Contents

CIMdata News
CIMdata Successfully Concludes its 2012 North American PLM Market & Industry Forum and Releases its 2011 Market Analysis

Company News
Altair and Zeal Group Partner to Resell and Implement HiQube Business Analytics Solutions
ASCENT- Center for Technical Knowledge® Releases Eight Autodesk Official Training Guides for Autodesk® 2013 Software
COMSOL Opens New Office in Berlin
Equalis Appoints Globaltek International as its Solutions Partner for China
ISKO Engineers AG Joins the MSC Software Business Partner Community
SAP Celebrates 40 Years of Innovation
The Joint Website of Human Solutions, Assyst and AVM is Now Available Online

Events News
Altair 2012 Americas HyperWorks Technology Conference Will Feature Veteran Astronaut T.K. Mattingly and Highlight Technology Innovation in Aerospace
Delcam to Show Seven-In-One Demonstration at Matsuura Open House
Delcam to Support DMG/Mori Seiki Malaysia at KL Open House
Edgecam Programs Launch Demo For Matsuura
ESPRIT to be Exhibited at MACH 2012, Birmingham, U.K., April 16-20 (4-Apr-2012)
ESPRIT 2012 by DP Technology to be exhibited at SIMTOS 2012, April 17-22, Seoul, Korea
FISHER/UNITECH to Exhibit in BIOMEDevice Show
Geometric to Display Automation Solutions for Design and Machining at DieMould 2012
GETRAG FORD Transmissions to Present at Aras ACE International Conference May 1-3
Lear Corporation to Present at Aras ACE International Conference May 1-3
Newly Released Mastercam X6 in Action at Manufacturing 4 the Future 2012
Oracle's Mark Hurd Delivers Strategy to Drive IT Simplification and Emphasizes Oracle's Business Analytics Strategy at Oracle OpenWorld Tokyo 2012
Something for Everyone as 49th Design Automation Conference Opens Advance Registration
Webinar: Document Centric Collaboration with PDF Generator 3D (3DPDF), April 10

Financial News
EMC to Announce First-Quarter 2012 Financial Results on April 19; News Release to be Available on EMC's Corporate Website
IGE+XAO Group: First Half Year 2011/2012 up Sharply
Infor Announces Equity Investment and Financing
PTC Provides Preliminary Q2 FY’12 Results

Implementation Investments
Delcam’s FeatureCAM Leads to Solar-Powered Success
FORAN in the New Jack-Up Barge Crane Built in Drydocks World - Dubai
LMS International and hofer powertrain Teaming up for Improved Powertrain Performance
Radan Macros Take Kitchen Company “To New Levels”
Raydium Selects Berkeley Design Automation Analog FastSPICE™ Platform for TFT-LCD System ICs
Product News

Altium Releases Maxim Board-Level Components as Online Resources

Arena Solutions and ERP Logic Partner to Bring Integrated Cloud PLM Solution to SAP® Business

ByDesign™ Customers

Autodesk Certifies GibbsCAM for Autodesk Inventor 2013

Automation of Assembly Quality Control: Noomeo and Kineo CAM to Cooperate

AVEVA Releases AVEVA Pipe Supports - Marine

CAD Schroer: Building a 3D Factory on a Rich 2D Legacy

Dassault Systèmes Introduces SolidWorks Plastics Software

Geomagic Delivers Updates to its 3D Imaging and Metrology Product Line

Injection Molding Simulation Software Now Available With Real-Time Feedback

Intergraph® Supports the ISO 15926 Standard with the Release of SmartPlant® P&ID ISO 15926 Export Utility

IronCAD Native Translator Bundle Product Update #1 Released for the IronCAD Design Collaboration Suite 2012

IronCAD Releases Product Update 1 for the IronCAD Design Collaboration Suite 2012

Latest Enhancements to Parasolid Deliver Significant Productivity for High-End Applications

Latest Synplify FPGA Synthesis Software Offers New High-Reliability Features and Improves Productivity for FPGA-Based Prototyping

Lectra and WGSN Sign Global Partnership Agreement

LEDAS Assists STANKIN to Develop a New 3D Modeling Kernel

Nuage Releases Nuage Café, A Social Media Based Platform For Business File Sharing And Collaboration

OPEN MIND Offers CAM Solutions for Medical Engineering

Oracle Announces General Availability of Oracle Endeca Information Discovery

Oracle Extends Business Analytics Portfolio with New Oracle Manufacturing Analytics and Oracle Enterprise Asset Management Analytics Applications

PartsList Becomes the First-Ever Cloud Tool for Documenting the Innovation BOM During Prototype Design

ReverseEngineering.com™ Releases FARO EDGE and FOCUS 3D Software Add-in for SolidWorks

SAP Unveils Strategy to Gain Predictive Insights from Big Data

Siemens PLM Software Significantly Enhances Decision-Making with New Active Workspace

SimulationX 3.5 Released to the Market

Support for Brava Viewer for Microsoft SharePoint

Synopsys’ StarRC Extraction Solution Certified by UMC for 28-nm Designs

TDCI Releases BuyDesign 8 Software with New Mobility, User Productivity and Integration Capabilities

TotalCAE Portal and VCollab Make CAE Data Smaller, Portable, More Usable

Updated Plugins for Creo and Pro/ENGINEER with KeyShot Exporter

Vectorworks Cloud Services Provides Added Computing Power and Design Freedom

Vehicle Dynamics Software CarSim, TruckSim, and BikeSim Added to Altair's HyperWorks Partner Alliance

Zuken Joins ODB++ Solutions Alliance

CIMdata News

CIMdata Successfully Concludes its 2012 North American PLM Market & Industry Forum and Releases its 2011 Market Analysis

Analysis Documents Strong Global PLM Market Growth in Calendar Year 2011

3 April 2012
CIMdata PLM Industry Summary

CIMdata, Inc., the leading global Product Lifecycle Management (PLM) management consulting and research firm announces the successful completion of its 2012 North American PLM Market & Industry Forum—the first in a series of four global events. This forum was held in Ann Arbor, Michigan, USA on 29 March 2012.

CIMdata’s PLM Market & Industry Forums are the world’s premiere gathering of technology and service providers focused specifically on the PLM market and the issues concerning its development and growth. Participants gathered to hear CIMdata’s perspective on the state and trends of the PLM market, as well as a detailed discussion of CIMdata’s research and viewpoints on the 2011 PLM market results. These included CIMdata’s extensive analysis and forecasts regarding market growth across PLM domains, industries, and regions, and the performance (revenue and market share analysis) of leading PLM solution providers.

In CIMdata’s annual “State of PLM: Today’s Market and Leading Trends” address, Mr. Peter Bilello, CIMdata’s President, stated that “While the PLM market came back very strong based on the global market numbers, we believe that there is a ‘New Normal’ in the business environment.” He added, “One way to look at the market is that companies are using PLM strategies to do more with less. They are not necessarily hiring people, but they need PLM strategies and enabling technologies to get their work done in a more accurate, repeatable, and efficient manner.” In Mr. Bilello’s concluding remarks, he commented that significant opportunity still exists in several emerging markets and industries, as well as mature ones. He went on to say, “As we settle into the ‘New Norm’, CIMdata believes that PLM is at a tipping point.”

Commenting on the PLM market in 2011, Mr. Stan Przybylinski, CIMdata’s Director of Research, said, “At last year’s forum there were some questions about our optimistic forecasts for calendar year 2011, but our estimates show outstanding growth.” Recent statistics compiled by CIMdata show that the Comprehensive PLM market experienced 15.2% growth in 2011 to US$29.98 billion. Mr. Przybylinski added, “Growth was strong throughout the year, particularly in licenses, which bodes well for services growth and continued market expansion in the next few years.” A wide range of companies in many industries continued investing in PLM to achieve short-term benefits as well as long-term strategic value throughout the product lifecycle and across their extended enterprises. “CIMdata strongly believes that the expansion in investment supports our long-time claim that PLM is a strategic imperative that will help companies enhance product and process development and improve their competitive position as global markets rebound,” noted Mr. Przybylinski.

