIA V6, SIMULIA (ATH/ANL), Dymola, 3Dlive, 3DVia, DELMIA, and now also CATIA V6 PLM Express and CATIA V6 High End.

"Our customers now benefit from new solution packages that extend beyond the standard portfolio: These packages are individually tailored to an immense range of user profiles and all relevant PLM processes in customer enterprises", says CENIT CEO Kurt Bengel. He adds: "Once again, it's an impressive demonstration of our technology expertise as a Dassault partner."

V6 solutions are based on the PLM 2.0 architecture, which enable collaborative innovation and productive cooperation by all process participants across all business processes - within the enterprise and beyond. The V6 online environment permits knowledge management via a uniform, overarching platform that opens access to, but yet protects, the collective intelligence base available in the extended enterprise. The consolidation of different systems into the open V6 Service Oriented Architecture (SOA) platform guarantees great depth of integration and reduced operating costs.

Additionally, CENIT is in the process of adapting the successful CENIT Industry Accelerator Suite, which provides standard, out-of-the-box functionalities to speed up and simplify the sector-specific introduction of CATIA and ENOVIA. Availability under the V6 architecture is projected for early 2010.

More information on CATIA V6 at <http://www.cenit.de/catiav6>.

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Four Elements for Developing Superior Composite Wind Turbine Blades, a new eBook from VISTAGY

10 December 2009

Continuous innovation is required for the wind energy industry to be competitive with alternative energy sources and sustainable in the long run. As turbines grow in size, minimizing the weight of the blades is critical for enhancing efficiency. Low weight composites have the demonstrated durability, stiffness and

strength to be well suited for wind turbine blades, but new technologies and processes are needed to fully leverage these materials and keep wind a cost-effective source of power.

A new [eBook](#) from [VISTAGY](#) explores the four key elements that are necessary to develop high quality, durable, high-performance composite wind turbine blades that will enable the industry to get to market faster while lowering manufacturing and lifecycle costs, minimizing premature failures and delivering larger and lighter blades.

The [eBook](#) discusses how to automate composites product development processes; improve blade manufacturing quality and consistency, increase blade performance and implement an easier design process for assessing blade variants and customization.

This is the first in a series of VISTAGY Wind Energy eBooks.

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Geomagic Opens New German Office in Response to Business Growth in EMEA Region

9 December 2009

Geomagic has opened a new office in Munich, Germany, in response to the increasing demand for the company's software and services in the Europe, Middle East and Africa (EMEA) region. The office opening is timed to support Geomagic's end-of-the-year training initiatives and promotions for EMEA customers.

[Geomagic](#) is a provider of software that enables companies to create highly accurate 3D models from scanned objects. The company's products improve quality and increase speed for product design, reverse engineering, engineering analysis, inspection, and visualization of as-built parts.

Chosen for its central location in the region, the Munich office houses Geomagic's EMEA technical support, training and sales teams, and includes a dedicated facility for customer and partner training. Geomagic now offers instructor-led training classes in the Munich office and plans to extend its training program to other geographical locations in EMEA.

Geomagic software is used in a broad range of industries throughout the EMEA region, including aerospace, automotive, consumer products, industrial machinery, dental CAD/CAM, medical, art and science. The company now has 10 offices worldwide and a network of international distributors providing regionalized sales, support and training.

For more information on the EMEA region, contact Gerd Schwaderer, business development manager, at europe@geomagic.com or +49 178 77 67 887.

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ICAM Partners with Major Mastercam Reseller in Japan

7 December 2009

ICAM Technologies Corporation (ICAM) announced the signing of a Dealership Agreement with JBM of Japan. Under this agreement, JBM will sell, develop and support ICAM's integrated NC post-processing and machining simulation products behind Mastercam to the local Japanese market.

Integrated post-processing and machining simulation is made possible with Virtual Machine® and CAM-POST® - ICAM's machine tool simulator and NC post-processing development tool, respectively.

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This combination delivers a simulation environment that provides Mastercam NC programmers with the means to test programs against collisions and over-travel, easily and automatically, during post-processing - a unique feature in the NC manufacturing industry.

Machining simulation sessions have been simplified with the launch of ICAM's Mastercam Extractor featured inside the latest version of Virtual Machine. To create machine models in Virtual Machine, Mastercam Extractor allows for the automatic data extraction of the tool, part, stock, fixtures and holders, as described in Mastercam X2, X3 and X4.

With ICAM's release of dedicated products to the Mastercam market, Mastercam programmers can now benefit from NC manufacturing solutions ranging from standard 3-Axis Mill and Lathes to complex 5-Axis Mill and Mill / Turn applications from within Mastercam.

"Our customers require advanced and reliable post-processors as well as machining simulation," stated Taiji Sano, President and CEO of [JBM](#). "What makes [ICAM](#)'s products so unique is that simulation can be done in real-time during post-processing; thereby, allowing programmers to check for collisions, over-travel, surface gouges and excess material, effectively and efficiently."

"JBM is the world's largest and most successful Mastercam reseller that employs a highly skilled technical staff with a reputation for being technology visionaries in the NC manufacturing market," says John J. Nassr, President of ICAM. "JBM is the ideal partner to provide and support ICAM's Integrated PSE solution to the local Japanese market."

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New COADE Video by ECAD Introduces New CADWorx Plant, CADWorx Equipment, CADWorx Steel Enhancements for 2010

9 December 2009

COADE, Inc. announced the online posting of a new video on COADE CADWorx 2010 that highlights enhancements in CADWorx Plant, CADWorx Steel and CADWorx Equipment, including new 3D design tools, Isogen export features, bi-directional links between analysis and design and more.

Covered in the 7-minute video are new features in CADWorx Plant 2010 that allow users to insert 3D pipe supports compatible with both CAESAR II and Isogen and to create custom pipe supports, plus a tool that allows them to export mitered pipe to Isogen. Also featured is a new bi-directional link that allows users to move a CADWorx Steel model seamlessly from analysis to 3D design, to 2D drawing creation plus the addition of new steel shapes including double angle, Z, channel lip lift and angle lip lift shapes. In CADWorx Equipment 2010, new features highlighted in the video include the ability to export the HVAC model to a database and to add insulation to any component and to specify the insulation type, size, density, thickness, etc. Also featured is a new CADWorx Equipment 2010 capability that allows you to look up body flanges based on ANSI flange tables and to add blind flanges to nozzle components.

The COADE CADWorx 2010 video was produced by ECAD Inc., COADE's Global Network Partner covering the southwestern United States. The video can be accessed at

<http://coade.typepad.com/coadeinsider/2009/12/ecad-produces-cadworx-2010-video-for-3d-products.html>. Information on CADWorx and other COADE products is available at <http://www.coade.com>.

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Organice Publishes a White Paper about 10 Steps to a Successful EDMS Implementation

8 December 2009

Cadac Organice, subsidiary of the Cadac Group and Microsoft Gold Certified Partner developing Organice, a SharePoint based engineering document management solution, has published a white paper about 10 steps to a successful EDMS implementation.

In today's business processes, information plays a key role. Information is used to steer business processes and to provide people the information and instructions to do their jobs. Most of our information is kept in documents and it is very important that documents are well managed and that they are available to the right people at the right time. A Document Management System is therefore crucial to steer business processes and to ensure that people have access to the right information whenever they want and wherever they are.

Since (Engineering) Document Management Systems are closely related to business processes, an EDMS should not be implemented overnight. An organization needs to be well prepared and needs to understand their requirements, scope and objectives to successfully implement a Document Management Solution.

Cadac Organice has published a white paper in which they describe 10 steps to a successful implementation of an (Engineering) Document Management System. The white paper is based on over 20 years of experience in implementing EDMS systems for project driven companies in various (engineering) industries.

Use the link below to download the white paper:

- [Organice White Paper – 10 steps to a successful EDMS implementation](#)

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PTC Japan and NEC Announce Enterprise Alliance

8 December 2009

PTC Japan, and [NEC](#), a leading provider of IT and networking solutions, announced that they have signed an enterprise alliance agreement enabling NEC to resell PTC PLM solutions. Under the agreement, the two companies will also collaborate on marketing and promotional activities with focus on sales of PTC's PLM software to Japanese owned companies worldwide.

The PTC Product Development System is comprised of Pro/ENGINEER® for CAD/CAM/CAE product design, Windchill® PLM software to manage and configure complete product development content,

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Arbortext® for product information delivery, Mathcad® for engineering calculations, ProductView™ to visualize digital product content, and InSight™ for product analytics.

NEC will incorporate PTC's PLM software solutions, including Windchill and Pro/ENGINEER, that have a demonstrated record of success in the global market, as key offerings in its PLM solution lineup. NEC expects that the addition of the PTC solutions will help it to expand its business in Japan as well as in other parts of the globe, and is particularly focused on Asia. NEC Software Kyushu has already begun offering the PTC solutions to customers.

Companies in the manufacturing and retail industries today are under intense pressure to accelerate time-to-market and to globalize product planning and engineering operations. As a result, they have become increasingly interested in PLM solutions, which can help improve product development processes and ultimately help increase competitive advantage in these industries. This alliance is in response to such market trends.

"Partnering with leading Japanese IT companies, such as NEC, is an important part of PTC's global business strategy," said Paul J. Cunningham, executive vice president, Worldwide Sales, PTC.

"Combining NEC's IT and PLM expertise and experience and PTC's leading technology, will further expand our technology leadership position in the product development market and help maximize the value we provide to our customers in Japan and other parts of Asia."

"[PTC](#) has a proven track record in the global market. By adding PTC solutions to NEC's portfolio, we believe we will be able to see synergy of solutions from both companies and strengthen our PLM business in and outside Japan," says Yasujiro Ryuno, Associate Senior Vice President, NEC Corporation.

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RAND Worldwide and their IMAGINiT Technologies Division Offer Web-based Learning with New LIVE Online Solution

10 December 2009

RAND Worldwide® announced that it will now be offering many of their regularly scheduled, expert-led training classes online through their LIVE Online training offering (link: www.rand.com/LIVEOnline-pr).

RAND Worldwide uses a virtual online training environment that connects students remotely to software, to the instructor, and to other students. This technology provides students with an experience that closely simulates the classroom environment that students expect. With this improved technical platform, instructors are able to interact with students in a way that maximizes the transfer and retention of knowledge and skills, as they would in a traditional in-person classroom setting.

With the new virtual technology platform, RAND Worldwide provides students with access to the software on which they are being trained. Students will not need to have the software running on their own computer as they will be logging into a remote training server loaded with the latest software. This provides students with the flexibility to attend LIVE Online training classes from any location with a standard high-speed Internet connection, reducing travel costs and time away from the office.

IMAGINiT Technologies will be offering several of the most popular Autodesk training classes via LIVE Online as well as classes that range in scope from introductory to the advanced level. RAND Worldwide will be offering training for the CATIA product via LIVE Online. In addition, some of the

CIMdata PLM Industry Summary

courses being offered through LIVE Online are guaranteed to run, ensuring that students don't schedule downtime only to find out that the class schedule has changed. To see a full listing of the courses being offered via LIVE Online, or to register, please visit:

http://rand.com/1/LIVE_Online/Landing_pages/Live_Online.htm

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Right Hemisphere and Desys Partner to Bring Visual Enterprise Solutions to Italian Manufacturers

9 December 2009

[Right Hemisphere](#)® announced a partnership with Desys srl, a Siemens PLM reseller and IT product and services provider. As a new Right Hemisphere Visual Alliance Partner, Desys will introduce Right Hemisphere's advanced Visual Enterprise solutions to customers and prospects in Italy where the company is headquartered. Together the companies will present the software suite's capabilities to manufacturers that could benefit from Right Hemisphere's solutions. In addition to co-selling Right Hemisphere's enterprise solutions, Desys will be authorized to market, sell and support Right Hemisphere's Deep Exploration™ client software in Italy.

“With Right Hemisphere's client and enterprise solutions in our portfolio, we can help our discrete manufacturing clients increase their productivity in very specific and high impact ways,” said Desys Vice President Salvatore Montanarella. “Technical documentation departments, for example, are grappling with issues such as compressed documentation development timelines, growing product complexity and reduced budgets and resources. With Right Hemisphere's software inside our Linkersys™ web collaborative platform, we can enable our clients to reuse their 3D CAD data to get their product documentation produced faster, with fewer resources, and increase customer satisfaction.”

“We know that we can have a tremendous effect on manufacturing businesses in Europe with our visual solutions,” said Right Hemisphere Director of Marketing Robert Merlo. “Desys is a well known, respected and trusted engineering and consulting services provider for Siemens PLM solutions. They will be an important part of our expansion into new regions where we want to grow our visibility and presence. Their partnership, strong customer relationships and ability to sell and support our solutions gives us the opportunity to show businesses in Europe what we can do to bring about higher levels of efficiency in their core business processes.”

Italian manufacturers interested in learning more about Right Hemisphere's client and enterprise solutions, should contact Desys for more information or go to the Desys Web site at <http://www.desys.it>

About Desys

Desys was born in 1995 with the intention of creating a major operating centre in the field of mechanical design and the product's implementation. The company provides high level solutions and services. During its 15 years of activity, Desys became a Systems Integrator, extending its range to all areas of Product Lifecycle Management. The company makes solutions based on SIEMENS technologies for the development of digital products and on the proprietary web collaborative technology: Linkersys™. Desys is a Siemens PLM Solution Partner with extensive experience in selling, implementing and servicing Siemens Teamcenter, Solid Edge and Femap products. Desys is also a supplier and partner to many other important companies, such as Angelantoni Industries SpA, SEA Società Europea Autocaravan SpA, Imer International SpA, Targetti Sankey SpA, Rotork Group, and WASS of Finmeccanica Group.

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solidThinking Increases Its Availability in Asia by Signing SiliconStudio Korea as a Value-Added Reseller

11 December 2009

solidThinking, Inc. (<http://www.solidthinking.com>) announced it has added SiliconStudio Korea, Ltd., (<http://www.siliconstudio.co.kr>) to its growing value-added reseller (VAR) community. SiliconStudio Korea will market, sell and support solidThinking's NURBS-based concept-design software throughout South Korea. This agreement is the latest international VAR partnership signed by solidThinking to increase the software's adoption throughout the global industrial design/styling market.

SiliconStudio Korea provides the latest technology and software developments to the digital design, 3D visualization, computer graphics and virtual reality industries in South Korea to meet their concept-development needs.