In addition, the agenda included sessions on trends in the market based on CIMdata’s PLM Knowledge Councils, a set of collaborative research panels, that bring together leading end user companies and PLM solution providers to help advance the state-of-the-art and best practices in emerging product lifecycle management disciplines. Sessions included “CAD and Analysis: Who’s on First?,” “Systems Engineering: Looking at the Whole Picture,” “Model-Based Systems Engineering,” “Process and Mechanical PLM,” and “Social Computing and PLM.” The North American PLM Market & Industry Forum is the first in a global series, with the next session scheduled for 17 April 2012 in Heidelberg, Germany. Forum sessions will follow on 20 April in Shanghai, China, and 25 April in Tokyo, Japan. For the first time, CIMdata will also convene a fall PLM Market & Industry Forum leading into its 2012 PLM Road Map conference. The fall session will be more focused on strategy and planning support for PLM solution providers, and emphasize insight and trends from CIMdata’s end user customers, best practices from CIMdata’s PLM Knowledge Councils, and selected customer presentations.

The PLM Market & Industry Forums provide a first look at CIMdata’s market estimates. The full
analysis will be released in the CIMdata PLM Market Analysis Report Series. For more information, please see www.CIMdata.com.

About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic management consulting to maximize an enterprise’s ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding in 1983, 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, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia Pacific. To learn more about CIMdata’s services, visit our website at http://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 at Oogststraat 20, 6004 CV Weert, The Netherlands. Tel: +31 (0) 495 533 666. Follow PLM news: https://twitter.com/#!/CIMdataPLMNews

Company News

Altair and Zeal Group Partner to Resell and Implement HiQube Business Analytics Solutions

3 April 2012

Altair Engineering, Inc. announced that Zeal Group of Tokyo, Japan, has become a reseller and implementation partner of Altair's HiQube business analytics and performance optimization platform. Zeal is renowned as one of Japan's leading integrators of business intelligence (BI) technology from the world's major software development corporations. The partnership brings deep system integration knowledge to deliver HiQube-based analytics solutions that optimize business performance for organizations throughout Japan.

"The flexibility of HiQube's platform makes it ideal for the Japanese market, where many companies are seeking to incorporate analytics within their BI stack with ability to scale these solutions as the business grows," said Tsunaki Kawamoto, HiQube sales and partner manager for Japan. "The great majority of Zeal's business focuses on BI solutions with system integration partners and for large corporations, and HiQube will be an important addition to Zeal's lineup of offerings to serve a broad range of companies."

"The demand for detailed business analytics is rapidly growing within the Japanese market place," said Satomi Watanabe, general sales manager for Zeal Group. "We see HiQube playing a pivotal role in our solution delivery model by providing a powerful analytics platform that works in concert with the many business systems we develop and deploy.

"HiQube's foundation, deeply rooted in simulation and optimization, delivers crucial intelligence to aid in sales and management planning," Kawamoto explained. "Zeal's HiQube-based solutions will allow planning personnel to independently analyze business activity, leveraging numerical methods, to deliver richer insight for improved business performance," he said. "We look forward to working closely with
Zeal to further the value of corporate IT investments and data through advanced analytics solutions."

Zeal Corporation, established in 1991, supports both technology and people to improve the analytical power of its customers, situated in Japan and abroad.

ASCENT- Center for Technical Knowledge® Releases Eight Autodesk Official Training Guides for Autodesk® 2013 Software

3 April 2012

Rand Worldwide® announced that its courseware division, ASCENT- Center for Technical Knowledge, released eight training guides for Autodesk 2013 software:

- AutoCAD 2013 Update for AutoCAD 2012 Users
- AutoCAD/AutoCAD LT 2013 Fundamentals
- AutoCAD/AutoCAD LT 2013 Essentials
- AutoCAD/AutoCAD LT 2013 Beyond the Basics
- AutoCAD Electrical 2013 Fundamentals, IEC
- AutoCAD Electrical 2013 Fundamentals, JIC
- Autodesk Inventor 2013 Introduction to Solid Modeling
- Autodesk Revit Architecture 2013 Fundamentals

ASCENT has made several enhancements to its Autodesk Official Training Guides for Autodesk’s 2013 release of software. The first of these enhancements is a greater emphasis on Learning Objectives incorporated into the beginning of each chapter and section. Recognizing the value of the Autodesk® Certified Instructor (ACI) program, these objectives have been enhanced to enable both students and instructors to clearly identify the expected learning outcomes of each module.

Secondly, Autodesk Certification exam objectives are now incorporated within the applicable ASCENT training guides. New icons have been added throughout the guides to identify student guide topics related to certification objectives for those who are looking to take the Autodesk Certified Professional Exam. Additionally, users will find a concise mapping document in the Appendix that highlights the exam objectives and where to locate those topics within ASCENT training guides.

Also new to ASCENT’s 2013 training guides is the inclusion of a web address through which to download an electronic version of the exercise files, replacing a CD in the book. Moving the exercise files from CD to an online version will prevent issues with misplaced or damaged CD’s, eliminating downtime while waiting for a new CD. The link to the exercise files is clearly indicated at the front of each Autodesk Official Training Guide. Lastly, ASCENT has made it easy to determine what’s new in the software by including “New in 2013” and “Enhanced in 2013” call-outs throughout the guides, where applicable.

“Once again, ASCENT is pleased to provide our customers with several 2013 training guides that are available for purchase in conjunction with the software release,” remarked Paul Burden, Director of
Product Development, ASCENT. “The ASCENT team has worked hard to meet the needs of its customers by providing training guides not only in a timely manner, but with several new enhancements as well. Our goal is to publish training guides that will provide exceptional instruction for a classroom setting, for self-study use, and also as a reference for continuous use outside the class.”

ASCENT is an Authorized Author, Publisher and Developer of Autodesk curriculum, publishing Instructor Tools, printed training guides and eBooks. ASCENT’s eBooks contain the same content as the printed guide, providing users with a personal electronic copy of the training guide. eBooks can be downloaded to smart phone or tablet devices compatible with iOS 4.0 or higher, and Android 2.2 and higher.

All of ASCENT’s Autodesk 2013 courseware titles will carry the Autodesk Official Training Guide designation, and in addition, ASCENT’s Inventor courseware is Autodesk Inventor certified. All of the company’s training guides are available to educational institutions, individuals, and corporations and can be purchased directly from the online store: www.ASCENTeStore.com.

ASCENT will be releasing a full range of titles updated for 2013 in the coming months. To see the company’s complete courseware lineup, please view the Autodesk Courseware Release Roadmap on the website: www.ASCENTed.com.

COMSOL Opens New Office in Berlin

4 April 2012

COMSOL announced that it opens a new technical sales and support office in the center of Berlin. With this new satellite office, COMSOL further strengthens its presence in Berlin and the greater Berlin area, which is home to some of the world's most prestigious research institutes, including the Fraunhofer, the Leibniz, the Max Planck, and the scientific, technical, and bio-medical research centers of the Helmholtz Association.

“Not only is Berlin the capital of our country, it is well on its way to becoming Germany’s number one scientific and high-tech location,” says Dr. Bernhard Fluche, managing director of Comsol Multiphysics GmbH. “Berlin is one of the leading regions for electro-mobility and the place of business for many international companies researching and developing new products and new technologies in such areas as biotechnology, electronics, automotive systems, pharmaceuticals, and medical equipment. The companies and research institutes in Berlin are exactly those who can achieve enormous breakthroughs with our solutions. I am very much looking forward to the opening of our new Berlin office.”

Many research institutes and companies in Berlin already use COMSOL Multiphysics or are planning to do so, according to Dr. Fluche. “Some ten years ago, multiphysics simulation really took off in Germany,” he says. “Today, leading high-tech firms in Germany have adopted COMSOL as their product development environment for such diverse applications as MEMS-based sensors, power grid components, fuel cells, plastics, and more. COMSOL would like to contribute to further strengthening Berlin’s leading position in these technologies, and the new office will ensure a better support of local users.”

“German scientists, engineers, and research institutions are considered world leaders in just about every area of technological research and development,” comments Bernt Nilsson, Senior Vice-President of Marketing of COMSOL, Inc. from his office in Burlington, Massachusetts. “Sales of COMSOL
Multiphysics in Germany are growing rapidly. And new and potential users pack our workshops and events throughout Germany to learn more about multiphysics simulation, and the Berlin area in particular is buzzing with activity. Opening a new office in Berlin is a major milestone that will enable a continuous rapid growth of COMSOL Multiphysics in this hub of technology.