"SiliconStudio Korea is a well-known design technology resource and consultant in its market," said Jim Hassberger, vice president of business development and customer relations for solidThinking. "Our agreement with SiliconStudio Korea expands our market presence in South Korea and further positions solidThinking for continued growth throughout Asia and other international markets."

"solidThinking's flexibility, intuitive nature and high-quality visualization capabilities make it an ideal addition to our suite of software offerings and a desirable option for the design community," said KyuJae Lee, CEO of SiliconStudio Korea. "solidThinking's compatibility with other computer-aided design software and availability on both Mac and Windows operating platforms give users more confidence to collaborate freely and without constraints during the concept-development process."

solidThinking's 3D conceptual-design software aims to encourage innovation in industrial designers and architects through a number of advanced features, including an intuitive user interface; a ConstructionTree™ technology that allows designers to experiment in real time without having to start from scratch when they change their minds; and high-quality, real-time photorealistic imaging capabilities for realistic design visualization.

With solidThinking Inspired™, users have the capability to run morphogenesis™ form-generation technology to grow efficient shapes in response to environmental forces and pressures. Morphogenesis is a key innovation in solidThinking 8.0 Inspired and draws on the principles of biomimicry to allow designers and architects to explore and experiment with their design concepts using form generation.

solidThinking is a wholly owned subsidiary of Troy, Mich.-based Altair Engineering, Inc. (<http://www.altair.com>).

About SiliconStudio Korea, Ltd.

Established in 1999, SiliconStudio Korea Ltd. focuses on providing the Virtual Reality, 3D Visualization and Computer Graphics industries with the latest technology and software developments. Its suite of software offerings, professional consulting and industry know-how make SiliconStudio Korea a total solution provider for the entertainment, VR, CG and digital design industries in Korea.

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Events News

ASCON's KOMPAS Solutions Were Presented at the International Fair of Tools and Methods of Virtual Processing

11 December 2009

KOMPAS-3D and KOMPAS-Graphic, MCAD solutions from ASCON, were presented at WIRTOTECHNOLOGIA by a company's partner and KOMPAS official reseller in Poland, **Usługi Informatyczne «SZANSA»**.

KOMPAS-3D was showcased with its own stand at the fair, which is Poland's only trade exhibition dedicated to a wide range of issues relating to Rapid Prototyping applied in industry, professional engineering systems such as CAD, CAM, CAE as well as ERP, MRP and PLM systems. Visitors to WIRTOTECHNOLOGIA: designers, engineers, CEOs of industrial enterprises, IT experts, journalists, students of mechanical engineering and others learned about the functionality of KOMPAS-3D –its basic version capabilities, wide set of different add-ons; easy-to-use and learn features, solution support of all the main data formats for easy and quick exchange. Especially appreciated was the reasonable price of KOMPAS and special offers, such as CAD trade-in, rental abilities from 3 month to one year.

Contact ASCON at contact@ascon.net or find your nearest reseller <http://ascon.net/main/partners/> to get more information about the solutions or special offers.

Download free version of KOMPAS-3D LT at www.ascon.net

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Creative Dezign Concepts to Present Digital Shape Modeling (DSM) for Laser Scanning Inside of Solidworks 2010 at the 2009 PRI Show

9 December 2009

Creative Dezign Concepts Inc announced the release of DSM, the world's first, feature based reverse engineering product for laser scanned data, entirely inside of SolidWorks 2010 3D mechanical design software and it will be featured at the Performance Racing Industry Show, PRI, in Orlando, Florida on December 10 -12 2009 in booth 1755.

Creative Dezign Concepts is once again changing the way engineers and designers handle their reverse engineering projects. Just like their current product Dezinworks, which allows you to create feature based reverse engineered models inside of your Computer Aided Design system with the input of a portable CMM arm, Creative Dezin is launching Digital Shape Modeling which is the world's first feature based reverse engineering product to use input from an arm mounted laser and allow you to build features and data inside of [Solidworks](#). Engineers and designers can use DSM and SolidWorks to capture laser scanned data from existing parts directly within the SolidWorks environment maintaining the associativity so they can design better products faster and more accurately, eliminating the need to work with their point cloud, laser scanned data in a separate product and eliminating non-intelligent solid models.

DSM is an extension of Dezinworks which means you will be able to laser scan when it makes sense and probe when it makes sense, giving you the control over how you want to reverse engineering your products. The key of this system is that all commands and data are captured entirely inside of

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Solidworks so all your Solidworks tools are available to you to create the features you need and design the way you already know how. No need to learn a complicated and expensive point cloud manipulation tool, when you have everything you need from DSM inside of Solidworks.

“Engineers shouldn’t have to move between 2-3 different applications to finish a product design,” said Jim Watson, CEO of Creative Dezin Concepts and creators of Dezinworks and DSM. “Integrating DezinWorks and DSM with SolidWorks means engineers can begin reverse engineering their existing parts directly within the SolidWorks environment deciding if they need to laser scan or hard probe as they work. That saves time and helps manufacturers meet tight production deadlines.”

Combining Solidworks with DSM gives engineers the tools they need to capture laser scanned data inside of Solidworks, in real time, so you scan what you need and use the data as you scan. Unlike other point cloud products, DSM will turn your laser scanned data into cross sectional lines arcs and splines. No more looking at millions of points on a screen and trying to figure out how to turn it into something you can actually use. Get real cross-sectional data containing information you work with every do to design your products. Come see how DSM is making laser scanned data useful to today's engineers.

In conjunction with the release of Dezinworks 10 for Solidworks 2010 and DSM for Solidworks 2010 Creative Dezin Concepts has launched a new Youtube channel highlighting the functionality of the latest release of the software. Hear you can find the latest features, demonstrations and tips and tricks for the use and application of the software. (<http://www.youtube.com/user/CreativeDezinConcept>) Johnny Kim, Sales Manager for Creative Dezin Concepts commented, “With the addition of our Youtube channel along with our existing support staff and technical newsletters, we believe we are bringing not only the best product to the market for reverse engineering inside of Solidworks but also the best customer experience and ongoing value to the market.”

The SolidWorks Partner Program features products and services that complement SolidWorks products. Certified Gold Products are fully integrated with SolidWorks and provide users with instant access to the partner application within the SolidWorks window. Solution Partner products offer a variety of integration methods with SolidWorks software, including the SolidWorks application programming interface (API) and established industry standard file formats. SolidWorks has more partners in the mid-range CAD market than any competing technologies, with more than 600 companies worldwide participating in the SolidWorks Partner Program.

About Creative Dezin Concepts Inc

Creative Dezin Concepts Inc develops and markets software for reverse engineering. It is the leading supplier of 3D CAD / CAM Products for the NASCAR Race Teams. Creative Dezin Concepts Inc is also a certified VAR (value added reseller) for CAD/CAM software such as SolidWorks, Cosmos and DezinWorks. Being a certified manufacturing partner for SolidWorks offering reverse engineering services enables Creative Dezin Concepts Inc to use Dezinworks on a daily basis, constantly testing and implementing industry first technology. Located in Mooresville, NC (Race City USA) home of over 95% of the NASCAR Race Teams. Creative Dezin Concepts works with the NASCAR race teams on a daily basis to improve their performance. For the latest news, information, or a Webex demonstration, visit the company’s web site (www.dezinworks.net) or for other CAD/CAM products visit (www.gocreative.net) or call 1-704-660-5100

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Dassault Systemes’ Strength in Vehicle Design Continues to Grow Over 80% of All LA Auto Show

Vehicles Designed in CATIA

9 December 2009

[Dassault Systèmes](#) (DS) announced that CATIA, the company's solution for virtual design, was used in the development of over 80 percent* of all the vehicles on display at the 2010 LA Auto Show, open to the public through December 13, 2009. The use of the CATIA solution is strong (85%) in the Green Ride & Drive vehicles, which are experimental models that offer high efficiency, low environmental impact or run on a variety of alternative fuels. The Green Car Journal's 2010 Green Car of the Year, as well as the 2010 International Car and Truck of the Year awards announced during the LA Auto Show were also all designed in CATIA.

It has long been recognized that implementation of CATIA allows automakers to reduce vehicle development cost and bring product to market more quickly. In addition to bringing efficiency to the process, CATIA allows more time for innovation and testing of different design features that can help reduce energy consumption, such as rolling resistance, aerodynamics, and vehicle weight, to name a few.

As automakers endeavor to meet today's aggressive emission standards, vehicle system complexity will continue to increase as hybrid and other advanced powertrain technologies become increasingly prevalent. To help with this, Dassault Systèmes next generation V6 platform provides an integrated, multi-disciplinary approach to product development where all engineering domains and solutions are linked together in a common and dynamic engineering template. Components from multiple disciplines, as well as the numerous interactions between them, are modeled in the authoring environment of CATIA to enable dynamic simulation of the complete system via a virtual prototype. This allows all systems (mechanical, electronic, software) to be dynamically tested and validated together to improve system performance, reduce cost, and maximize reliability of these critical systems.

The L.A. Auto Show runs from December 4 – 13 and takes place at the Los Angeles Convention Center. For more information, visit www.laautoshow.com.

*Numbers based upon LA Auto Show confirmed vehicles as of November 23, 2009

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KOMPAS-3D was Presented at one of the Leading International Fairs in Sweden

9 December 2009

KOMPAS-3D, high-performance Mechanical Computer-Aided Design solution from ASCON, was showcased at a trade fair - Elmia Subcontractor in Sweden by an official reseller of the solution, JL Systems. Elmia Subcontractor is the leading international, specialized exhibition for subcontractors to the engineering industry in Northern Europe.

A special focus of this event was inviting interesting companies to complement the automotive industry in this year's edition of match-making. JL Systems presented KOMPAS during four days in November among over 1200 exhibitors from around 30 different countries, who come to Jönköping. Professional specialists from JL Systems held live demonstration and presentations of the solution. KOMPAS-3D and KOMPAS-Graphic were appreciated by industrial enterprises specialists, IT experts, design and construction chiefs and journalists. All the visitors were able try all the feature set of the classical 3D Solid Parametric Modeler and extended line of add-ons, specialized applications, such as pipelines 3D, photo rendering, animation, kinematic and dynamic analysis, extended CAD/AEC/PLM integration and

many others.

About KOMPAS-3D

KOMPAS-3D, the Mechanical CAD solution from ASCON provides effective industrial product development, release of design and drafting documentation at an affordable and reasonable price.

KOMPAS-3D combines all basic features for Professional, Parametric 3D Modelling, full-scale 2D Design and Drafting opportunities, special add-ons for photo rendering, motion simulation, kinematic and dynamic analysis, import/export from other CAD/AEC/PLM solutions.

KOMPAS solutions are known for their powerful functionality in the mid-range CAD segment, easy-to-use and learn features and comfortable interface, reasonable price and strong compatibility functions. During over 20 years history of KOMPAS software solutions over 40 000 seats has been installed.

Download the free version of KOMPAS-3D LT at <http://www.ascon.net>.

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SmartGeometry 2010 Workshop on Advanced Design Exploration Heads to Barcelona March 19-22

9 December 2009

Bentley Systems, Incorporated announced that the SmartGeometry 2010 Conference workshop will take place March 19-22, 2010, at the Institute for Advanced Architecture of Catalonia (IAAC) in Barcelona, Spain. Organized by the SmartGeometry Group (www.smartgeometry.org), sponsored by Bentley (www.bentley.com), and hosted by IAAC (www.iaac.net), the four-day workshop carries the theme “Working Prototypes” and focuses on functioning prototypes developed to prove and test concept and design.

The workshop features 10 hands-on design studios, each led by preeminent professionals representing multiple disciplines from architectural practices and design institutes on the cutting edge of generative design. Among these professionals are Shane M. Burger, associate and head of the Computational Design Unit, Grimshaw; assistant professor Axel Kilian, Ph.D., School of Architecture, Princeton University; professor Achim Menges, director of the Institute for Computational Design, Stuttgart University; Brady Peters, Ph.D. Fellow, CITA, Royal Danish Academy of Fine Arts, School of Architecture; and professor Robert Woodbury, Ph.D., School of Interactive Arts and Technology, Simon Fraser University. The studios will facilitate the development and testing of working prototypes and provide a nucleus for exploration, discussion, processes, and techniques. Each will embrace a wide spectrum of approaches and engage 8 to 16 participants. Bentley will provide participants with GenerativeComponents – Bentley’s generative design software – for use in the workshop.

Huw Roberts, Bentley global marketing director, said, “Bentley is proud to sponsor, for the sixth straight year, the highly anticipated SmartGeometry Conference workshop. Seats are limited and, given the heavy attendance of past workshops, will undoubtedly fill up quickly. So I encourage those interested in participating to apply as soon as possible. This is a unique opportunity for architects and design professionals, along with architectural and engineering students, to explore advanced design objectives enabled by the latest technology. The studios will be led by renowned experts actively and enthusiastically engaged in the practice of generative design. They represent organizations that are already employing advanced computational and parametric design tools, technologies, and methodologies in delivering inspiring real-world projects.”

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Roberts continued, “The workshop will be followed by a two-day conference and reception, also sponsored by Bentley. The conference will focus on new trends in design and the huge potential of digital manufacturing and parametric modeling that now can be realized with advanced generative tools such as GenerativeComponents.”

Admission to the workshop is based on an application process and selection by the SmartGeometry Group. The application deadline is Jan. 10, 2010.

Workshop participants will use GenerativeComponents as their platform. Applicants unfamiliar with this software will need to complete training in advance of the Barcelona event so they can focus on design exploration during the workshop. Applicants can contact events@bentley.com for information on no-charge GenerativeComponents downloads and training opportunities available to them. Additional software complementary to GenerativeComponents, along with software plug-ins, will be supplied to participants for particular design studios.

For additional information about the SmartGeometry 2010 Conference workshop application process and format, and to apply, visit www.smartgeometryconference.com/2010.

For additional information about the workshop and conference and to view past presentations from the 2007, 2008, and 2009 events, visit www.SmartGeometryConference.com.

About the SmartGeometry Group

The SmartGeometry Group is firmly committed to the belief that computer-aided design should lend itself to capturing, expressing, and enriching the geometric relationships that form the foundation of architecture. The group is dedicated to educating the construction professions in the new skills required to effectively use advanced design systems such as GenerativeComponents. The directors of the SmartGeometry Group include Lars Hesselgren of PLP Architecture, Hugh Whitehead of Foster + Partners, and J Parrish of ArupSport. For additional information, visit www.smartgeometry.org.

About GenerativeComponents

GenerativeComponents – Bentley’s generative design software – enables architects and engineers to pursue designs and achieve results that were virtually unthinkable before. Empowered by computational methods, the designers can direct their creativity to deliver inspired, sustainable, high performance buildings that are freer in form and use innovative materials and assemblies. GenerativeComponents facilitates this by allowing the quick exploration of a broad range of “what-if” alternatives for even the most complex buildings.

This generative design software captures and exploits the critical relationships between design intent and geometry. Designs can be refined by either dynamically modeling and directly manipulating geometry, by applying rules and capturing relationships among building elements, or by defining complex building forms and systems through concisely expressed algorithms.

To inform decisions, GenerativeComponents is integrated with software for building information modeling, analysis, and simulation, providing feedback on building materials, assemblies, systems performance, and environmental conditions. This integration also ensures that intent becomes reality by enabling designs to accurately and efficiently flow through to detailed production and fabrication.

GenerativeComponents is enabling leading architects and engineers around the world to deliver inspired sustainable buildings. Among them are Aedas, Arup, Buro Happold, Foster + Partners, Gensler, Grimshaw, Henning Larsen Architects, Morphosis, PLP Architecture, SHoP Architects, and TVS.

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For more information about GenerativeComponents, visit www.GenerativeComponents.com.

For additional information about Bentley, visit www.bentley.com.

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Financial News

Valor Announces Financial Results for Q3/09; Positive Cash Flow Trend Persists

18 November 2009

Valor Computerized Systems Ltd. announced its financial results for the period ending September 30, 2009.

Revenues in the third quarter of 2009 were \$8.4M, a decrease of 9% as compared with \$9.2M in the previous quarter.

Operating profit in the third quarter of 2009 was \$0.1M, as compared with operating profit of \$0.7M in the previous quarter.

Net profit in the third quarter of 2009, not including transaction related costs associated with the definitive merger agreement signed between Mentor Graphics and Valor, was \$0.3M, as compared with net profit of \$1.1M in the previous quarter. Positive cash flow from operating activities during the quarter accumulated to \$0.3M.

Revenues in the first nine months of 2009 accumulated to \$26.6M. Operating profit during that period was \$1.5M, and net profit was \$2.2M, not including transaction related costs associated with the definitive merger agreement signed between Mentor Graphics and Valor.

The company has increased its cash position by \$1M to \$28.3M during the three months ended September 30, 2009.

Summary of Financial Data (Unaudited, \$US thousands unless otherwise noted):

	Q3/09	Q2/09	% Change
Product Sales	3,953	4,949	(20.1%)
Service Revenues	4,439	4,255	4.3%
Total Revenues	8,392	9,204	(8.8%)
Gross Profit	7,043	7,881	(10.6%)
EBITDA	601	1,221	(50.8%)
EBIT	73	666	(89.1%)
Net Profit	22*	1,121	(98.0%)

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	Q3/09	Q2/09	% Change
EPS in US\$ (diluted)	-	0.06	(100.0%)
Shareholder's Equity	44,324	43,099	2.8%
Total Assets	53,647	53,264	0.7%
Research & Development	2,208	2,258	(2.2%)
Employees (Period End)	232	232	-

* Including transaction related costs associated with the definitive merger agreement signed between Mentor Graphics and Valor, accumulated to \$0.25M as of September 30, 2009.

Some of the following statements are forward-looking in nature, and actual results may differ materially:

Referring to the financial results, Dan Hoz, Valor's CEO said: "Valor managed to show profitability and an increase in cash position despite Q3 being a traditionally weaker quarter, especially in a challenging year such as this. So far, on an accumulative basis, our operating and net profits have met and even exceeded our expectations. We are also happy to see the continuous increase in cash position."

"The positive trend in the assembly market and in the Far East that we began to see in the previous quarter has manifested in strong business this quarter. We are also continuing to develop our OEM business, and have recently joined forces with Philips Electronics (Assembléon), to bring full factory integration to Assembléon's pick and place equipment and deliver a complete suite of software and tools for the electronics assembly marketplace, in a first of its kind industry partnership", Hoz added.

On October 13, 2009, Valor announced the signing of a definitive merger agreement for the acquisition of Valor by Mentor Graphics. Under the terms of the agreement, which was approved by the boards of directors of both companies, Valor shareholders will receive a combination of Mentor Graphics common shares and cash for aggregate consideration equating to approximately \$4.60 per Valor share. Subject to satisfaction of regulatory requirements and approval of Valor shareholders, as well as certain closing conditions, the transaction is expected to close during the first calendar quarter of 2010, after which Valor will become a wholly-owned subsidiary of Mentor Graphics.

The complete financial report can be downloaded from the Investor Relations section on the Valor corporate website: www.valor.com

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Implementation Investments

China Railway Siyuan Survey and Design Group Standardizes Its Bridge Design Platform on PTC® Mathcad®

7 December 2009

PTC announced that China Railway Siyuan Survey and Design Group Co., Ltd. (Siyuan), one of the

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largest survey and design organizations in China, has successfully deployed Mathcad®, PTC's engineering calculation software, as its standard platform for bridge design. With the deployment, Siyuan has significantly improved its design efficiency and engineering calculation collaboration.

Founded in 1953, Siyuan is one of China's largest organizations responsible for conducting survey and design, as well as R&D for railway and related infrastructure. Some of Siyuan's notable projects include the Jingjiu Railway, also known as the Beijing–Kowloon Line – the longest railway in China's history; the Zhengzhou Station, the biggest railway hub in Asia; the Dayao Mountain Tunnel, the longest two-way electronic rail tunnel in China and Guangzhou – Shenzhen high-speed railway, the first high-speed railway in China. Currently, Siyuan is planning and designing the Beijing-Shanghai High-Speed Railway, a world-class railway line project with the largest investment and the most advanced technologies. Siyuan owns project survey, design, environmental evaluation, consulting, contracting, supervision and other ten A-grade specialty qualification certificates. Building upon its successful achievements, Siyuan plans to grow into an international engineering company.

With the shortening of overall railway design cycles, railway construction has entered a new phase where bridge construction accounts for a higher proportion of time than railway bed construction. As a result, new railway bridge structures with higher quality requirements create more complex engineering design demands for engineers. As an example, in the Beijing-Shanghai High-Speed Railway that Siyuan is designing, over 80% of the railway length is made up of viaduct, and involves a large amount of new and special structure designs and tremendous calculation work. In order to manage structural analysis challenges and sophisticated drawing tasks, the Bridge Department of Siyuan has developed and introduced different kinds of calculation software and CAD systems. To further enhance its design capabilities, Siyuan needed a solution that would provide powerful, automated calculation capabilities, as well as flexibility. After a thorough marketing research and technology cost comparison, Siyuan selected Mathcad to perform bridge design calculations.

Mathcad has replaced traditional inefficient, high error rate and non-revisable manual calculations with a dynamic calculation platform to share and document engineering calculations, enabling information reuse. Additionally, Mathcad can integrate with other project application software, thus eliminating repetitive work for engineers, greatly lowering error rates, shortening design cycles and reducing labor costs.

Huang Wei, head of software sector, bridge department, Siyuan, said, "The deployment of Mathcad has significantly elevated our engineering calculation accuracies. Previously, as the detailed designs of newly-built railway bridges are very complicated, they required manual calculation to break down and simplify complex engineering calculations, which consequently resulted in extra time and costs. Mathcad allows us to eliminate this bottleneck. We are now able to solve every engineering calculation given the mathematical expression, no matter how complicated it is."

"We are very pleased that [China Railway Siyuan Survey and Design Group](#) has engaged PTC and selected Mathcad as its standard design tool," said Jake Simpson, General Manager, Mathcad Business Unit, [PTC](#). "Mathcad's highly intuitive calculation environment helps engineers to solve complicated calculation problems, captures engineering calculation IP, improves design timeliness, and increases results accuracy. It ultimately drives innovation through faster product development, and higher quality design."



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Delcam's DentMILL Speeds Dental Manufacturing

9 December 2009

American manufacturer Espritdent is using [Delcam](#)'s DentMILL software to produce restorative dental substructures in Zirconia and other non-metallic materials up to 30% faster. The system is a key part of the company's mission to increase throughput at all levels, reduce costs and overheads, and maintain the highest levels of accuracy.

"We actually have more than eighteen years working with CAD/CAM solutions in the aerospace, semiconductor and medical industries," said Chris Scharf, Executive Director at Colorado-based Espritdent. "For the last six years, we have taken that experience and knowledge, and built a solid network of dental labs throughout the United States that use our products on a daily basis."

Espritdent's comprehensive high-speed services set it apart from traditional dental CAD/CAM houses. The company provides two service solutions. The first gives small labs access to advanced technology without a large capital outlay. Small labs send dental models directly to Espritdent for scanning, designing and manufacturing. The finished product is sent back in three to four days.

The second solution focuses on medium to large labs that want in-house scanning and design capabilities but don't want to be involved with machining. These labs purchase the Espritdent Elite scan and design system to use at their premises. The data collected are then transmitted over the private Espritdent network for manufacturing.

All the manufacturing is all based on Delcam's DentMILL machining software.

Dentmill is a standalone, knowledge-based CAM system for the manufacture of copings, bridges and implant bridges, and abutments in ceramics and titanium. It includes an interface with icons specific to dental applications making the system easy for dental technicians to learn, automatic nesting options to ensure the most efficient use of material, and highly-automated operation so that multiple copings and bridges can be produced quickly and efficiently.

One of its major advantages is that DentMILL is a completely 'open' CAM system that accepts data from any dental design system or scanner capable of exporting data in the STL format used widely within the industry. Similarly, it can output machining tool paths to virtually any CNC machine. Most other dental CAM programs are part of a 'closed' system that can only work with unique data formats or specific machining equipment.

According to Mr. Scharf, "We currently use the Delcam software as our solution for taking on complex dental designs. The results have been excellent. It is easy for non-technical staff to use and has significantly improved our milling efficiency. Our throughput has increased by up to 30% or more in some cases."

Espritdent uses advanced computer-controlled high-speed machining systems with the Delcam software to provide superior results in fit and predictability of the dental substructures. "We have produced 1,000s of dental frameworks, but, with DentMILL, we've been able to produce more of them with fewer machines," Mr. Scharf said.

With DentMILL, Espritdent has taken the production of dental structures to a new level of accuracy and consistency, while helping to reduce the time the patient has to wait for dental replacements.

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Khrunichev State Research and Production Space Center Selects Siemens PLM Software Solutions

7 December 2009

[Siemens PLM Software](#) announced that Khrunichev State Research and Production Space Center selected Siemens PLM Software's comprehensive PLM system. The system will help the company reduce development and production launch times for new products and modifications.

“Siemens PLM Software is pleased that Khrunichev State Research and Production Space Center selected our industry-leading technology following a thorough analysis,” said Steffen Buchwald, vice president and managing director, Central and Eastern Europe, Siemens PLM Software. “The introduction of NX™ software and the Teamcenter® portfolio, including an efficient digital mockup technology, will help Khrunichev to boost the production of new and modified products and to save product development and production planning costs.”

[Khrunichev State Research and Production Space Center](#) selected Siemens PLM Software following an extensive evaluation process. The major objective is to use Siemens PLM Software's NX software, its digital product development offering, and Teamcenter software, its digital lifecycle management portfolio, to reduce product development and production planning costs along with shortening the period between the start of a project and commissioning. This objective will require design process optimization using digital mockups, concurrent engineering techniques, and providing the development team with real-time access to up-to-date product data. The use of Teamcenter at the Khrunichev State Research and Production Space Center will control and trace projects, manage product structure, and provide a unified engineering knowledge and product requirements database.

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IBERDROLA INGENIERÍA Y CONSTRUCCIÓN Expands Use of Intergraph® SmartPlant® Enterprise Solutions, Including SmartPlant 3D

10 December 2009

IBERDROLA INGENIERÍA Y CONSTRUCCIÓN (Engineering & Construction) has expanded its use of [Intergraph® SmartPlant® Enterprise](#) solutions to further increase productivity and accelerate projects throughout the design, engineering and construction cycle of its power generation and distribution construction projects.

IBERDROLA INGENIERÍA Y CONSTRUCCIÓN, an Intergraph customer since 2003, chose SmartPlant 3D design and SmartPlant Foundation to more efficiently design projects and integrate design, construction, materials and engineering data for its EPC projects. IBERDROLA INGENIERÍA Y CONSTRUCCIÓN migrated from PDS to Intergraph's SmartPlant 3D design solution to take advantage of its increased functionality, design speed and better performance on power plant design projects. SmartPlant 3D is a next generation design system. The data-centric software provides clients with the most productive, highest quality, multi-discipline 3D modeling environment in the world for global multi-office execution of process and power plants.

To integrate project environments and manage the data flow between them, IBERDROLA INGENIERÍA Y CONSTRUCCIÓN selected SmartPlant Foundation. The ISO 15926 compliant data management solution ensures that subcontractors work within IBERDROLA INGENIERÍA Y CONSTRUCCIÓN templates, procedures and specifications. The data management software also will provide connectivity within IBERDROLA INGENIERÍA Y CONSTRUCCIÓN's project management

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environment to ERP, document management, planning and visualization applications. SmartPlant Foundation is the document and data management solution within SmartPlant Enterprise, an integrated solutions suite that provides full design, construction, materials and engineering data management capabilities needed for the creation, safe operation and maintenance, and capital Project Lifecycle Management (cPLM) of large-scale process and power projects.

“To continue to grow and access international markets, we needed to be more competitive,” said Fernando Torres, System Manager of IBERDROLA INGENIERÍA Y CONSTRUCCIÓN. “Our expanded use of Intergraph SmartPlant Enterprise solutions will allow us to do that by integrating our project and engineering environments throughout the life cycle of our plant projects, from design to commissioning. This integration helps manage data throughout the enterprise and complete projects more efficiently. We specifically chose SmartPlant 3D because of its powerful global workshare and automation capabilities within the discipline-integrated environment of SmartPlant 3D, including equipment, piping, solids modeling, structural, instrumentation, electrical and drawings production.”

About IBERDROLA INGENIERÍA Y CONSTRUCCIÓN

IBERDROLA INGENIERÍA Y CONSTRUCCIÓN Engineering & Construction is one of the world’s leading energy engineering companies, with projects in over 25 countries, subsidiaries and branches in another 22 and a project portfolio valued at over 2.3 billion euro at the end of 2008. The Company’s increased activity in recent years is the result of a shift in its strategy, which began in 2004, when it targeted its activity at engineering and construction, primarily of power generation, distribution and control facilities. It is also heavily involved in large nuclear energy and renewable energy projects.