Initial plans call for the Berlin office to open with five new technical sales employees with an expansion to 10-15 employees at a later date. Currently, the Berlin office will focus software sales as well as complementing and supporting the activities of the German headquarters in Göttingen. The office will be managed by Dr. Fluche, who will split his time between the Berlin and Göttingen offices.

The address of the new Berlin office of Comsol Multiphysics GmbH is:

Comsol Multiphysics GmbH
Kurfürstenstr. 84
10787 Berlin

Equalis Appoints Globaltek International as its Solutions Partner for China

3 April 2012

Equalis, a leading provider of open source numerical analysis, visualization and simulation solutions for engineers and scientists, announced that it has appointed Globaltek International as its partner for Hong Kong and China. Globaltek is a specialist distribution and support organization for high technology companies promoting sophisticated and complex electronic Test and Measurement products into one of the fastest growing marketplaces. It is headed by industry veterans with extensive experience operating in this environment. The Equalis solution is based on the world’s leading open source numerical computation platform, Scilab. Through this partnership, Globaltek and Equalis will drive the adoption of the Scilab application by providing customers direct access to a local, dedicated team of application specialists to quickly solve challenges.

Equalis, through its unique partnership with Scilab, provides a complete industrial grade solution consisting of the Scilab open source numerical computation platform, exclusive Equalis premier modules, as well as complete Equalis support programs for every type of user; be it educational users, professional users, or companies deploying globally. Scilab, downloaded more than 3,500,000 times, is the de facto open source standard for numerical analysis and simulation. Equalis premier modules include; Communications, Connectivity, Control and Power Systems, Fixed Point, Instrument Control, Neural Networks, Signal Processing, SoftCruncher (performance enhancement), and much more. Equalis also provides comprehensive user support featuring the Equalis SOS portal, e-mail access to the Equalis expert support team, real-time global support capabilities in numerous time zones and languages, accelerated bug fixes and input into the product development roadmap.

Globaltek provides a range of high tech solutions and support services to Chinese engineering and manufacturing companies. These include: RF, microwave, Telecom and Datacom, and Optical Communications.

"We are delighted to expand our coverage for this exciting marketplace and support our fast growing Chinese customer base through this partnership with Globaltek”, said Carmine Napolitano, CEO and Co-founder, Equalis. "We look forward to continuing to grow the adoption of Scilab in China with such
a strong local partner”.

"Numerical analysis and simulation is a core technology for many of our customers and we are excited to join the Equalis team to bring this leading solution to China”, said Federico Lipparini, General Manager, Globaltek International Co. "We look forward to leveraging our expertise to support China’s Scilab users”.

ISKÓ Engineers AG Joins the MSC Software Business Partner Community

2 April 2012

MSC Software Corporation announced a new partnership with ISKO engineers AG. MSC Software is expanding its network of business partners in German-speaking countries to include an experienced partner in virtual product development. As an engineering services provider, ISKO possesses many years of simulation expertise using MSC Nastran and Marc, and will begin its business partner relationship with MSC this April.

isko specializes in providing skilled Computer Aided Engineering (CAE) services and solutions. The company began expanding its portfolio years ago beyond engineering services to CAE solutions that comprehensively support its customers in the area of virtual product development. ISKO serves customers in automotive, machinery and plant construction, energy, electronics, consumer goods, process engineering, and aerospace.

The simulation experts at ISKO have acquired an outstanding reputation in the industry, particularly in the areas of nonlinear dynamics, strength calculations and acoustics. They will apply this experience to the distribution and support of solutions including MSC Nastran, Marc, Adams, and Actran.

"As an engineering service provider, we have acquired outstanding expertise in the use of CAE programs from MSC," said Ioannis Nitsopoulos, Head of Business Development at ISKO. "Our customers will now benefit from this know-how through the competent advice we can provide for all questions surrounding CAE implementation and application. This includes efficient pre-processing and simple analyses to very demanding nonlinear or multiphysics calculations, as well as optimization, automation, and scalable simulation data management. MSC offers a broad range of products that enable us to fulfill these requirements."

"We thoroughly scrutinize our potential partners and only work together with select companies who possess a comprehensive level of technical expertise and a good knowledge of the sector," said Tarik El-Dsoki, Head of Sales at MSC Software in Germany. "ISKÓ has developed from a small services provider to a renowned partner in the CAE market with many years of experience. We are delighted to have found such a highly professional partner to represent our brands. ISKO will support its customers with first-class support and an in-depth technical knowledge of MSC products."

Users and interested parties can meet ISKO and MSC Software together at the upcoming MSC Nastran User Meeting, and the Munich CAE Technology Day event.


The Munich CAE Technology Days, in cooperation with MSC will be held on June 28th, and July 5th, 2012. Topics will include "Advanced Methods for Vibration Technology and Vibration Acoustics" and
"Opportunities and risks for small and medium-sized enterprises". Further information is available at: http://www.isko-engineers.de/de/events/technologietage/uebersicht.html

About ISKO engineers AG

ISKO engineers AG has developed into a leading supplier of CAE solutions since its foundation in 1996. The company has 80 employees across 5 locations, and is a reliable and valued partner for its customers in automotive, aerospace, energy technology and machine and plant construction. Further information is available at www.isko-engineers.de.

SAP Celebrates 40 Years of Innovation

2 April 2012

Forty years ago to the day, SAP was founded. What began as a five-man operation is now one of the world’s largest independent software providers, an employer of more than 55,000 people in over 50 countries serving more than 183,000 customers worldwide. Today, three quarters of the Forbes 500 companies run SAP software. SAP software powers 80 percent of the companies on the Dow Jones Sustainability Index and 85 percent of the top 100 most valued brands in the world.

“When we began in 1972, our vision was to build real-time business applications and we did so in close cooperation with our first customers,” said Hasso Plattner, co-founder of SAP and chairman of the SAP Supervisory Board. “Today, SAP continues to be the trusted innovator it was then. We are driving intellectual renewal with breakthrough innovations like the SAP HANA platform for the next generation of real-time management of businesses anytime, anywhere, from any device. And we have also returned to our roots, working closely with customers to make the impossible possible.”

The story of SAP is one of innovation and continuous growth. Born of a single customer’s demand and an entrepreneurial vision for technology’s business potential, SAP began its path of transforming the world of IT. Five engineers — Hasso Plattner, Dietmar Hopp, Klaus Tschira, Hans-Werner Hector and Claus Wellenreuther — were driven by the desire to help companies run their businesses better, faster and more efficiently with standard software solutions. The founders’ vision holds true and its potential continues to unfold.

“SAP’s success is based on our commitment to innovation and to our customers,” said Jim Hagemann Snabe, co-CEO, SAP. “This commitment has enabled SAP to deliver leading business solutions to companies of any size and help them become best-run businesses. In a hyper-connected world with limited resources and more than 7 billion people, we are committed to leveraging this experience to help the world run better. We are proud that our software is helping to improve the lives of millions of people worldwide.”

“SAP is still fueled by the pioneering spirit that inspired our founders: We remain focused on the success of our customers. They are at the heart of our ambition to transform the industry,” said Bill McDermott, co-CEO, SAP. “With our bold commitment to innovation without disruption, we are uniquely positioned to help organizations run like never before. The passion of SAP employees to win has brought amazing momentum back to the company. Our best-ever financial results, the strategic acquisitions of Sybase and SuccessFactors, our long-term investment in China and the highest share price since 2000 are a testament to our strategic direction, our customer orientation and our world-class employees.”
Celebration Activities: Gala Charity Concert and Project Inspiration Pavilion

Celebrations are planned throughout this year. Business leaders, customers, employees, shareholders and local communities in the more than 120 countries where SAP does business will be included in the activities, which include:

A gala charity concert at the opera house of the National Theater in Mannheim, Germany, where one of the original SAP offices opened 40 years ago. To be hosted by SAP on April 29, 2012, star tenor Rolando Villazón will perform with the SAP symphony orchestra. Proceeds from the concert will go to the World Childhood Foundation. Queen Silvia of Sweden, founder of the World Childhood Foundation, will be the guest of honor.

The launch of the “Project Inspiration Pavilion” at the end of April, an exhibition that highlights SAP’s spirit of innovation in a completely digital environment.

A collection of stories, oral histories, videos and historic photos, tailored to all types of devices — from the desktop to tablets and smartphones — will be published April 5, 2012, in a special Web magazine called “SAP Milestones.”

A social innovation competition to be launched on June 18, 2012. The project aims to identify entrepreneurs globally who have innovative social ideas and solutions that are ready to be launched. SAP is committed to providing support to the entrepreneurs behind the innovations through capital, technology and people so that they can propel their ideas or emerging businesses to the next level.

The Joint Website of Human Solutions, Assyst and AVM is Now Available Online

3 April 2012

The new website of the Human Solutions Group is now online. For the first time, all the companies of the Group — Human Solutions, Assyst and AVM — the Fashion and Mobility divisions, the international sites in Italy and North America and all the Closed User groups have all been integrated into a seamless web portal.

The portal provides up-to-date information about all products and events within the Human Solutions Group. The content is currently available in German, English and Italian. In addition to the publicly accessible content, there are also comprehensive information and services for customers in the user-friendly Closed User Groups.

The Human Solutions Group is a leading supplier of CAD, PLM and ERP in the apparel industry and the global leader in ergonomics simulation in the automotive sector. Human Solutions, Assyst and AVM have formed the Human Solutions Group since 2011.

“Our new website mirrors the development of the Human Solutions Group. It demonstrates the synergy of our technologies and illustrates the tremendous growth in recent years”, explains Dr. Andreas Seidl, CEO of Human Solutions, Assyst and AVM.


5 April 2012


Events News

Altair 2012 Americas HyperWorks Technology Conference Will Feature Veteran Astronaut T.K. Mattingly and Highlight Technology Innovation in Aerospace

4 April 2012

During the 2012 Americas HyperWorks Technology Conference (HTC2012), Altair Engineering Inc. will bring aerospace to the forefront of its agenda and underscore the significant impact of technology on the evolution of the industry. Veteran astronaut T.K. Mattingly will deliver one of the event’s most anticipated keynote addresses, followed by several aerospace-focused sessions that will concentrate on industry-wide advanced technology application.

HTC2012 will be held May 15-17 at the Detroit Marriott at the Renaissance Center and is expected to draw more than 600 professionals, many from the aerospace industry’s leading manufacturers.

The conference will commence with insights from T.K. Mattingly, veteran Apollo program and shuttle astronaut, who will present the first keynote address and provide attendees a glimpse into the progress that advancements in simulation have sparked in aerospace.

“During my time in both the space program and in the private sector, I have witnessed firsthand the ways that the aerospace industry has adapted and advanced through the application of simulation technology and intelligence,” said Mattingly. “I eagerly anticipate the opportunity to share my experiences and insights during the HTC among some of the most knowledgeable engineers in the industry, who are leading this continued innovation.”

Several aerospace-focused presentations and case studies will be introduced at the conference by industry experts from Altair ProductDesign, AAI, ATK, Boeing, and Embry-Riddle Aeronautical University, who will discuss:

- Concept design optimization, lightweighting and composites
- Parts optimization for use in ambient and cryogenic conditions
- Altair ProductDesign’s development of custom automation for rapid modeling
- Benefits and best practices learned through the establishment of onsite optimization centers
- Finite-element modeling and crash testing for performance and design insights
- Energy-absorption design for reducing safety-device-related injuries in crash conditions

“The presentations slated for the HTC concentrate on many of the critical issues experienced now by manufacturers across the industry and the ways we are implementing advanced simulation to address
them,” said Robert Yancey, Altair senior director of global aerospace and marine. “We expect these presentations will provide a valuable platform for aerospace executives to discuss and see firsthand how our customers are using HyperWorks to develop new designs and make the engineering and analysis process more efficient, driving innovation, efficiency and productivity.”

As Altair strives to bring great technology forward with its design and domain expertise, the 2012 HTC will encompass simulation, predictive analytics, optimization, high-performance computing and cloud architectures to help users make better engineering and business decisions. The centerpiece attractions of HTC events worldwide are the customer experience stories describing the various real-life scenarios and successes of using HyperWorks, Altair's simulation software suite. HyperWorks includes tools for modeling, analysis, visualization and data management capabilities for linear and non-linear, structural optimization, fluid-structure interaction, computational fluid dynamics and multi-body dynamics applications.

HTC2012 is Altair’s premier annual event and is free for all attendees. For more information and to register, visit www.altairhtc.com. Connect with HyperWorks on Twitter (#HTC2012), Facebook and the Altair HyperWorks LinkedIn group for updates.

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April 2012

2012 ANSA & µETA North American Open Meeting

May 10th, 2012

The Inn at St. John's, Plymouth (MI), USA

BETA CAE Systems S.A. will hold its 2012 open meeting in USA, hosted by BETA CAE Systems USA, Inc. The event will take place on May 10th, 2012 at The Inn at St. John's, Plymouth (MI). This event aims to introduce the latest developments in ANSA and µETA Pre- and Post-Processing suite and to showcase its application in various CAE disciplines. The "Technical Discussions" session that will follow the event's closing will give participants the opportunity to meet in person with our engineers and discuss about the software features and their application.

For their contributions, BETA CAE Systems S.A. and BETA CAE Systems USA, Inc. would like to extend their appreciation to:

Nand Kochar, Chief Engineer, Global Materials Engineering and Standards, and Executive Technical Leader, Global CAE, Ford Motor Company

Dan James, Design Durability Lead - Jeep Body & Closures, Chrysler LLC

Clifton Stokes of General Motors Company

Carsten Othmer of Volkswagen AG

Amar Ourchane, Supervisor, Chassis CAE: Frames & Subframes, Ford Motor Company

Chris Qin, Technical Specialist - Vehicle Safety Engineering, Chrysler LLC

Mike West, Vehicle Performance Development, Toyota Technical Center

There is no participation fee for this event.
However, for the better organization of the event, please register at the event's web page no later than Friday, April 27th, 2012.

The attire will be business casual.

Breakfast, coffee servings, lunch and reception are courtesy of BETA CAE Systems USA, Inc.


**Venue**

The Inn at St. John's

44045 Five Mile Road

Plymouth, Michigan 48170

USA

Web: [http://www.stjohnsgolfconference.com](http://www.stjohnsgolfconference.com)

**Accommodation**

The hotel is reserving a number of rooms for the event at special daily rates of $129.

Please, mention the

DISCOUNT CODE: 10B40N

(Valid for 3 days before and 3 days after the event)

[Click here to return to Contents]

**Delcam to Show Seven-In-One Demonstration at Matsuura Open House**

5 April 2012

Delcam has developed programs in its PowerMILL software for high-speed and five-axis machining to highlight the capabilities of the Matsuura MX-520 five-axis machining centre with a seven-sided part that effectively combines seven demonstrations into one. The part will be machined live during a series of Open House events to be held by Matsuura at its UK headquarters in Coalville, Leicestershire, during April and May.

The seven sides of the part are produced with a combination of drilling, 2D and 3D three-axis machining, and positional and continuous five-axis operation. The complete demonstration, therefore, provides a clear illustration of the flexibility of both the Matsuura machine and Delcam’s software.

“The MX-520 is targeted at companies making the switch from three-axis to five-axis operations,” explained Ian Michie at Matsuura. “This is a transition with which we are very experienced, having undertaken it with great success at a number of UK metal-cutting businesses. The demonstration prepared by Delcam for our Open House is ideal for this machine because it shows both the strengths in five-axis machining and the more fundamental drilling and milling capabilities.”

“The MX-520 is extremely rigid and compact, being built to the same exacting quality standards as our established MAM72 series at our main plant in Fukui, Japan,” continued Mr. Michie. “Even so, it achieves a cost-to-performance ratio that belies its market-entry investment price.”

The programming was undertaken using the 2012 version of PowerMILL. This latest release includes a
number of new strategies, the most important being flowline machining, together with more general
enhancements, such as control of the angular point distribution during five-axis machining, to make
programming faster and machining more efficient with the best-possible surface finish. Full details,
including videos demonstrating the new functionality, can be seen on www.delcam.tv/pm2012/lz.
For further details and an invitation to the Matsuura Open House, please call Matsuura on 01530 511400
or email imichie@matsuura.co.uk.