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Lockheed Martin Aeronautics Commits To Jotne Interoperability Solutions Based on STEP/PLCS

17 December 2009

Jotne EPM Technology, an Interoperability Solution Company, announced an agreement with Lockheed Martin Aeronautics to expand the development and deployment of an advanced System for Simulation Data Management (SimDM) using the STEP/PLCS standards, ISO 10303.

The SimDM project will provide a functioning collaboration server with the ability to distribute timely, accurate and complete product data, based on ISO 10303-209 (AP209) in support of aircraft, land vehicles, and ships allowing users such as national ministries of defence and air logistics centers to have access to simulation information. It also provides users the ability to combine Product Data Information that will interface with Lockheed Martin’s core engineering and simulation off-the-shelf CAD and CAE applications.

“Companies investing in data exchange capabilities based on interoperability standards will greatly benefit from its ability to retain digital product data for long periods of time – greater than 50 years, said Dr. Mike Jahadi, Technical Fellow at Lockheed Martin Aeronautics.

The objective of the SimDM project is to help solve the current constraints on long term data retention of information using an internationally-recognized standardized format, enabling cost-effectiveness, streamlined processes and improve efficiencies. “Jotne is excited about this new project opportunity and we are extending our 10 years’ experience working together with Lockheed Martin”, said Jotne Vice President Kjell Bengtsson.

About Jotne EPM Technology

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Jotne EPM Technology is a member of the Jotne Group, specializing in Logistics Information Technology. Since 1990 the company has developed database solutions to handle standards such as ISO 10303 STEP, PLCS, ASD 1-5000 series etc. These are open specifications with public availability used by aerospace, space and defence-related industries to manage information about complex systems. Jotne has a staff of about 300 people, and its IT products are used by clients all over the world, including the US Department of Defense, the European Space Agency and leading aerospace/defence/space contractors.

More information: <http://www.jotne.com>

About Lockheed Martin

Headquartered in Bethesda, Md., Lockheed Martin is a global security company that employs about 140,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services. The corporation reported 2008 sales of \$42.7 billion.

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Loongson Achieves First-Pass Silicon Success on High-Performance CPU with Synopsys CustomSim Circuit Simulation Solution

8 December 2009

[Synopsys, Inc.](#) announced that Loongson Technology Co., Ltd. (Loongson) (funded by the Institute of Computing Technologies of the Chinese Academy of Sciences) achieved first-pass silicon success on its 65-nanometer, multicore, high-performance Loongson-3 CPU design using Synopsys' CustomSim™ circuit simulator. The CustomSim solution was successfully deployed for timing and dynamic power simulation of advanced full-custom blocks, PLL, HyperTransport, register file, and content-addressable memory (CAM). The CustomSim solution's SPICE-level precision and higher performance versus other FastSPICE tools enabled Loongson to achieve first-pass silicon success with 3x faster verification turnaround time.

"The gigahertz clock speed and multicore architecture of the Loongson-3 CPU required precise timing and power simulation to verify its aggressive design targets," said Dr. Hu WeiWu, principal scientist and program manager of the Loongson project. "Synopsys' CustomSim circuit simulation technology delivered the highest accuracy and performance compared with the other simulators we evaluated. Using CustomSim, we significantly shortened the verification time for the complex custom blocks and achieved first-pass working silicon with 3x overall reduction in the full custom design cycle."

The CustomSim solution unifies the best-in-class simulation technologies of NanoSim®, HSIM® and XA with added multicore processing capabilities. For full-chip verification, the CustomSim solution is tightly coupled to the VCS® functional verification solution via a Direct Kernel Integration and is also combined with a unified analog/mixed-signal (AMS) verification environment which simplifies usability through a common set of inputs, outputs and device models.

"Advanced processor design companies like Loongson need high performance and accurate simulation to meet competitive performance and power specifications," said Farhad Hayat, senior director of marketing, analog/mixed-signal group at Synopsys. "The robust simulation technologies and advanced analysis features in CustomSim enable our customers to realize tangible verification benefits for a wide range of custom and analog/mixed-signal designs."

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Lucchini Poland Selects Epicor®

19 November 2009

Poland's largest manufacturer of wheels, axles and railway sets, Lucchini Poland, is implementing Epicor 9, the next-generation enterprise resource planning (ERP) solution from Epicor Software Corporation. Epicor will streamline all of Lucchini's business processes including management of manufacturing, logistics, quality control, service and finance. The implementation will be carried out by Epicor Software Poland.

[Epicor](#) will help the company operate even more efficiently, especially when it comes to production planning, management, and quality control; the latter being of great importance. Lucchini is famous for the excellent quality of its components, such as monoblock railway wheels—recognized with the Srebrne Godło QI 2009 award—as well as axles and wheel sets. Epicor will also support Lucchini in efficient project management. In this particular case, projects will be used to smoothly manage long-term contracts with customers. For Lucchini, the implementation of Epicor configurator application is of particular importance, as it will enable Lucchini to prepare a complete product at the same time as the sales offer is drafted, including the selection of sub-assemblies. Epicor is equipped with a Manufacturing Execution System (MES) which enables Lucchini employees to capture data via touch screens directly in the manufacturing module, to facilitate and accelerate their work.

“[Lucchini](#) has been present in the Polish market since 2003 and is currently the largest manufacturer of wheels, axles and railway sets in Poland,” said Mariusz Wyrzykowski, director of the management accounting and planning department for Lucchini Poland. “Our products are aimed primarily at companies manufacturing rail vehicles, such as railway or tram cars and train sets. Lucchini keeps investing in state-of-the-art manufacturing equipment to meet the growing volume of orders. The investment in an ultrasound flaw detector, specially designed by engineers from the Lucchini RS group, which helps prevent material defects, is the best illustration of our attention to ensuring maximum product quality.

“Another step towards optimization of business processes is the purchase and implementation of an integrated ERP system from Epicor, tailored to our needs. Our goal is to improve our operations with regards to management of manufacturing, logistics, finance, quality control and service. This will reinforce our market leading position.”

“The philosophy and technology behind Epicor 9 redefines the quality of ERP systems,” said Marcin Sokołowski, senior marketing manager for Epicor Software Poland. “It is based on a second-generation service-oriented architecture (SOA), combining functionalities offered by nine of our previous products. This is why we believe that our next-generation solution can help Lucchini, a very innovative company, to operate even more efficiently. It is also notable that Epicor will streamline all areas of operations of a company which is an undisputed market leader and the largest provider of wheels, axles and railway sets in the Polish market.”

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Omnify Software Streamlines Design and Manufacturing Processes for Avid

7 December 2009

CIMdata PLM Industry Summary

Omnify Software announced that **Avid®** has implemented the Omnify Empower PLM solution to streamline its product design and manufacturing processes. The company selected Omnify Software for its open integration platform and ability to cost-effectively scale to accommodate additional users. Avid is currently integrating Omnify with its SAP® application to automate data sharing across both applications.

Avid creates the technology that people use to create the most listened to, most watched and most loved media in the world. The company was looking for a way to improve product development efficiencies in order to maintain its high level of product quality, and simultaneously create a unified environment for its global product development teams to easily find and share product information in real-time.

After researching PLM vendors over a five-month period, Avid selected the **Omnify Empower PLM** solution for features such as integrated **Engineering Change Order (ECO) processing**, **Bill of Material (BOM) processing and management**, and **document management**. "Omnify Software provided the most cost-effective solution that met all of our needs for a PLM system," stated Peter Hagearty, director of quality and technology for Avid. "In addition, the fact that Omnify reaches out to the customer for new features and functionality made their solution the most appealing to Avid."

Integral to Avid's process improvement was the elimination of duplicate data entry into existing enterprise systems. Omnify's ability to integrate with the company's SAP application provided the solution Avid required. All new parts and ECOs are created and managed in Omnify and then automatically pushed to SAP, along with associated documentation and compliance information. In turn, cost data from SAP is automatically uploaded into Omnify for engineers to access early in the design cycle, helping them to make better design decisions.

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SAMSUNG Electronics Co. Saves up to 90% Engineers' Time with ESI's VisualDSS

8 December 2009

[ESI Group](#) announced the recent implementation of a Simulation-Based Design environment in Samsung Electronics Corporation's (SEC) Visual Display division. The unified Simulation-Based Design environment relies on [VisualDSS](#), [ESI](#)'s end-to-end Decision Support System enabling companies to build and manage simulation models for multi-domain usage, to manage simulation content and data, and to automate project workflow.

To successfully complete the project, different existing CAE solutions were integrated to [VisualDSS](#) among which [Vdot™](#), [ESI](#)'s project monitoring and execution platform optimizing development processes. The integration of [Vdot™](#) into [VisualDSS](#) resulted in obtaining the first industrial version of [ESI](#)'s Project Team Manager. The Project Team Manager was fully web-enabled, thereby allowing engineers to easily access standard, automated processes and workflows.

The other options which were incorporated to [VisualDSS](#) include:

- * Interface with a third party portfolio of PLM solutions for guided CAE automation such as auto meshing and auto assembly
- * Job submission
- * Automatic generation of standard reports
- * Interface with a third party optimization tool
- * Interface with SEC's internal Enterprise Resource Planning (ERP) system

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* Process template for CAE automation to facilitate SEC's most common analyses: Mold Pressure and Wobble analyses

The project involved [ESI](#) engineers and experts on the one hand and CAE and IT experts from SEC on the other, ensuring the timely delivery of the complete system according to production usage specifications.

To measure the success of this implementation, SEC tested the simulation data management system with the design of a new Samsung visual display model: an LCD television screen. SEC observed an outstanding reduction of the loading time in the design process. Indeed, the Mold Pressure analysis time was reduced by 90% and the Wobble analysis by almost 95%. Along with these measurable benefits, SEC was able to widen the scope of its design investigation while maintaining the traceability of the data and content. The unified Simulation-Based Design environment in place served thus as a decision-making tool for SEC management.

In addition, SEC experienced improved work efficiency for the visual display team who was able to verify the effect of component design changes of the entire LCD model much faster than prior to the implementation.

*“Using guided CAE automation early in the design process enables us to identify the right concepts and verify design changes in order to save time and cost”, declared **Mr. Jeong-Rho Lee**, Senior Engineer at Samsung Electronics Corporation. “As we are very satisfied with ESI's support and assistance throughout the project, we are looking into implementing the simulation data management system in other divisions.”*

*“By integrating Vdot™ and third-party products into our VisualDSS solution, we were able to deliver to SEC a unified Simulation-Based Design environment”, said **Mr. Donghyeob Cho**, Manager of Hankook ESI.*

For further information, please visit: <http://www.esi-group.com/simulation-systems-integration>



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Swedish Defence Material Administration (FMV) Orders Share-A-space®

11 December 2009

In September 2009 Swedish Defence Material Administration (FMV) placed an order for Share-A-space with Eurostep. Share-A-space will replace the current PDB system and is to be used as the system for configuration management of product data at FMV. Share-A-space is accredited at FMV and an upgrade to Share-A-space Release 7 is within the project plan. The Release 7 will allow FMV to run the complete system on Microsoft technology including SQL Server.

The selection of Share-A-space follows an announcement by FMV in 2006 to focus its management of product data for the entire life cycle of products on the standard PLCS, Product Life Cycle Support (ISO STEP AP239). FMV says that the use of PLCS will reduce cost and increase quality during the transfer of product data between industry, FMV and the Swedish Armed Forces, as well as within FMV. Another important reason to select PLCS is the need to manage product data according to a format not dependent on a specific IT system.

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“We are very pleased to receive this order”, says Håkan Kårdén, CEO Eurostep Group. “FMV has been at the forefront of PLCS development and implementation and the time has come to use PLCS in production. The FMV selection of Share-A-space is very encouraging. We have made some strategic decisions the last couple of years with the incorporation of Microsoft technology and partnerships with key system integration companies like Logica. The FMV order shows this is appreciated by the user community adopting PLCS within existing IS/IT and outsourcing frameworks”, ends Mr Kårdén.

For more information, please contact:

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Synopsys Chosen as Primary EDA Partner by Hisilicon

7 December 2009

[Synopsys, Inc.](#) announced that Hisilicon Technologies Co., Ltd., a worldwide provider of ASICs and solutions for communication network and digital media, and a subsidiary of Huawei Technologies, has established Synopsys as its primary EDA partner across its implementation and verification design flows. Hisilicon has signed an expanded business agreement to extend its use of Synopsys' IC Compiler place-and-route technology and DesignWare® IP as well as other tools from the broad spectrum of Synopsys' Galaxy™ Implementation and Discovery™ Verification Platforms.

"Since its founding, Hisilicon has carefully selected the key strategic partnerships that help us deliver high quality ICs and services to our customers," said Teresa He, vice president of Hisilicon Technologies Co., Ltd. "We chose to partner with Synopsys because of their technology and proven ability to help make us successful. By helping us deploy advanced technologies such as the VMM verification methodology and advanced chip synthesis to improve design and verification productivity, Synopsys has reinforced our confidence in its short- and long-term technical leadership."

"Within a relatively short period of time, Hisilicon has established itself as one of the premier fabless IC design companies in China, and we are grateful to play a supporting role in their success," said John Chilton, senior vice president of marketing and strategic development at Synopsys. "By increasing their usage of Synopsys tools, IP and services, Hisilicon will be able to continue to aggressively focus on bringing differentiated network communications and digital media silicon solutions to market."

With this expanded agreement, Hisilicon has broad access to tools and IP from Synopsys, including the Galaxy Implementation Platform's IC Compiler place-and-route technology, DC Ultra® RTL synthesis, DFTMAX™ compression, Formality® power-aware equivalence checking, PrimeTime® SI signal integrity analysis, PrimeTime PX power analysis and StarRC™ parasitic extraction; the Discovery Verification Platform's VCS® with MVSIM voltage-aware simulator and HSPICE circuit simulator, and MVRC voltage-aware static rule checker; System Studio algorithm design and analysis; and DesignWare® IP for PCI Express 2.0, SuperSpeed USB 3.0 and DDR2/3.