Delcam to Support DMG/Mori Seiki Malaysia at KL Open House
3 April 2012
Delcam’s Malaysian subsidiary will support the DMG/Mori Seiki Malaysia Open House to be held in
Kuala Lumpur from 3rd to 6th April. Delcam Malaysia is providing CAM programs specially developed
to highlight the strengths of latest turning and milling equipment that will be on show.
Live machining demonstrations will be performed each day on turning and milling equipment, including
the new X-Class machines and the Ecoline range. The Open House will also feature a daily technology
seminar focused on meeting the demands of the oil and gas industry.
“Delcam welcomes the opportunity to work with DMG/Mori Seiki on this Open House,” said Chai Kok
Hoe, Delcam’s Business Development Manager for South-East Asia. “We can use the event to develop
some new demonstrations of the speed and quality of machining that is possible when using Delcam
software to program the latest machine tool technology. The combination of modern machine tools and
the latest CAM software will help companies throughout Malaysia to increase their productivity and
improve their quality.”

Edgecam Programs Launch Demo For Matsuura
2 April 2012
Matsuura has chosen Edgecam to program their largest 5-Axis machine at its launch demonstration in
the UK later this month.
The Matsuura MAM72-100H has been designed and built for heavy duty machining of large billets and
to process geometrically complex components requiring sustained close tolerance accuracy.
A series of ‘Open House’ events at Matsuura’s UK headquarters in Leicestershire will demonstrate how
the MAM72-100H partners with the CNC software, Edgecam, to cost effectively machine large parts
efficiently and accurately.
Edgecam have created a special program incorporating 50% 5-axis simultaneous and 50% prismatic
machining. Edgecam UK Sales Manager Jim Swales says: “We’ve prepared a CNC program which
shows exactly what the new Matsuura MAM72-100H machine is capable of. We’ve designed the
program to demonstrate heavy machining, prismatic multiplane machining, indexing and 5-axis
simultaneous.”
Edgecam’s simultaneous 5-Axis capability is designed to meet the demanding machining requirements
of industries such as aerospace, automotive, medical and oil & gas, making it the ideal software to
program the MAM72-100H for such heavy duty machining.

The MAM72-100H is Matsuura’s largest 5-Axis machine to date. It features a horizontally-aligned Matsuura Hi-Tech 12k BT50 spindle, 1000mm x 770mm load capacity, maximum component weight of 780 kg, and a standard magazine of 60 tools. There are also options for large capacity multi-pallet changers and FMS systems, and up to 360 tools.

The Matsuura MAM72-100H, like all Matsuura products has been designed, tested and refined to cut any material, from cast iron, aluminium through to titanium and exotics.

Matsuura Marketing Executive Ian Michie states the Open House events, spread over three weeks in April and May, will highlight to the UK market that their new machine does not exist in isolation.

“Matsuura and Edgecam have many mutual customers – manufacturers who program their Matsuura machines with Edgecam. There has to be ongoing and parallel synergy between the quality of both machine and software, and the interaction between the two in tailoring the solution to the individual customer is vital. The machine tool is only one component of a successful profitable process that Matsuura create for our customers – we always consider the best partner product solutions for our client’s process.”

While the new MAM72-100H will be the focal point, there will also be machining demonstrations on the MX-520 single table 5-Axis machine, ideal for companies wanting to make the transition to high quality 5-Axis machining. A vast array of products from Matsuura’s leading horizontal, multi tasking and 5 axis multi pallet machine tools will also be on show.

The Open House events are taking place at Matsuura Machinery Ltd. in Leicestershire, on the following dates:

April 16th – 20th
April 24th – 26th
May 1st – 3rd

Click here to return to Contents

ESPRIT to be Exhibited at MACH 2012, Birmingham, U.K., April 16-20 (4-Apr-2012)

4 April 2012

DP Technology’s ESPRIT® 2012 computer-aided manufacturing (CAM) software will be exhibited April 16-20 in Birmingham, United Kingdom, where MACH 2012 is scheduled to take place at the National Exhibition Centre.

Billed as the established showcase for the United Kingdom’s manufacturing industry, MACH is designed to promote the industry’s interests on a world-class stage, according to the event’s organizer, the U.K.-based Manufacturing Technologies Association.

ESPRIT will be exhibited at booth No. 5377, where visitors will receive one-on-one demonstrations and presentations of features available within the latest generation of ESPRIT, which offers upgrades in all machining disciplines, including enhancements to turning, milling, mill-turn and wire EDM cycles.

For turning, the “park” cycle has been redesigned in ESPRIT 2012 to allow a machine tool’s head or turret to be parked. Increased versatility is achieved with the enhancement of allowing parking on each
axis, which can be individually controlled using one of the four modes available — not parking the axis; moving the axis to home, as it would be set for a tool change; the tool moves to the input position in the operation coordinate system, or the axis moves to the input position in the machine-coordinate system.

For milling, ESPRIT 2012 offers an enhanced method of treating features used for contouring operations. Rather than allowing the tool to "roll" over the edge when at or near the starting depth, the feature edge can be extended to maintain the desired shape.

For wire EDM, new feature extension settings make it possible to extend the extremities of the feature so the wire path can start or end outside of the material when contouring or with EDM turning operations. This allows the wire path to be extended without actually modifying the feature. A new “dwell time” setting that inserts a dwell at the end of the rough cut to enlarge the exit point, ensuring that the wire for the skim cut can be re-threaded, has been added to all EDM contouring cycles.

ESPRIT® 2012 will be exhibited April 17-22, when the 15th Seoul International Manufacturing Technology Show, or SIMTOS 2012, takes place in Seoul, Korea.

Taking place this year at KINTEX, or the Korea International Exhibition Center, SIMTOS 2012 is a comprehensive international manufacturing exhibition guaranteed to deliver the latest in metal cutting, mold and die, metal forming, welding, machinery, software and much more.

ESPRIT will be exhibited in hall 8, booth No. 8A485, where visitors will receive one-on-one demonstrations and presentations of features available within the latest generation of ESPRIT, which offers upgrades in all machining disciplines, including enhancements to turning, milling, mill-turn and wire EDM cycles.

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FISHER/UNITECH to Exhibit in BIOMEDevice Show

2 April 2012

FISHER/UNITECH will exhibit at the upcoming BIOMEDevice Show, in Boston, MA. The show runs April 25–26 and is being held at the Boston Convention & Exhibition Center. Show hours are 10:00 AM – 4:00 pm.

In Booth #132, FISHER/UNITECH will demonstrate how the SolidWorks family of design products allows you to focus on innovation, while increasing productivity and improving collaboration, all at a low cost of ownership. SolidWorks offers solutions for 3D CAD, Design Validation, Product Data Management, and Documentation.

BIOMEDevice is New England's only conference program to focus solely on the design and development of medical devices through a sequentially structured series of interactive case studies, technology sessions, panel discussions and keynote presentations. Medical technology professionals with responsibilities in Engineering, Manufacturing, Product Development, Quality, Regulatory Affairs, and Research & Development typically attend. For more information or to register to attend visit the BIOMEDevice Show website.

Geometric to Display Automation Solutions for Design and Machining at DieMould 2012

3 April 2012

Geometric Limited will demonstrate the latest releases of its solid-based CNC programming solution, CAMWorks® 2012, and its automated design for manufacturability solution, DFMPro, at Booth #A8, Hall #1, Bombay Exhibition Centre, in Goregaon, Mumbai, India at the DieMould 2012, from April 19-22, 2012.

“The Die & Mould Industry consistently strives to improve efficiencies to maximize productivity, and quickly meet the needs of its customers. At Geometric, we understand the nuances of the workings of this industry, and customize our solutions to meet their unique needs. Our products like DFMPro help in validating the designs in terms of manufacturing feasibility at the design stage, hence reducing the downstream rework; while CAMWorks’ machining strategies allow users to machine complex parts with minimal efforts, saving time and money,” says Sambit Pradhan, Business Development Manager – APAC at Geometric.

Attendees will get an opportunity to see the new features included in CAMWorks 2012 that help manufacturers program more effectively, and turn virtual CAD models into reality. This includes demonstrations of ElectrodeWorks™- Electrodes for CAMWorks, an optional electrode design solution that automates the entire process of calculation and design of EDM electrodes, including design, management, documentation, and manufacturing. In addition, there will be a demonstration of CAMWorks VoluMill®, the ultra high-performance toolpath for 2.5 and 3 axis high speed milling. With VoluMill toolpaths, programming and cycle times can be reduced to a great extent, and the life of the cutting tool can also significantly increase as it places less stress on the machine tool.

During the event, Geometric will also showcase the latest functionalities of DFMPro, a tool for the validation of the manufacturability of a designed product. By checking models for manufacturability
upfront, DFMPro helps engineers address the problem of repetitive design revisions. It also helps validate designs based on best practices. The new Casting capabilities of the product will be showcased at the event, along with the existing checks for Injection Molding, Sheet Metal, and Machining. For more information on DFMPro, please visit [http://www.dfmpro.com](http://www.dfmpro.com).

Organized by Tool & Gauge Manufacturers Association (TAGMA) of India, DieMould is a biennial Die & Mould exhibition. Since 1998, it has built growing global awareness and reputation as the only trade fair in India for the Die & Mould Industry. For more information visit [http://www.tagmaindia.org/](http://www.tagmaindia.org/).

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**GETRAG FORD Transmissions to Present at Aras ACE International Conference May 1-3**

4 April 2012

*Presentation Features Aras as a Unified Platform for Software Development Application Lifecycle Management (AML), Planning, Quality Assurance, CAPA and more*

Aras® announced that GETRAG FORD Transmissions, a joint venture of GETRAG and Ford of Europe, will present at ACE 2012 International, Aras’s global conference which takes place May 1-3 in Troy, Michigan, USA. Rolf Husemann, GETRAG Ford Transmissions Manager of Engineering Systems and PLM, will present on Aras as a Platform for Global PLM Process Standardization and Efficiency Improvement.

GETRAG FORD Transmissions is a full service global automotive supplier specializing in the development and production of transmission systems for passenger cars, SUVs, light commercial vehicles and motorcycles. ACE 2012 attendees will learn how GETRAG Ford Transmissions has implemented Aras as a Unified Platform for Software Development Application Lifecycle Management (AML), Product Development, Budget Planning, Quality Assurance, Traceability and Safety, 8D and Corrective and Preventive Action (CAPA), Enterprise Workflow, Reporting & KPIs, and more.

**ACE 2012 International - May 1-3, 2012**

**Location:** Detroit Marriot Troy - Troy, MI (close to Detroit USA)

**Cost:** Free to Attend - No Fee (Registration Required)

**Details and Registration:** [http://www.aras.com/ACE2012](http://www.aras.com/ACE2012)

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**Lear Corporation to Present at Aras ACE International Conference May 1-3**

6 April 2012

Aras® announced that Lear Corporation, a premier global supplier of automotive seating and electrical power management systems, will present at ACE 2012 International, Aras’s global conference which takes place May 1-3 in Troy, Michigan, USA. Reynaldo Reyes, Director of Global Engineering Tools and Processes at Lear Corporation, will present on Global Product Development with Enterprise Change Management with Aras.

The Lear Corporation is a Fortune 500 company that serves its global customers with design, engineering and manufacturing. Lear maintains 207 locations in 35 countries around the globe and employs approximately 98,000 employees. ACE 2012 attendees will learn how Lear is leveraging Aras.
for global product development, including configuration and change management, preferred components and suppliers, and more.

ACE 2012 International - May 1-3, 2012
Detroit Marriott Troy - Troy, MI (close to Detroit USA)
Free to Attend - No Fee (Space is Limited - Registration Required)
Details and Registration: http://www.aras.com/ACE2012

Newly Released Mastercam X6 in Action at Manufacturing 4 the Future 2012
3 April 2012

Manufacturing 4 the Future 2012 will feature the latest in the line of Mastercam machining software. Stop by booth # 1901 at the Connecticut Convention Center, Hartford, CT, May 8-10 for a look at Mastercam X6, the latest release, which introduces significant new capabilities, including new stock models, Mastercam Blade Expert, the new OptiRest toolpath, Hybrid Finish Filler Passes, and so much more.

Stock Model
A precise machining stock model delivers a variety of benefits—viewing and verifying work as it progresses, performing stock model comparisons, and easily choosing existing stock for rest machining. Mastercam gives you the power to create accurate, fully-associative stock models at any point in your machining process.

Blade Expert Add-on
Mastercam Blade Expert greatly simplifies the toolpath creation process for any multi-bladed parts, including fans, propellers, impellers, turbines, marine screws, and more. There is no limit to the number of blades, splitters, or sub-splitters that can be programmed. Blade Expert includes a variety of powerful and flexible multi-axis roughing strategies. Automatic tool axis control ensures smooth machine motion.

OptiRest Toolpath
Mastercam’s latest 3D High Speed Toolpath performs Rest Milling operations to remove remaining material with optimized roughing motion. This new toolpath can use the new stock model functionality for defining stock removal areas.

Hybrid Finish Filler Passes
3D high speed Hybrid toolpaths now maintain all of the Z level cuts in the steep areas of your parts while filling in the shallow areas with scallop motion within a single Z section. These toolpaths combine the best of both worlds with waterline (constant Z) motion and scallop where needed. Now you can have both waterline and scallop motion at the same Z section, section after section. The result is a much better finish and more efficient use of the tool.

More powerful tools in Mastercam X6 include:

• 2D HST Region Chaining
• 2D HST Dynamic Toolpath Improvements
Mastercam Lathe Variable Depth Roughing
- 64-bit support
- OptiRough strategy now offers OptiCore and OptiArea
- Facing and Canned Groove toolpaths
- New Autosync Rails
- Wirepath Editor improvements

For more information on Mastercam X6, and to view videos on the new software features, please visit [http://www.mastercam.com](http://www.mastercam.com).

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**Oracle's Mark Hurd Delivers Strategy to Drive IT Simplification and Emphasizes Oracle's Business Analytics Strategy at Oracle OpenWorld Tokyo 2012**

5 April 2012

**News Facts**

Today, Oracle President Mark Hurd addressed the Oracle OpenWorld Tokyo audience, speaking about the explosion of data and the critical business need to simplify IT.

With 65 percent of the world's enterprise data stored in Oracle databases, the need for real-time business analytics ranks among the most important business challenges for C-level executives.

Oracle Senior Vice President of Analytics and Performance Management Products, Balaji Yelamanchili, outlined how organizations can leverage a comprehensive business analytics strategy to harness exploding data volumes and get intelligence into the hands of decision-makers faster and more efficiently.

As one of the leaders in Business Analytics, Oracle enables customers to plan, forecast, and monitor business performance faster and with more precision.

Business analytics is a top priority for CIOs and finance executives as they continue to navigate an uncertain global economy, as well as rapidly evolving technology trends that include Big Data, mobile applications, in-memory analytics and cloud computing.

Oracle Business Analytics includes more than 80 business intelligence and performance management applications, business intelligence foundational technology, advanced analytics and Oracle Engineered Systems.

Organizations can deploy Oracle Business Analytics solutions on premise, in the cloud and on mobile devices to perform any type of analysis, against any type of data, including structured and unstructured data from inside the firewall or external sources.

Oracle's Engineered Systems, including Oracle Exalytics In-Memory Machine, Oracle Exadata Database Machine and Oracle Big Data Appliance also help customers extend their business analytic capabilities with unprecedented performance, while accelerating deployment cycles, lowering costs and reducing risk.

**Delivering customers new Business Analytics innovations, Oracle also today announced:**
**Latest release of Oracle Hyperion Enterprise Performance Management (11.1.1.2):** Helps organizations achieve predictable performance through analytics with new project planning and account reconciliation modules, support for Oracle Exalytics In-Memory Machine and significant new capabilities.

**New analytic applications for SAP:** Oracle Spend and Procurement Analytics for SAP and Oracle Supply Chain and Order Management Analytics for SAP extend Oracle's family of packaged analytic applications for SAP, which also includes Oracle Financial Analytics for SAP. All of Oracle's business intelligence and enterprise performance management applications are also certified to run on Oracle Exalytics In-Memory Machine.