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Vitesse Expands Deployment of Magma's Talus 1.1 Digital Implementation System

8 December 2009

[Magma® Design Automation Inc.](#) announced that Vitesse Semiconductor Corporation, a leading provider of advanced IC solutions for Carrier and Enterprise networks, expanded deployment of Magma's Talus® 1.1 RTL-to-GDSII IC implementation software. A longtime Magma user, Vitesse utilizes the Talus platform to incorporate more functionality into ICs while reducing power consumption, turnaround time and development costs.

"We've been using Magma's software for nearly 10 years and have been a beta-test partner for many new products," said Paul Browne, vice president of Engineering at Vitesse. "Magma's unified data model enables a level of integration that helps us improve results and turnaround time. With the Talus 1.1 platform, we believe that Magma is continuing to raise the bar in technology leadership. They have consistently delivered advanced capabilities and exceptional applications engineering support that has allowed us to shorten development cycles of our next-generation devices and meet the growing demand for high-performance, low-power and cost-effective networking ICs."

"Vitesse's expanded use of Talus highlights its ability to integrate and automate analog and digital IC implementation," said Premal Buch, general manager of Magma's Design Implementation Business Unit. "We are committed to continuing to provide Vitesse with advanced software solutions that enable its designers to reduce power, turnaround time and development costs."

Working Together for More Efficient Analog/Mixed-Signal Design

Vitesse's chips incorporate a significant amount of analog circuitry. In an effort to control the costs of developing innovative and differentiated mixed-signal products, Vitesse is working with Magma to establish more efficient flows. Vitesse will provide important feedback that Magma will use to enhance its line of analog/mixed-signal products.

"To enable Vitesse and other leading semiconductor companies to deliver next-generation ICs, analog/mixed-signal design must evolve much more rapidly," said Anirudh Devgan, general manager of Magma's Custom Design Business Unit. "Magma's Titan analog/mixed-signal platform already offers significant performance and turnaround-time advantages and is qualified to support TSMC's 65-nm Interoperable Process Design Kit (iPDK). The feedback we get by working with Vitesse will help us more quickly enhance the Titan product line."

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Product News

Agilent Technologies' New GoldenGate Release 4.4 Accelerates Advanced Node CMOS RFIC Design

8 December 2009

Agilent Technologies Inc. announced the release of its RFIC simulation, verification and analysis software -- [GoldenGate version 4.4](#). This release extends Agilent's offerings in advanced node RFIC design with enhanced performance, new key stability and yield analyses, and RF extensions to mixed-signal simulation. In addition, the new release brings performance and flexibility updates to its wireless standards-based virtual test bench capability.

"Advanced node RFIC design makes you rethink what's important from a simulation point of view," said Paul Colestock, product planning and marketing manager with Agilent's EEs of EDA organization.

"GoldenGate version 4.4 delivers improvements for just about every important aspect of RFIC design in advanced CMOS technology nodes."

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Agilent's GoldenGate version 4.4 delivers the following updates to key RF design analyses:

- performance enhancements for advanced node RFIC designs, including a 2x improvement in speed for periodic steady state (harmonic balance) analysis, a new single-sideband noise option, and fast envelope support for wireless virtual test benches;
- periodic steady-state based stability analysis that finds instabilities under large signal conditions for oscillators and driven RF circuits, even with large extracted views; and
- a fast yield contributor analysis that quickly determines circuit yield contributors at any stage of the RFIC design flow -- something not possible with traditional Monte Carlo methods -- allowing designers to gain insight, improve yield and save time by optimizing only what really matters.

Improvements in wireless design verification include:

- comprehensive wireless test bench flow that links system and RF simulation for verification of RFICs;
- analog mixed-signal co-simulation with GoldenGate to accelerate RF-mixed-signal simulations with support for envelope transient analysis with Verilog-AMS;
- RF and package co-design that verifies RFICs with package- and board-level RF passives using more than 150 new components in the Agilent Advanced Design System passive RF component library for GoldenGate; and
- cost effective parallel licensing option for parallel sweep simulation tasks.

U.S. Pricing and Availability

The Agilent GoldenGate version 4.4 is available December 2009 and has a starting price of under \$25,000.

For more information about Agilent's new GoldenGate version 4.4, go to www.agilent.com/find/eesof-goldengate. To request a demo of GoldenGate version 4.4, visit www.agilent.com/find/eesof-goldengate-demo-pr.

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Altair Introduces HyperWorks Durability Simulation Management Solution

7 December 2009

Altair Engineering announced that it has launched the HyperWorks Durability Director. Deeply integrated with HyperWorks CAE platform, Durability Director is a highly tailored, end-to-end solution for managing the many different aspects of durability simulation. This includes duty cycle specification, system-level testing, component analysis, fatigue simulation and specialized post-processing.

"Durability analyses span multiple analysis domains. Managing information across these different domains is quite labor intensive and errors are common," said Rajiv Rampalli, Vice President Software Development, Altair Engineering. "Our goal is to allow engineers to focus on improving their product by eliminating error-prone manual interventions. Durability Director achieves this by providing a single, comprehensive environment to simplify, standardize, customize and automate the durability process. In addition, Durability Director is integrated with Altair's PBS Works on-demand computing software suite

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to increase the efficiency of submitting jobs to and retrieving results from remote HPC systems. We are confident that Durability Director will enable customers to become more agile by solving their durability problems more reliably while simultaneously increasing the consistency of results throughout the enterprise. Durability Director is unique in this regard."

Altair has established itself as one of the leading CAE companies in the world. From being providers of meshing and optimization tools, Altair has matured into a strategic supplier of enterprise CAE solutions that include easy-to-use modeling environments, state-of-the-art solvers and powerful post-processors. The creation of new domain-specific solutions focused on improving client engineering processes is yet another way in which Altair is providing superior value to its customers.

To learn more about Durability Director attend Altair's free webinar on December 8th.

http://www.altairhyperworks.com/EventDetail.aspx?event_id=1252

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Anark Announces Release of Anark Core Platform Version 3

9 December 2009

Anark Corporation announced the release of [Anark Core 3](#), which adds new capabilities to further automate the efficient use of 3D CAD data and manufacturing information within PDM and PLM environments.

New to [Anark Core 3](#) is the ability to more easily connect, combine and publish data that is locked within PLM, PDM, ERP, SCM and MES databases like Siemens Teamcenter®, PTC Windchill®, Dassault Systemes' ENOVIA, Oracle®, SAP®, and others. These new capabilities provide an efficient and easy to deploy solution for unlocking, repurposing, and distributing product, manufacturing, and supply-chain data for downstream design collaboration, manufacturing automation, Model Based Definition (MBD) data exchange, visualization, simulation, and technical documentation applications for consumers both inside and outside the corporate firewall.

Unlike other solutions, Anark Core can automate the entire process of accessing and re-purposing 3D CAD and product information every time there is a significant design or production database change, and ensure that downstream consumers are always working with up to date product design data in real-time. Anark's Adobe-native PDF export offers customers a secure, standards-based, best-in-class solution for archiving, distributing, and exchanging critical product information within the supply chain.

"Anark's new PDM and database Connectors provide a simple-to-use common interface to a wide array of enterprise databases employed by the customer to store and manage their design and production data" said Stephen Collins, CEO of Anark Corporation. "Once these connections have been established, Anark Core 3 can automatically combine relevant 3D CAD, manufacturing data, and related product information required by a specific supplier or class of suppliers. This data can then be delivered within secure, forms enabled 3D PDF documents or other compatible PLM formats such as lightweight JT, CATIA, ACIS or Parasolid. This solution eliminates risks and cost-overruns incurred when downstream users are provided incomplete or out-of-sync product data."

Rockwell Collins has selected the Anark Core platform to enable virtual reality as an integral part of the design process. The ease of use and powerful automation features in Anark Core 3 facilitates the creation of lightweight VR models quickly and efficiently and accelerates the product development process.

New Feature Highlights in Anark Core 3

1. Import CAD and related product information from engineering, manufacturing, and supply-chain databases
2. Native support for import and export of Siemens PLM Software's JT™ data format
3. Embed manufacture-quality B-rep CAD models within secure, standards-based, 3D PDF documents
4. Create annotated work instructions, part catalogs, first article inspection and other technical documents automatically each time a design changes
5. Transform large volumes of 3D CAD models using recursive component and assembly-based batch processing

Anark Core 3 is available now. For more information about Anark Core please visit www.anark.com

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Anark Joins Siemens PLM Software's JT Open Program; Anark Core™ Platform Now Supports the Native JT Format Collaboration

8 December 2009

Anark Corporation announced it has joined the JT Open Program and now supports the native JT™ data format in Anark Core Platform version 3.

The JT Open Program is an industry initiative sponsored by Siemens PLM Software, a business unit of the Siemens Industry Automation Division and a leading global provider of product lifecycle management (PLM) software and services. The JT Open Program was created to help members leverage the benefits of open collaboration across the extended enterprise through the adoption of the JT data format. JT is a widely used lightweight data format for sharing vital product information--including detailed 3D product geometry--to facilitate effective enterprise-wide collaboration throughout a product's lifecycle. Many academic institutions and major manufacturing enterprises spanning aerospace, automotive, consumer products and several other industries have successfully adopted JT for the purposes of visualization, collaboration and data sharing.

Anark's membership in the JT Open Program and support within Anark Core for both import and export of B-rep and mesh-based data in the JT format will create new opportunities for manufacturers and supply chains to efficiently extract additional value from their 3D CAD assets. Combined with the ability to import CAD models from popular MCAD design environments like CATIA, Inventor®, NX™, Pro/ENGINEER®, Solid Edge® and SolidWorks®, Anark Core's ability to read and write 3D CAD models in the popular JT format provides a valuable bridge to a broad array of manufacturing automation, data exchange, collaboration, and visualization applications enabled with JT.

Anark Core's support for the JT format enables manufacturers to generate visual work instructions for manufacturing, parts catalogs for product support, and secure documents for design review and supply chain collaboration.

"Anark's membership in Siemens PLM Software's JT Open program is an exciting development for Anark and our customers" said Stephen Collins, CEO of Anark Corporation. "Anark is committed to providing cost-effective solutions that enable manufacturers to extract maximum value from their 3D

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CAD assets and critical manufacturing information across the extended enterprise. Support for the JT format is an important addition to the capabilities of Anark Core and expands the range of point applications that can be served with JT source data."

"We are proud to welcome Anark as the latest member of the JT Open Program," said Rich Ramsey, vice president of Partner and Components Marketing, Siemens PLM Software. "The program's continued growth combined with the worldwide adoption of JT throughout the manufacturing industry and the recent acceptance of the JT documentation as the world's first ISO specification for 3D visualization in the PLM domain, are establishing JT as the common global language for PLM."

About The JT Open Program

Membership in the JT Open Program is available to any and all end user corporations, independent software vendors (ISVs), academic institutions and non-profit industry organizations.

Additional information about JT and the JT Open Program can be found at <http://www.jtopen.com>.

For more information about Anark Core please visit <http://www.anark.com>.

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ANSYS 12.1 Enhancements Support Fast Product Design and Validation

7 December 2009

ANSYS, Inc. announced the availability of ANSYS® 12.1 technology to support customers in Simulation Driven Product Development™. This latest release incorporates tools that further automate the product development process, making it easier to create designs that will succeed in the marketplace. In addition, ANSYS 12.1 extends the integration of its products with several best-in-class industry applications — for electronics, polymer and glass-forming, and hydrodynamic applications — into the ANSYS® Workbench™ environment, resulting in faster modeling times and an unparalleled breadth of cross-physics integration. These enhancements and others can help organizations develop more innovative products, lower development and manufacturing costs, and accelerate time to market.

In April, ANSYS released version 12.0 of its integrated technology, which marked a new direction in advanced single-physics and multiphysics analysis. An updated version of the company's simulation platform, ANSYS Workbench, was part of the release and provided integrated support for additional world-class ANSYS solvers. The platform also delivered greater flexibility in how simulation procedures are defined and introduced drag-and-drop multiphysics problem setup. Smart Engineering Simulation™ delivered by ANSYS 12.1 enhances this complete system development by automating the design and analysis cycles. Such automation enables parametric studies and design optimization across multiple physics, increases the accuracy and completeness of virtual prototypes, and allows for capture and reuse of simulation processes and data.

New to release 12.1 are tools that extend the already existing capability of real-world simulation authoring in the ANSYS Workbench platform, introducing the ability to record, customize and automate analysis steps through journaling and scripting. Journaling captures operations that modify data in an ANSYS Workbench simulation session and records them in a journal file. Such a file can be replayed to return the state of a resumed ANSYS Workbench session. Alternatively, a journal can be modified to change or incorporate additional operations, which are referred to as scripting. ANSYS Workbench journaling and scripting allow users to easily replay previously recorded journals or to reconstruct previously created projects, automate repetitive tasks or execute simulation projects in batch mode. The

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new automation and customization solution now links all ANSYS Workbench integrated solver and modeling technologies.

“ANSYS 12.1 software leverages these new capabilities within the ANSYS Workbench environment so customers have additional unique opportunities to find the best designs, in the shortest time, and gain a competitive edge in their global marketplace,” said Jim Cashman, president and CEO, ANSYS, Inc. “Smart Engineering Simulation is about finding the best possible solution for the real world — not the world that exists in a vacuum — in the least amount of time using the fewest resources, enabling customers to study product designs from a multiphysics viewpoint. The automation capabilities available in version 12.1 can be leveraged within the framework itself, through the integration of other ANSYS technologies into ANSYS Workbench, and via external tools.”

A hallmark of the ANSYS portfolio is the integration of products — such as structural mechanics and fluid dynamics — within ANSYS Workbench to enable truly coupled physics analysis. For release 12.1, ANSYS integrates three of its industry-specific applications within the ANSYS Workbench framework — for electronics, polymer and glass-forming, and hydrodynamic analyses. This integration extends automation and process compression of the platform’s geometry, meshing, parameters and post-processing solution to these industry segments. With ANSYS® Icepak®, which is used for rapid creation of complex electronic assembly models, this integration results in MCAD connectivity and the ability to create multiphysics thermal–stress solutions using ANSYS® Mechanical™ software. In polymer processing and glass-forming applications, the integration of ANSYS® POLYFLOW® software gives die engineers the ability to predict stresses that occur during cool-down following high-temperature production processes. ANSYS® AQWA™ users — who study loads caused by waves on offshore structures and marine vessels — can benefit from the direct linkage to ANSYS® DesignModeler™ through importing of external CAD geometry and using geometric parameterization.