**Two new Oracle Business Intelligence Applications - Oracle Manufacturing Analytics and Oracle Enterprise Asset Management (EAM) Analytics:** The industry's first and only in-memory analytic applications for Manufacturing and Asset Management analysis, the new offerings enable customers and partners serving manufacturing, energy production, utilities and other asset-intensive industries to gain better insights and make decisions at the speed of business.

**General availability of Oracle Endeca Information Discovery:** The first enterprise platform for data discovery, it enables quick answers to new or unanticipated questions by combining structured and unstructured data without modeling. Endeca Information Discovery combines the simplicity of search with the power of analytics. It is certified to run on Oracle Exalytics In-Memory Machine.

**Supporting Quotes**

"Oracle offers the market's only complete, integrated Business Analytics solutions that enable customers to analyze and leverage information intelligence at the speed of thought," said Mark Hurd, President, Oracle. "Business analytics -- getting the right data to the right person at the right time to make the optimal decision is the most important thing you can get from your data. Analytics is in Oracle's DNA and is a vital part of everything we do -- database, middleware, applications and engineered systems."

"Oracle's continuous stream of technology innovation, across Engineered Systems, in-memory analytics, enterprise discovery, prebuilt analytic and performance management applications, advanced analytics and Big Data ensure our customers can leverage existing IT investments and gain increased business advantage by rapidly gaining greater levels of analytical insight," said Balaji Yelamanchili, senior vice president, Analytics and Performance Management Products, Oracle.

**Something for Everyone as 49th Design Automation Conference Opens Advance Registration**

2 April 2012

The 49th Design Automation Conference (DAC) opened advance registration today. The program this year highlights the advancements and emerging trends in the design of electronic circuits and systems and runs the gamut from wild and crazy ideas (WACI) to advanced peer-reviewed technical papers. Attendees can build their own schedules by choosing from quality technical papers, panels, special sessions, WACIs, WIPs (works in progress), full day tutorials, an Embedded Systems & Software (ESS) executive day, Management Day, and User Track presentations. Every EDA professional, whether an IC designer, manager, software developer or R&D researcher, will find the very latest developments in the field. DAC 2012 will be held at the Moscone Center in San Francisco, California, from June 3-7, 2012. Attendees will have a hard time choosing from all the options available at DAC each day. A brief
outline follows, but the Technical Program Committee is whetting people’s appetites with technical presentations such as “Yin and Yang of Memories: The power-performance trade-off” and “Design Automation for Things Wet, Small and Spooky.”

**Peer-reviewed Papers:**

The core of the technical program consists of 163 peer-reviewed papers with 35% of the content on ESS and 65% on electronic design automation (EDA). Papers were selected from 742 submissions, the highest number of submissions to the conference in the past 5 years, and an increase of 7% from 2011. These papers cover a broad set of topics ranging from system-level design, low power, physical design and manufacturing, embedded systems and software, logic and high-level synthesis, simulation, verification, test and emerging technologies. Popular submission themes included:

1. Power analysis and low power
2. Physical Design and design for manufacturability
3. Architectures and memory design for embedded systems
4. ESS design methodologies
5. Emerging technologies

**Special Sessions:**

Ten special sessions will deal with a wide variety of themes -- from physical design to embedded software -- including progress in design closure, power at different levels of abstraction, heterogeneous platforms, probabilistic embedded computing, self-aware and adaptive technologies and neuromorphic computing. This year special sessions also will focus on how EDA can be applied to applications and problems not usually considered EDA, such as electronic counterfeit, wireless sensor networks design, and medical devices designs.

**User Track:**

The User Track program -- sponsored by Apache Design, Inc., a subsidiary of ANSYS, Inc. -- includes the keynote, eight paper sessions, two poster sessions, and the design panel session. This year, the reviewing committee (35 industry experts representing user communities at 24 different companies) received 142 submissions, with authors from 90 institutions. The topics chosen span embedded software to lithography and highlight challenges, solutions and methodologies covering verification, timing analysis, ASIC and FPGA design flows, IP block integration, test and debug.

Users of EDA and embedded systems tools and flows will provide information to designers and practitioners: design tool users, hardware or software designers, application engineers, consultants, and flow or methodology developers. To make it easier to attend as many of these as possible, the Tuesday and Wednesday sessions will take place adjacent to the exhibit floor.

**Panels:**

A pervasive theme that panels address at DAC 2012 is the question: Have we reached a tipping point for a variety of technologies? High-level synthesis, system models, 3D chips, FPGA expansion, parallel EDA, and the cloud are technologies that have been discussed and researched for some time now; this year we separate the reality from the anticipation. Many DAC 2012 panels discuss whether each of these technologies is about to tip, taking off to become mainstream and thereby changing the face of the EDA industry. Other panels address vexing issues like the impact of reliability, low-power design and
automation, and the role of software versus hardware.

**Tutorials:**

As in the past, the goal of the DAC tutorials is to provide practical, useable, and up-to-date knowledge that attendees can immediately apply in their jobs or studies. This year’s program includes six tutorials that include three system level topics: virtual platforms, system level power modeling, and high level synthesis; and three design topics addressing 20nm design challenges, implications of 3DIC and wide I/O on design, and analog / mixed-signal at advance process nodes.

**Exhibit Floor:**

With over 200 exhibitors, including 21 first time exhibitors, this year’s exhibit floor offers exciting technologies and vendors to DAC attendees. New this year is the ARM Connected Community® Pavilion, where attendees can visit ARM® technology-based demos from ARM partners. The exhibits are open Monday, Tuesday and Wednesday with the User Track presentations on Tuesday and Wednesday.

**Embedded Systems & Software (ESS) Executive Day 2012 (Wednesday, June 6):**

The ESS Executive Day sessions are dedicated to bringing industry stakeholders together in one room to foster discussion on all aspects of the embedded development ecosystem and on where system design is headed. The day-long track is comprised of presentations from leading industry executives representing the embedded development ecosystem. IC design engineers, embedded systems designers, embedded software and hardware IP providers, IP integrators, FPGA designers, investors, foundry reps, and the media will be on hand in this new forum to hear from market leaders and to network with each other.

Presenters will focus on optimization of embedded and application domain-specific operating systems, system architecture for future embedded products, application-specific architectures based on embedded processors and technical/business decision making by program developers. They will cover the state-of-the-art solutions for embedded software and systems and complex chips as well as the need for tight collaboration between diverse players in this ecosystem.

**Management Day 2012 (Tuesday, June 5):**

The rubber meets the road at the intersection of low power systems-on-chip (SoC) design and the adoption of emerging technologies. Management Day provides engineering and business managers with essential information to make the right decisions at the intersection of business and technology, optimizing for volume production, low power, and the shrinking sizes that necessitate accurate trade-off analysis to drive technical/business decision-making. The Management Day sessions were designed to create lively dialog and to provide decision criteria to guide managers towards optimum choices from a pool of alternative options for flows, methodologies and suppliers.

Management Day at DAC 2012 will feature presentations by managers from independent device manufacturers (IDMs), fab-light ASIC providers, foundries, and fabless companies. Senior managers of today’s most complex nanometer SoCs will discuss the latest emerging solutions, along with their economic impact. A third panel session will involve the audience in an open brainstorming discussion and will complement the presentation sessions.

Advance registration ends on May 7, 2012. For all registration details, deadlines, and program highlights see [http://www.dac.com](http://www.dac.com)

[Click here to return to Contents]
Webinar: Document Centric Collaboration with PDF Generator 3D (3DPDF), April 10

April 2012

This webinar will highlight selected use cases for Document Centric Collaboration using intelligent documents.

Webinar Attendees will gain an understanding of;

- an overview of various visualization technologies and formats for 3DCAD
- examples of deep integration between intelligent documents, ERP, MRP, and PLM environments
- internal and extended enterprise collaboration scenarios
- instructions on how to convert your 3D CAD sample files to 3DPDF
- participants will also receive copies of PROSTEPs visualization white paper

PDF GENERATOR 3D

Find out about PROSTEP’s latest product PDF Generator 3D. Did you know that you can combine metadata from existing backend systems, 3D CAD data, files and interactivity in a single dynamic PDF document? This allows team productivity and business efficiency to unfold throughout the extended enterprise. Visit http://www.pdfgenerator3d.com for more details about PDF Generator 3D.