Another significant framework enhancement at release 12.1 is the External Connection add-in, which allows applications that are not yet integrated with ANSYS Workbench to communicate with the framework by sharing parameters in the workflow. By enabling easy data transfer, the add-in allows external applications to take advantage of the automation that ANSYS 12.1 provides. The External Connection triggers access to other ANSYS Workbench functionality, including design of experiments, sensitivity and six sigma design studies.

The latest-generation ANSYS Workbench framework was purposely designed so it could easily integrate with other software tools in a customer’s design process. Organizations already are realizing clear benefits from using the environment. “The new schematic interface of ANSYS Workbench provides a clear view of the simulation project and excellent understanding of the process that defines the simulation,” said Riccardo Testi from Piaggio, which has been using the platform introduced with [ANSYS 12.0](#). “In addition to being very intuitive to set up, the schematic is an excellent information tool that shows others — even those not involved in setting up the simulation — the steps of the simulation, what tools are used and where data is exchanged.”



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Aras is First PLM Software Solution Enabled on Microsoft Windows Server 2008 R2 and Windows 7

8 December 2009

Aras® announced the availability of the Aras Innovator® suite of PLM software solutions enabled on Microsoft Windows Server® 2008 R2 and Microsoft Windows® 7 offering customers enhanced

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security, as well as innovative user interface features and reliability improvements. By being first to take advantage of the latest Microsoft platform technology advancements Aras is delivering the most scalable, reliable, and secure enterprise PLM software solution available on the market today.

“Our ISV community is alive with innovation, and we’re committed to helping our partners drive the next generation of software experiences,” said Ross Brown, Vice President of ISV and Solutions Partners for the Worldwide Partner Group at Microsoft. “Adding compatibility for the latest Microsoft operating systems helps ISVs to stay ahead of the competition and give their customers access to cutting-edge technologies.”

“Aras is excited to be both the first enterprise PLM software suite and the first open source solution enabled on Microsoft’s new operating system platforms,” said Peter Schroer, President of Aras. “Making our application compatible with Microsoft Windows Server 2008 R2 and Microsoft Windows 7 helps us offer our customers compelling benefits including full support for multi-core processing, improved security and reliability features, sophisticated management functionality, and advanced data center virtualization with Hyper-V.”

[Aras](#) Innovator is designed and developed on Microsoft Windows Server 2008 R2 and Windows 7 to take advantage of the innovative and robust capabilities offered for global corporations that require significant scalability, high availability, and comprehensive administration. By combining advanced functionality with an enterprise open source approach Aras is able to deliver a truly unique PLM value proposition to companies of all sizes: better PLM software solutions that eliminate PLM license expenses forever.

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ArchiCAD 13 Turkish Version Released

9 December 2009

GRAPHISOFT announced that the Turkish version of ArchiCAD® 13 has been released.

The Turkish version is the 21st in the release schedule after the already released International, German, US, Australian, New Zealand, French, Italian, Austrian, Hungarian, Finnish, Russian, Norwegian, Swedish, Japanese, Spanish, Portuguese, Dutch, Polish, Czech, and Greek versions of ArchiCAD 13. For more information, please visit www.bilkom.com.tr. Other localized versions will be released during the fall.

Shipping starts on December 11.

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Berkeley Design Automation Announces Analog FastSPICE RF; Industry’s First True SPICE Accurate Device Noise Analysis for RF Circuits

8 December 2009

[Berkeley Design Automation, Inc.](#) announced Analog FastSPICE RF (AFS RF), the industry’s first true SPICE accurate device noise analysis for RF circuits. Available immediately, AFS RF accurately analyzes nanometer-scale device noise impact for all types of pre-layout and post-layout circuits, ensuring early insight into its impact on performance, power, and area.

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Prior to AFS RF, designers have had to use limited-spectrum RF tools that can only approximate device noise impact on RF circuits. Such approximations are increasingly inaccurate with decreasing process geometries, often becoming grossly inaccurate in nanometer-scale circuits. Particularly sensitive are circuits with sharp transitions (e.g., switched-capacitor filters, charge pumps, and dividers), high-frequency circuits (e.g., RF front-end blocks), and oscillators. Without accurate analysis, designers have to include expensive design margin or risk missing specifications in silicon.

Utilizing the industry's first full-spectrum device noise analysis engine, Analog FastSPICE RF provides true SPICE accuracy every run. For complex circuits it is also 5 to 10 times faster than traditional RF tools that can only approximate device noise effects. AFS RF key features include:

- Device Noise Analysis Advisor (DNA Advisor) to characterize DNA requirements
- High-capacity periodic steady state (PSS) for >100K-element post-layout circuits
- Full-spectrum periodic noise analysis (pnoise) that provides true SPICE accuracy
- Full-spectrum total oscillator device noise analysis with phase and amplitude noise
- Harmonic balance (HB) for fast single-tone analysis of moderately nonlinear circuits

"We have been using the AFS Platform for the last two years for full-circuit transceiver verification and more recently transient noise analysis of our analog/RF blocks," said Alan Wong, Head of IC Design at Toumaz Technology. "AFS RF delivers full-spectrum periodic noise analysis, and does not trade off accuracy for performance. AFS RF allows us to analyze our pre-layout and post-layout RF blocks, delivering true SPICE accuracy and 5x-10x speed-up over traditional RF analysis tools."

"Full-spectrum periodic noise analysis is critical for accurate characterization of device noise in nanometer analog/RF designs." said Dr. Boris Murmann, Assistant Professor in the Department of Electrical Engineering at Stanford University, and renowned mixed-signal design expert. "Without accurate device noise analysis, designers need to add significant margin to ensure performance. This can be very expensive. For example, adding just 0.5 bit of margin (3dB SNR) in a noise-limited circuit will double the required power."

The Analog FastSPICE Platform (AFS Platform) is the industry's only unified circuit verification platform for analog, mixed-signal, and RF design. It always delivers true SPICE accurate results, while providing 5x-20x higher performance than traditional SPICE, >10 million-element capacity, and the industry's only comprehensive device noise analysis. The AFS Platform is a single executable that uses advanced algorithms and numerical analysis to rapidly solve the full-circuit matrix and original device equations without any shortcuts. The AFS Platform includes licenses for AFS Nano SPICE simulation, AFS circuit simulation, AFS Co-Simulation, AFS Transient Noise Analysis, and AFS RF Analysis.

"Competitive analog, RF, and mixed-signal designs require pushing the limits of performance, power, area, and efficiency- and our customers tell us device noise in RF is becoming a killer," said Ravi Subramanian, president and CEO of Berkeley Design Automation. "With the introduction of AFS RF, we are now proud to deliver the industry's first full-spectrum periodic analysis technology for complex analog and RF circuits. Extensive validation of this breakthrough technology from our customers further reinforces our strong track-record in delivering silicon-accurate analysis and industry-best diagnostics for nanometer analog and RF designs."

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CONTACT Software Redefines CAD Data Management

11 December 2009

CONTACT Software introduced a fundamentally new architecture for CAD data management and the collaborative and multi-company product development environment. In contrast to the conventional and common PDM/PLM architecture, the WORKSPACES technology assigns product developers key priority as warrantors for a company's innovation leadership. Designed open from scratch, the architecture simultaneously supports both teamwork within a company and collaboration with external partners and sub-contractors. First pilot applications with customers have been successfully implemented and as of January 2010, the new solution will be generally available.

With its Workspaces concept, CONTACT follows a decisively different approach to conventional, centrally organized ERP and PLM systems. These are considered by many CAD users as being too complex, cumbersome, and hardly user-friendly – with the effect that work-in-progress is kept too long in local storage and is thus not accessible for Concurrent Engineering purposes. Workspaces solve this contradiction between designer's demands for creative freedom and company's need for complete and validated data. Integrated with leading CAD systems, the Workspace Manager provides a universal interface with ultimate intuitive and supportive features to synchronize then central repository with user's local workspaces.

“Depending in the domain and task, users have special and individual requirements. A system's architecture and the tools based on it must reflect this division of labour in a company. Workspaces allow engineers and teams to organize themselves around their individual needs. Only that warrants satisfied users and only satisfied users ensure high data quality and safe processes” emphasizes Karl Heinz Zachries, managing director of CONTACT Software GmbH.

The open Workspaces architecture at the same time offers exceptional functions supportive to collaboration with partners and sub-contractors. It offers companies with intensively distributed engineering supply chains a key to simple, smooth product data exchange. Here, the focus is on Workspaces in its function as product data container, to be flexibly utilized by the companies according to their specific requirements: as a simple content container, in conjunction with Workspace Manager, or connected to their own PLM and ERP system. Collaboration with third-party companies means simply synchronizing the related Workspaces contents. Again, the open architecture of Workspaces allows varying procedures, to be applied according to demand: Data exchange via e-mail, EDI, peer-to-peer networks, or the use of a portal or an SOA Access Point of the central PLM backbone. Users thereby benefit from dedicated functions based on the open workspaces structure. For example, a delta update will recognize already known models and versions and will assist the user – upon request – in follow-up tasks such as creating a new version within the own PLM system.

„Our Workspaces architecture addresses how developers of complex products can be optimally supported. The puppet-on-a-string picture in the guise of a PLM system will fail”, vows Karl Heinz Zachries. “Designers need easy-to-use, intelligent tools to enhance and not to inhibit their ability to innovative”.

More about features, use cases and benefits of CONTACT workspaces at www.contact.de/workspaces.

An article in the current Product Data Journal - which is available [in English](#), too - highlights the potential of this open CAD integration architecture.

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CIMdata PLM Industry Summary

Coustyx by ANSOL now Part of Altair's HyperWorks Enabled Community

8 December 2009

Altair (www.altair.com) announced the addition to its HyperWorks Enabled Community (HWEC) of Coustyx from Advanced Numerical Solutions, LLC (ANSOL), a developer of solutions for design and analysis of mechanical systems. HyperWorks users can now download the latest version of Coustyx from the HWEC website at www.hyperworkscommunity.com and use Coustyx at no incremental cost through their existing HyperWorks software license system. This brings the total number of applications available under the HyperWorks platform to 54 including 26 third-party software applications such as Coustyx.

Coustyx is a next-generation analysis software that integrates Advanced Boundary Element formulations with Fast Multipole Method to yield fast, accurate solutions to very large problems in acoustics, across a wide frequency range. Coustyx is developed with support from the National Science Foundation.

“ANSOL looks forward to accelerating the adoption of Coustyx into the global Altair customer base through the HyperWorks Enabled Community,” said Rajendra Gunda, Project Scientist for ANSOL. “Coustyx is a complimentary solution to the HyperWorks suite which allows customers to create better products.”

To date, over 265 companies worldwide have joined the HyperWorks Enabled Community, maximizing their current investment in HyperWorks licenses by giving their engineers and designers flexible access to a growing pool of leading technology solutions.

HyperWorks is a suite of enterprise analytic applications that includes statistical, database, visualization and simulation software to help companies make better business decisions. Its patented HyperWorks Units licensing technology allows users to transparently share software licenses globally across a broad suite of applications.

“Altair is excited about this new partnership with ANSOL, it provides our customers with an easy to use, robust and cost effective solution for simulating acoustic phenomena”, said Michael Humphrey, Vice President of Altair's Global Partner Programs. “With the addition of Coustyx into the HWEC, Altair is extending our portfolio of solutions for engineers concerned with minimizing the Noise, Vibration and Harshness of their products.”

About Advanced Numerical Solutions, LLC (ANSOL)

ANSOL was founded in 1990. ANSOL's vision is to develop innovative solutions for design and analysis of mechanical systems. ANSOL has an established track record of successful commercialization of its innovative technologies. Their product offerings include -- Coustyx for acoustic analysis, and Calyx suite of products for transmission design. They also provide consulting services. To learn more, please visit <http://www.ansol.com>.

For more information about the HyperWorks Enabled Partner Program, visit <http://www.hyperworkscommunity.com>.

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D-Cubed: Latest release of the CDM, Version 41.0

November 2009

CIMdata PLM Industry Summary

Siemens PLM Software announced the latest release of the D-Cubed Collision Detection Manager (CDM), a software component that accurately and rapidly detects collisions and computes clearances. New enhancements specific to version 41.0 are listed below. [A full product description can be found here.](#)

Performance enhancement: collisions and clearances involving rolling ball surfaces

Rolling ball surfaces are defined by sweeping a sphere along a curve. They are commonly used in solid and surface modelling applications to create pipes, and also rolling ball blends between adjacent surfaces. This release sees improvements to the performance when computing collisions and clearances on models containing rolling ball surfaces that are interacting with parametric or faceted surfaces.

Functionality enhancement: collision computations

Version 34 of the CDM introduced the capability for an application to specify a part, or a collection of parts, and a direction, and have the CDM compute whether a collision would occur if the parts moved in that direction. The benefits are performance and accuracy enhancements, as the CDM no longer has to perform a collision calculation at each of multiple steps along the path to determine the same result, risking stepping over a relevant collision in the process. However, the ability to test for such collisions along a path did not previously support combinations of wire parts against surface-based or solid parts. This functionality has been added in version 41.

Reliability enhancements: faceted collisions

One of the strengths of the CDM is that it can perform its computations on models containing faceted or accurate geometry. The accurate computations have long been a core strength, but in recent years more attention has been paid to the faceted algorithms. Significant improvements to the reliability of faceted collision computations in various unusual, but still important, configurations have been made.

Performance enhancement: use of link time code generation

Link time code generation, also known as **whole program optimization**, is now the standard process used when compiling and linking DLLs for the Windows platform. The result is improved performance when using these versions of the CDM.

About the D-Cubed CDM

First released in 1999, the CDM enables end-users to interact with their models with much improved realism and solidity, greatly reducing errors caused by interpenetrating parts. Operating in assembly, mechanism, machining and measuring simulation environments, it offers a range of algorithms to interactively detect collisions and compute clearances, even on large, complex assemblies. Performance is particularly excellent for repeated computations on models that are in motion. The CDM is compatible with any application as it is independent of any particular modeler or model format, operating on exact, faceted, solid or surface representations.

About Siemens PLM Components; Parasolid and D-Cubed

PLM Components are software tools that promote interoperability in CAD, CAM, CAE and PLM applications. Siemens PLM Software develops these components, uses them throughout its own applications and licenses them to independent software vendors and end-user organizations. PLM Components include the Parasolid and D-Cubed products, widely used technologies that provide 3D part and assembly modeling, editing and interoperability, 2D/3D parametric sketching, motion simulation, collision detection, clearance measurement and visualization functionality. Applications include

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mechanical CAD, CAM, CAE, mold design, sheet metal, AEC, GIS, structural, plant and ship design, CMM, reverse engineering and sales configuration. For more information, please visit www.siemens.com/plm/open/

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D-Cubed: Latest release of the AEM, Version 41.0

November 2009

Siemens PLM Software announced the latest release of the D-Cubed Assembly Engineering Manager (AEM), a software component that provides a more realistic and productive assembly environment. New enhancements specific to version 41.0 are listed below. [See the full product description.](#)

Reliability enhancement: refined contact algorithms

The AEM simulates the interactions between rigid bodies in motion in assemblies and mechanisms. It uses sophisticated collision detection algorithms to establish contact points between objects, and through its integration with the D-Cubed 3D DCM it resolves the contact constraints that help determine the motion.

When there are multiple touching faces it is likely that the AEM does not need to apply contact constraints to them all. In version 41 the algorithm has been improved to apply contact constraints more selectively, thereby reducing the number of constraints to be solved, and increasing the performance and reliability.

Reliability enhancement: enhanced drag force calculation

The AEM solves a variety of forces between parts in a model in order to help determine the appropriate motion. The drag force is a force applied at a point on a part when a user clicks and drags to interact with the model. In this release the algorithm which determines the appropriate drag force has been improved to ensure that any contacts in the model which need to be removed are done so efficiently.

About the D-Cubed AEM

First released in 2001, the AEM simulates the motion of assemblies and mechanisms. It takes account of the mass properties of parts, the motion caused by a variety of engineering related forces and devices, and the interaction of parts as they collide and push each other around. The AEM is typically integrated at the core of a CAD system and its usage requires no specialist expertise or model preparation.

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D-Cubed: Latest Release of the HLM, Version 41.0

November 2009

Siemens PLM Software announced the latest release of the D-Cubed Hidden Line Manager (HLM), a software component that accurately and rapidly computes hidden line views. New enhancements specific to version 41.0 are listed below. [See the full product description.](#)

Performance enhancement: occlusion computations

Occlusions occur when an edge in the foreground of the view obscures, or occludes, some or all of an edge in the background of a hidden line view. Computing such occlusions is an intensive and technically challenging process, especially where parametric curves such as NURBs are involved. This release sees significant improvements to the occlusion computation times in a variety of demanding configurations, particularly those involving large assemblies.

Reliability enhancement: computing face outlines on tolerant models

As well as computing which portions of edges are visible and hidden, the HLM is able to compute the boundary between the visible and hidden regions of faces, known as face outlines. This can be applied to hatching algorithms, for example, where only the visible regions of a face are to be hatched.

Tolerant models are those which have inaccuracies in their geometric definition. Faces, edges and vertices may not connect consistently to within the model tolerance. Such tolerant geometry is a common side effect of the data exchange process. The HLM employs a range of sophisticated algorithms designed to give reliable results on such inaccurate geometry.

This latest release of the HLM improves the reliability of the hidden line view computation for face outlines produced from tolerant models. The improvements benefit models where the face being outlined is tolerant, or the faces obscuring portions of the outlined face are tolerant.

Functionality enhancement: suppressing the display of segments of edges

Some applications prefer not to display the edges that lie between smoothly connecting faces, except when such edges form an outline in the model, a requirement that is supported by the HLM. However, in some cases, particularly involving tolerant models, an edge can lie between smoothly connecting faces, with some segments (portions) of the edge being part of an outline, but not the complete edge. Previously, the HLM would display the whole edge in these situations. In the latest version, the HLM will suppress the display of those segments of such an edge that do not contribute to a model outline, whilst displaying the remaining segments.

Performance enhancement: use of link time code generation

Link time code generation, also known as **whole program optimization**, is now the standard process used when compiling and linking DLLs for the Windows platform. The result is improved performance when using these versions of the HLM.

About the D-Cubed HLM

First released in 1999, the HLM is a widely deployed hidden line CAD solution. It accurately computes hidden line views, engineering drawings and technical illustrations of parts and assemblies with exceptional performance, reliability and functionality. The HLM is compatible with any application as it is independent of any particular modeler or model format, operating on exact, faceted, solid or surface representations.

About Siemens PLM Components; Parasolid and D-Cubed

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D-Cubed: Latest release of the 3D DCM, version 41.0

November 2009

Siemens PLM Software announced the latest release of the D-Cubed 3D Dimensional Constraint Manager (3D DCM), a software component that positions parts in assemblies, simulates their kinematic motion, and parametrically controls the configuration of 3D sketches and the shape of parts. New enhancements specific to version 41.0 are listed below. [A full product description can be found here.](#)

Functional enhancement: quick abort on over-defined models

In general, larger models take longer to solve than smaller ones. However, the size of the model is just one of several factors affecting the performance of the 3D DCM. A model that is over-defined will generally be slower to evaluate because the 3D DCM will use additional methods to seek out a solution and to generate detailed diagnostic data to help the user to understand why and where the model is over-defined. However, in some situations it may be advantageous for an application to be able to terminate the 3D DCM evaluation early, if a model is found to be over-defined.

In version 41, applications now have two ways to ask the 3D DCM to abort the solve early. Firstly, the 3D DCM can abort when the first over-defined constraint is found. If the abort is possible this option will be the fastest. Secondly the 3D DCM can abort when it has completed the analysis of any over-defined regions. For more information on over-defined regions see the announcement for 3D DCM v40.0.

Functional enhancement: improved support for cones and tori

In many applications the relative position of parts is defined using dimensions and constraints applied to faces. Geometrically these faces are commonly planes, cylinders and spheres. However, they can also be more advanced types such as cones, tori and parametric surfaces.

For applications that use the 3D DCM for direct (non-history based) part modelling the 3D DCM also allows the internal freedoms of geometry to be defined parametrically, for example, the radius of a cylinder. In version 41, the 3D DCM now supports the dragging of the minor radius of a torus and of the half angle of a cone. This allows applications to offer a wider range of interactive parametric operations in constraint based direct modelling.

Performance and reliability enhancements: curve length on planar splines

For applications that need to implement a 3D sketcher, or model cables and wire harnesses, the 3D

DCM can constrain the length of 3D parametric curves, including splines. These curve length constraints can be solved simultaneously with other dimensions and constraints to control the position, direction and curvature of the curve itself and relative to other geometries in the model.

In certain situations, 3D applications need to be able to model curves that are planar, even in the wider context of a 3D model. In version 41, the algorithms to solve planar curves in the 3D DCM have been enhanced to improve the speed and reliability of the solution.

About the D-Cubed 3D DCM

First released in 1995, the 3D DCM is used in most major CAD applications and is widely acknowledged as a leading 3D geometric constraint solving technology. It provides a genuinely three-dimensional, variational (non-sequential) approach to solving a broad range of dimension and constraint schemes. It is the foundation of the latest interactive approaches to assembly part positioning and kinematic simulation, 3D sketching and direct (non-history based) part shape modification.

About Siemens PLM Components; Parasolid and D-Cubed

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Applications include mechanical CAD, CAM, CAE, mold design, sheet metal, AEC, GIS, structural, plant and ship design, CMM, reverse engineering and sales configuration. For more information, please visit www.siemens.com/plm/open.

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Dassault Systèmes Delivers Isight 4.0 for Simulation Automation and Design Optimization

9 December 2009

Dassault Systèmes ([DS](#)) announced the availability of Isight 4.0, its simulation process automation and design optimization solution from SIMULIA.

Isight provides engineers with an open system for integrating design and simulation models, created with various CAD, CAE and other software applications, together into a simulation process workflow. Isight users can use the workflows to run hundreds or thousands of simulations without manual intervention. Using optimization methods such as Design of Experiments, Approximations, and Design for Six Sigma, engineers are able to explore the complete design space to identify optimal performance parameters.

Isight 4.0 provides an Abaqus Unified FEA application component as part of the base Gateway package, greatly enhancing the use of the FEA technology from SIMULIA within Isight process workflows. Enhanced support for scripting has been added for customers and partners who use the Isight component software development kit to develop their own custom components. Also, the Dassault Systèmes software developer community is now extended to support third-party simulation component development for Isight with APIs, tools to improve the process of developing robust third-party components that will provide significant efficiency gains to Isight users.

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"The open, component-based technology in Isight simplifies the integration of CAD and CAE applications into a simulation workflow," stated Steve Crowley, director of product management, [SIMULIA](#), Dassault Systèmes." By leveraging the new features and enhancements in Isight 4.0, our customers will achieve significant efficiency improvements in capturing and automating their simulation workflows. This, in turn, will allow them to dramatically increase the number of simulations they can perform, accelerating their ability to optimize their product's performance earlier in the development cycle."

"Dassault Systèmes' partner program provides our development team with access to software APIs and technical support resources that help us accelerate the development of new components for Isight," stated Jean-Claude Ercolanelli, VP Product Management, CD-adapco. "Integrating STAR-CCM+ into Isight workflows will enhance our customers' ability to perform multidisciplinary design optimization."

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Delcam Launches New PowerINSPECT Offering Easier CAD-Based Inspection

7 December 2009

[Delcam](#) has launched the 2010 version of its PowerINSPECT inspection software, which offers even easier inspection of parts, tooling and prototypes against CAD data. The system is a leading hardware-independent inspection software, with this new version making it even more attractive to users of all types of metrology equipment, including manual and CNC CMMs, inspection arms and optical devices.

In the 2010 version of PowerINSPECT, the creation and editing of inspection sequences has been improved by adding the ability to insert extra points or features anywhere within the sequence, not just at the end. This will be useful for all users but especially for those creating inspection sequences with larger numbers of measurements. It will also make it easier to update complex sequences during long production runs, when process or design changes require modifications to the inspection routine.

The 'simple measures' functionality included in the previous PowerINSPECT release has been extended in the latest version. The range of pre-defined inspection sequences for common measurement patterns has been increased, and simple alignments have been introduced.

The GD&T Wizard has also been improved and simplified. PowerINSPECT now offers the ability to select features from the CAD view, with item types shown by an icon, making selection easier.

PowerINSPECT 2010 includes improved simulation for checking sequences that are to be run on CNC CMMs or to be used for On-Machine Verification. The collision checking has been made more flexible and easier to use, with options to stop the sequence automatically once a collision is detected and to continue the simulation until the next problem is found.

The ability to reuse measurement results has been extended. PowerINSPECT 6 introduced the ability to create a feature from a combination of other features, for example, to combine the results from a series of circles to create the inspection report for a cylinder. PowerINSPECT 2010 builds on this functionality with the new 'point source' feature which gives the ability to define these relationships offline. This improves consistency for batch measurement, with the measurements being able to be reused in the same way for every component.

Finally, labels for reporting purposes can be attached to selected points within point clouds generated by laser scanners. For example, the user could highlight in the report the points that are furthest out of tolerance or could identify critical points in the design for detailed reporting.

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LMS Virtual.Lab Acoustics Rev 9 Takes Acoustic Simulation to the Next Level

8 December 2009

LMS has released the latest version of its acoustic simulation software: LMS Virtual.Lab Acoustics. Packed with the latest innovative solutions and powerful solvers designed specifically for challenging acoustic problems, the latest release of LMS Virtual.Lab Acoustics offers major advancements in terms of solver performance and processing excellence with substantial developments including ray tracing for high frequency acoustics and time-domain BEM, a new time-based method for acoustic problem-solving.

A core development focus has been to expand the FEM acoustic solver so that it can handle huge industrial tasks, including large noise radiation problems. This is possible thanks to PML (Perfectly Matched Layer), a technique that substantially reduces the number of required elements to solve noise radiation mega-problems more efficiently.

Other critical work has occurred in the area of LMS' BEM technology with the addition of a time-domain BEM solver, allowing acoustic engineers to do realistic simulations and gain more insight into time-related acoustic issues. In addition, the new inverse numerical acoustics solution helps determine realistic vibration sources for a better noise and vibration system optimization.

LMS continues to lead the innovation race in the area of Fast Multiple BEM (FMBEM) with the addition of patented ATV (Acoustic Transfer Vector) technology to the FMBEM solver.

With LMS' brand-new ray tracing technology integrated in LMS Virtual.Lab Rev 9, acoustic engineers will be able to handle the full audible frequency range, including sound system optimization in aircraft, train or vehicle interiors.

Enhanced for aero-acoustic engineers, LMS Virtual.Lab Aero-Acoustics Rev 9 adds a variety of new features, such as conservative mapping for more accurate predictions, CFD-based quadruples noise sources, and improved fan formulation to provide ultimately more ways to address flow-induced noise.

LMS customers with active service contracts are currently receiving their upgrades. LMS users interested in the latest version should contact their local LMS representative or see <http://www.lmsintl.com/virtuallab-acoustics-rev9> for more information.

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Mentor Graphics Expands Questa Multi-view Verification Components Library to Support a Larger Set of Standard Protocols

7 December 2009

[Mentor Graphics Corporation](#) announced that the library of Questa® Multi-view Verification Components (MVCs) has been expanded to support additional industry standard protocols: Ethernet up to 40G/100G (IEEE P802.3ba, draft 2.1), USB 2.0 and USB 3.0 and DDR2 (double data rate SDRAM interface). The Questa MVC library dramatically improves verification coverage, and helps speed the functional verification of integrated circuits (ICs) using industry-standard protocols.

Mentor's Questa MVCs allow designers to avoid the pain and expense of creating and supporting their

own verification IP for system-level, TLM-level and RTL-level verification. With Questa MVCs, the verification team is able to connect to any level of abstraction from system to gates – ensuring consistent model behavior and giving the verification team more options to improve performance and increase coverage. The Questa MVC technology also greatly reduces the labor-intensive and error-prone manual interpretation of signal activity. This allows simulation results, from RTL verification, to be viewed as sequences of initiated transactions and responses, with the RTL signal activity correlated to a higher level transaction view of activity.

Each protocol supported by the Questa MVC library includes a verification plan with full coverage metrics that integrates with the Questa verification management system. The verification plan easily integrates into hierarchical full-chip verification plans. Questa verification management provides visibility into the status of the verification process by providing correlation of coverage metrics to the verification plan.

“The MVC library fully supports OVM 2.0 with stimulus generation, reference checking, monitoring and functional coverage for popular protocols,” said Stephen Bailey, director of product marketing for the Design Verification Technology division of Mentor. “The advantage of Questa MVCs is that teams using a coverage-driven verification process such as the one supported by Questa can easily include the protocol verification plan in the comprehensive, hierarchical verification plan.”

Availability

Questa MVC support for Ethernet up to 40G/100G, USB 2.0 and USB 3.0 and DDR2 is available immediately.

Questa Functional Verification Platform

The Questa functional verification platform combines high performance and high capacity with the most comprehensive verification capabilities in the industry. Assertion-based Verification (ABV), intelligent testbench automation, Multi-view Verification Components (MVC), and Coverage-driven Verification (CDV) are supported natively by the Questa platform’s high-performance assertion engine; a modern, high-performance constraint solver; and extensive functional coverage features, including verification management leveraging the Unified Coverage Database (UCDB). Verification of low- power design functionality can be proven in an RTL environment with power-aware functional verification. This full set of advanced verification functionality is enabled by a flexible Open Verification Methodology (OVM 2.0) that delivers unrivaled language and feature support in any design and verification flow.

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Right Hemisphere and Lightmap Introduce Studio Lighting Capabilities for Deep Exploration Authoring Software

8 December 2009

Right Hemisphere® announced a new professional lighting tool for users of Right Hemisphere's Deep Exploration™ authoring software. Lightmap has an easy-to-use, professional lighting application called HDR Light Studio™ and has developed a plug-in version of it specifically for Deep Exploration 6.0 called "HDR Light Studio Live." Right Hemisphere and Lightmap are hosting a free Webinar on Tuesday, December 15 at 10:00 a.m. Pacific time to demonstrate what this tool can do and how straightforward it is to apply to models and scenes.

Available for purchase in January 2010 from the HDR Light Studio Web site, the software plug-in can

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create HDRI light and reflection maps for CG renderings and provide instant feedback to users on their rendered scenes. Users create lighting designs by placing light sources onto a 2D canvas representing a sphere map and interactively modify their properties. As users manipulate the lights on the canvas the shape is automatically distorted in real time so they maintain their shape when mapped onto a lighting sphere.

"As much as 80% of the rendering production process is spent on the creation and optimization of lighting," said Right Hemisphere President and CTO Mark Thomas. "The real-time lighting creation and feedback loop this plug-in enables dramatically reduces the time it takes to create professional quality images that can truly replace traditional photography."

"Deep Exploration is a fantastic product and its environment maps do a good job of lighting models," said Lightmap CEO Mark Segasby. "But we saw an opportunity to add another layer of sophistication to it with what we do best. Our software gives Deep Exploration users more control over their lighting and reflections, and allows them to quickly test and tweak their lighting set ups. This is a classic partnership in which everyone wins, particularly the end user who craves perfection in his final renders or has a client who demands it."

The HDR Light Studio Live plug-in for Deep Exploration 6.0 will be available in two versions: Basic for \$299 U.S. and Pro for \$999 U.S. To learn more about the new lighting plug-in for Deep Exploration, please register for the December 15 Webinar at <http://www.righthemisphere.com/webinars/unreal-realism>.

About Lightmap Ltd.

Lightmap Ltd. is at the forefront of HDRI lighting software development for the CGI industry. HDRI has been around for many years but has been limited to using static HDRI images, until now. Lightmap Ltd. saw the opportunity to use HDR technology in a totally new way to provide lighting and reflection information via interactive environment maps, so 3D artists can light their work with the ease and control of existing CG lighting approaches, whilst using the fast render speed and added realism that image-based lighting brings.

The unique world first software, HDR Light Studio, was launched in February 2009 to critical acclaim and has been adopted by hundreds of leading studios around the globe. For more details about HDR Light Studio and the new HDR Light Studio Live plug-in please visit: www.hdrlightstudio.com.

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Surfware, Inc. Announces SURFCAM V5 Beta Release

9 December 2009

Surfware, Inc. announced that the beta version of the next release of its flagship CAM software, SURFCAM V5, has been completed and is being made available to SURFCAM Beta Users and Resellers worldwide.

"This release of SURFCAM V5 proves to be one of the most significant releases of SURFCAM for NC programmers who require world class precision and control from a CAM system," says Greg Schils, Product Manager of the SURFCAM product suite. "This release continues to build on and extend all the new features and enhancements implemented in SURFCAM V4, with the emphases on 'ease of use' to provide maximum gains in multi-axis programming and machining productivity."

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Some of the new features and enhancements in SURFCAM V5 in 4- and 5-axis programming are the new roughing routines (Multi Pass, Plunge, Morph Pocket, Depth Cuts) along with other options like automatic surface extensions.

In addition to all the multi-axis enhancements are: a new 3-axis Z-finish routine, multiple tool rest roughing, Cview planes for better visualization, selectable operations in the operations manager for posting, set axis/cview gnome representation and an update to the lathe package.

Substantial improvements have also been implemented into the patented TrueMill® toolpath including an updated slicer for better quality toolpaths, a faster toolpath calculation time, intelligent pocket ordering that dramatically reduces overall rapid moves, the ability to turn off the “open pocket” cutting for 3-axis cuts, “depth first” cutting to allow for more efficient tool motion, and pilot hole support for TrueMill operations.

“SURFCAM has been the cornerstone of our business for over 20 years and we will continue to provide CAM solutions with the excellence our customers have become accustomed to receiving from us,” says Alan Diehl, CEO of Surfware. “For many years, we’ve been known for innovation, quality and ease of use. SURFCAM V5 once again confirms this reputation. We look forward to completing beta testing soon in order to bring this much-anticipated release to customers, new and old.”

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The Communications Industry’s First 4th Generation Enterprise Product Management Solution Brings Key Benefits to B2B Product Management for Enterprise Customers and Streamlines the Order to Install Process

8 December 2009

Tribold announced the latest release of its Enterprise Product Management software solution– Tribold 4™. As the only fourth generation EPM solution for CSPs, Tribold 4™ embraces new features and functionality based on direct feedback from customers across the globe that are using the product to run their businesses.

Tribold 4™ brings a rich set of new EPM capabilities in the following five key areas:

B2B Product Management for Enterprise Customers

- **Cost Control** – Enterprise products will no longer be custom-built from the ground-up for each customer, but rather constructed from re-usable assets within the product catalog
- **Manageable Customer Personalization** – Enterprise customer agreements will no longer require complex spreadsheets to manage, but rather centrally maintained with all the possible permutations and options readily available to tailor accordingly
- **Assembly Line Efficiency** – Quoting and configuration of Enterprise customers’ products will no longer be unpredictable in time and outcome, but rather follow pre-defined fulfillment processes that minimize errors and maximize feasibility of the offerings.

Streamlining the Order to Install Process

- **Accurate Offers the First Time** – Find the right offer for a customer faster, based upon centrally sourced & reliable product serviceability/compatibility rules

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- **One-Stop Shopping** – Provide a single point of product truth to any ordering portal (e.g., web, CSR, IVR, etc) regardless of the product scope
- **Fulfillment Success** – Supply the key Order-to-Install systems (e.g., Order Capture, Fulfillment, Provisioning/Activation) with the product definition, rule and service relationship data necessary to successfully complete an order.

Lowering the cost of Integration

- Expanded query services layer
- Published SID formatted model
- Detailed Tribold SID Mapping toolset.

End-to-End Product Life Cycle Management

- Project tracking to specific Product/Service components
- Business Case, Design and Promotions tracking for E2E view across the Product Lifecycle
- Interoperability with enterprise BPM.

PLUS - Tribold 4 continues to focus on the Business and IT users with UI enhancements

- Thin client support to enable more users across the CSP to collaborate directly with the catalog
- 1-touch Cross Catalog Search
- Advanced Query Building tools
- Pre-built and Customizable Reporting.

Catherine Michel, Tribold CTO hailed the new release as leap years beyond other EPM solutions: “We’ve been listening carefully to our customers’ challenges, and in particular at the B2B / Enterprise level. Quite simply, they needed a more reliable and standardized way of managing what is traditionally a very customized assembly of products for their large customers.” Michel concluded: “Tribold 4 is a direct response to these specific challenges and will bring tangible cost control and assembly line efficiency benefits to the end-to-end PLM Process.”

About Tribold

Tribold 4™ is a single, integrated suite of Enterprise Product Management applications that empowers Communication Service Providers (CSPs) to put products at the heart of their business.

Tribold 4™ is based on a Centralized Product & Service Catalog (CPC) and a Product & Service Lifecycle Management (PLM) solution.

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

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TradeStone Extends PLM Capabilities with New Creative Design Module

8 December 2009

[TradeStone Software](#), delivering Merchandise Lifecycle Management solutions that unify the design, sourcing, ordering and delivery of private label and branded goods, announced the general availability of a new [Creative Design module](#) that further extends and strengthens the Company's PLM capabilities.

Currently being implemented at more than a dozen major department store and apparel brand companies throughout North America and Europe, the optional Creative Design module is helping shorten design and development times, improve product quality and color consistency and reduce material and product costs. For existing users of [TradeStone's MLM solutions](#), this module will provide them with one holistic infrastructure starting with designer inspiration for managing the merchandise lifecycle through to delivery.

In today's ultra-competitive world, organizations need to differentiate themselves and increase brand recognition through innovative and exciting designs. Creating a theme for a season, or collaborating on programs and developing packaging, is a daunting task that can make or break a retailer's bottom line.

TradeStone's Creative Design module enables retailers and their partners to collaborate more efficiently on the product design process. Using one solution for managing color, component/material and artwork libraries, defining color palettes, specifying product construction details, tracking samples and building technical specifications, retailers can inspire their brands, develop quality merchandise, reduce cycle times and improve margins.

Key Features of the Creative Design Module:

Web-based solution and intuitive interface that facilitates collaboration across the design process

Single system for managing color, component/material and artwork libraries electronically

'My Stuff' workspace and drag n' drop functionality supports storyboard development

Online creation of sample requests, management of supplier submissions and tracking of evaluations

Real-time communication of detailed product information to Suppliers, Manufacturers and Mills

"Our customers have been pushing us to augment our [existing PLM capabilities](#) so that they can speed time to market with a simplified approach and single system for creative design that extends into product development, sourcing, order management and delivery," said Ann Diamante, Chief Product Officer, TradeStone Software. "Developing new merchandise is a very visual and collaborative process so we were conscious it required a solution that not only supports creativity but makes the whole process of producing a Tech Pack more efficient. This latest release solidifies our position as *the* recognized vendor of choice for PLM solutions in the retail industry."

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VX Corporation Releases Version 14.2

2 December 2009

VX Corporation announced the release of VX 2009 v14.2, which is now available for download from support.vx.com. This release not only contains many enhancements in drafting, modeling and 2-5 axis CAM, but there is a significant performance enhancement to the direct edit shape morph technology and improved sectioning of unhealed imported parts.

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As a step to increase performance, customers can now build a "light-weight" morph feature that can be edited and tweaked more rapidly.

This enhancement is especially important to customers that use shape morphing for non-stylistic applications, like bending and unbending parts, model repair, back draft correction and applying over bend.

VX has always been able to produce section views of unhealed imported parts for quoting and inspection, but this latest enhancement rounds out the tool kit by now supporting bent sections of open shapes.

"These latest enhancements to VX 2009 version 14.2 are just two examples of our responsiveness to our customer needs." said Bob Fischer, VX Vice President Sales and Marketing "We are continually striving to provide customer-driven updates to our software."

Customers running earlier versions of VX 2009 can download and install this update from support.vx.com. Customers running older versions of VX (VX 2008 V13.xx and earlier) can purchase an update to V14 from the VX web store or from their local reseller. Go to www.vx.com and click on the store link.

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ZWSOFT Releases ZWCAD 2010 Beta for Evaluation

4 December 2009

ZWCAD Software Co., Ltd., a leading supplier of CAD platforms, announces the availability of ZWCADTM 2010 Beta software for public evaluation. Designed to integrate with Windows 7 and communicate with other Windows applications, and now available in 14 languages*, ZWCAD 2010 Beta is ready to take ZWCAD users into the next decade.

In ZWCAD 2010 Beta, there are several major advances in CAD optimization. Memory Optimization with compressed processing and new optimized arithmetic improves the efficiency of commonly-used commands and reduces CPU usage and memory, resulting in greater speed and stability, especially when of dealing with large drawings.

ZWCAD 2010's newly-developed In-Place MTEXT Editor will help you focus on your design and make your work experience more efficient with new and improved functions for your convenience such as:

- **Text Formatting Toolbar** to adjust settings to the text style for a multiline text object and set the character and paragraph format of the selected text.
- **Paragraph Dialog Box** to set the formats of the paragraph (including tab stops, indents, paragraph alignment, paragraph spacing and line spacing).
- **Display Options Menu** to modify the way of the Text Formatting toolbar and provide additional editing options.

Meanwhile, ZWCAD 2010 Beta has made a lot of improvements in other features, such as Hidden Plot, Render, Refedit, Splinedit, Undo and Hatch. With these improved operations, you can work more smoothly.

Also in ZWCAD 2010 Beta, APIs like Lisp and VBA have been greatly enhanced, with 13 new

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functions added to the Lisp Vlax and Vlr series. ZWSOFT has added new commands to VBA as well, such as AppendOuterLoop and AppendInnerLoop to increase your proficiency. Another highlight of ZWCAD 2010 Beta APIs is the introduction of ZWSOFT's own runtime extension, ZRX. As the most powerful API (application programming interface) in ZWCAD, ZRX enables developers to migrate their former ARX applications to ZWCAD quickly.

“Even with all the improvements we’ve made, we know we can be better! We want to hear from our customers in order to know what they really need,” said Joh Li, director of ZWSOFT R&D Department. “We encourage our customers to download and test the new ZWCAD 2010 Beta release so that we can bring about an official version with better quality in January, 2010.”

You can download ZWCAD 2010 Beta from :

<http://www.zwcad.org/DownFile.asp?DownType=1&ID=20>

And take its on-line survey at:

<https://spreadsheets0.google.com/viewform?formkey=dFVsV2FVZUNYTHBfczc3TIBYc3dkb0E6MA>

*ZWCAD 2010 Beta version is available in 14 multilingual versions, including Chinese (Simplified and Traditional), Czech, English, French, German, Italian, Japanese, Hungarian, Korean, Polish, Russian, Spanish and Turkish.

[ZWSOFT](#) is headquartered in Guangzhou, China, with branches in Beijing, Shanghai, and Wuhan. As a leading supplier of CAD software solution, the company employs about 360 staff and is supported by an international network of highly skilled strategic partners, distributors, and resellers.

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