Title: Document Centric Collaboration with PDF Generator 3D (3DPDF)

Date: Tuesday, April 10, 2012

Time: 11:00 AM - 12:00 PM EDT

System Requirements

PC-based attendees
Required: Windows® 7, Vista, XP or 2003 Server

Macintosh®-based attendees
Required: Mac OS® X 10.5 or newer

Space is limited.

Reserve your Webinar Seat Now at:
https://www2.gotomeeting.com/register/420122538

Click here to return to Contents

Financial News

EMC to Announce First-Quarter 2012 Financial Results on April 19; News Release to be Available on EMC’s Corporate Website

6 April 2012

EMC Corporation will publish its first-quarter 2012 financial results on April 19, 2012 at approximately
7:00 a.m. ET. The news release will be available on the EMC Investor Relations website at http://www.emc.com/ir and on the U.S. Securities and Exchange Commission website at: http://www.sec.gov/cgi-bin/browse-edgar?action=getcompany&CIK=0000790070&owner=exclude&count=40. On April 19, 2012, EMC will issue a news release announcing the availability of the company's quarterly financial results at the websites referenced above.

EMC will hold a conference call for investors at 8:30 a.m. ET on April 19, 2012 to review first-quarter 2012 financial results. A live webcast of the conference call will be available at the EMC Investor Relations website at http://www.emc.com/ir.

IGE+XAO Group: First Half Year 2011/2012 up Sharply
30 March 2012
The IGE+XAO Group announces:

Consolidated Accounts for the first half of 2011/2012 (in IFRS norms). Period from 1 August 2011 to 31 January 2012

First half year 2011/2012 up sharply
Operating income: +10.1%
Net income: +17.5%

Over the first half of the 2011/2012 financial period, consolidated turnover for the IGE+XAO Group is up 3.8%, amounting to 11,264,268 euros compared to 10,853,145 euros one year earlier. This growth is in line with the favourable trend that was observed over the 2010/2011 financial period and confirms the renewed dynamism in the SME-SMI market, in France in particular.

Over this period, commercial activity moreover benefitted from the positive impacts of the launching, at the end of 2011, of new versions of the Group's flagship products, including substantial innovations pertaining to "collaborative engineering" as well as new user interfaces combining user-friendliness and performance.

From a profitability standpoint, the Group's operating income amounted to 2,808,288 euros, up 10.1% compared to the first half of 2010/2011, which is an operating margin* of 24.9%. This growth can be explained by the level of activity as well as by the quality of the IGE+XAO's economic model. Finally, net income stands at 2,259,774 euros (+17.5%), which is a net margin** of 20.1%.

From a financial standpoint, IGE+XAO is solidly structured with, at 31 January 2012, equity of 21 million euros, almost no bank debt and a cash flow of nearly 20 million euros.

Backed with its results and its solid fundamentals, the Group is pursuing its development internationally with the opening of sites in new countries (Turkey in the 3rd quarter) as well as reinforcing its presence in the countries where it already has locations (USA, China). In parallel, IGE+XAO has decided to accelerate the development of its Electrical PLM (Product Lifecycle Management) offerings for the aeronautics, space and transport markets. Finally, in accordance with the Group's "Business Plan", these operations will be accompanied by a high level of profitability.

* operating income in terms of turnover.
Infor Announces Equity Investment and Financing

5 April 2012

Infor announced an equity investment from Golden Gate Capital and Summit Partners and the successful refinancing of the company's debt capital structure. The transaction completes the combination of Infor and Lawson Software - solidifying Infor's position as the world's third-largest enterprise software company.

Combined with the recent equity investment in Lawson, more than $1 billion of new equity has been invested in Infor in the past year. Additionally, Infor refinanced its debt capital structure, reducing total debt by more than $600 million and extending debt financing with an average maturity date of 2018. Infor now generates $2.8 billion in annual revenue and profit margins of more than 28 percent. The company's scale, growth trajectory and leadership position allow for accelerated innovation and increased value for its customers.

"The new financing and finalized business combination represent a strategic milestone that sets Infor on a clear path of long-term growth and sustained financial strength," said Charles Phillips, CEO of Infor. "The stellar performance and dedication of thousands of Infor employees have allowed the company to realize this important objective."

In the past year, Infor added more than 600 new developers dedicated to delivering deep industry-specific processes. Few other companies have hired this magnitude of engineering talent focused on applications at such a rapid pace.

The innovation and focus have translated into tangible results for Infor: the company grew license revenue more than 15 percent over the past five quarters, expanded margins and added more than 2,000 new customers.

The accelerated growth was driven by a surge in shipment of new products and enhancements. In the past year, Infor launched Infor10 and shipped more than 100 new products, 3,000 new features and 2,000 customer enhancements, all up more than double the rate from the prior year. New products also helped drive higher support renewal rates and attract another 500 customers to return to support. Additionally more than 125 new resellers joined the Infor Partner Network.

PTC Provides Preliminary Q2 FY'12 Results

5 April 2012

PTC provided preliminary financial results for its fiscal quarter ended March 31, 2012.

Highlights
• Q2 Non-GAAP revenue of approximately $300 million and non-GAAP EPS of $0.26-$0.28
• Q2 GAAP revenue of approximately $299 million and GAAP EPS of $0.00-$0.02
• Q2 license revenue of approximately $75 million
• Q2 revenue contribution from MKS (acquired on May 31, 2011) and 4CS Solutions (acquired on September 2, 2011) was $23 million on a non-GAAP basis and $22 million on a GAAP basis

The preliminary Q2 non-GAAP revenue results exclude a $1 million effect of purchase accounting on the fair value of the acquired deferred maintenance balance of MKS Inc. The preliminary Q2 non-GAAP EPS results also exclude $13 million of stock-based compensation expense, $9 million of acquisition-related intangible asset amortization, $21 million of restructuring expense, and related income tax adjustments. The preliminary Q2 results include a non-GAAP tax rate of approximately 25%, an immaterial GAAP tax provision and 121 million diluted shares outstanding.

Results Commentary

James Heppelmann, president and chief executive officer, commented, “Our second quarter license revenue was impacted by a large transaction in Europe that did not close and lower than expected performance in North America. Our maintenance and services business continued to perform well, as did our newly acquired MKS business, with the shortfall in Q2 revenue relative to our guidance of $305 to $320 million due to reduced license sales. While we are disappointed with our Q2 results, we are strategically positioned in attractive growth markets and remain confident in our ability to drive long-term growth and profitability.”

Senior management will host a live webcast and conference call on Thursday, April 5, 2012 at 8:30 am Eastern Time to discuss Q2 preliminary results. PTC will release final Q2 results on Wednesday, April 25th after the stock market closes. Senior management will host a live webcast and conference call to review the results on Thursday, April 26th at 8:30 am Eastern Time.

Q2 Preliminary Results Conference Call and Webcast

Replay: The audio replay of this event will be archived for public replay until 4:00 pm (CT) on April 15, 2012 at 1-800-947-6583. To access the replay via webcast, please visit http://www.ptc.com/for/investors.htm.

Q2 Final Results Conference Call and Webcast

The earnings press release and accompanying prepared remarks will be accessible prior to the conference call and webcast on the Investor Relations section of the Company’s web site at http://www.ptc.com/.

What: PTC Fiscal Q2 Final Results Conference Call and Webcast
When: Thursday, April 26th, 2012 at 8:30 am (ET)
Dial-in: 1-800-857-5592 or 1-773-799-3757
Call Leader: James Heppelmann
Passcode: PTC
Webcast: http://www.ptc.com/for/investors.htm
Replay: The audio replay of this event will be archived for public replay until 4:00 pm (CT) on May 6, 2012 at 1-866-463-4960. To access the replay via webcast, please visit http://www.ptc.com/for/investors.htm.
Important Information About Non-GAAP References

PTC provides non-GAAP supplemental information to its financial results. Non-GAAP revenue, operating expenses, margin and EPS exclude the effect of purchase accounting on the fair value of the acquired deferred maintenance balance of MKS Inc., stock-based compensation expense, amortization of acquired intangible assets, acquisition-related expenses, restructuring charges, certain foreign currency transaction losses, and the related tax effects of the preceding items and any one-time tax items. We use these non-GAAP measures, and we believe that they assist our investors, to make period-to-period comparisons of our operational performance because they provide a view of our operating results without items that are not, in our view, indicative of our core operating results. We believe that these non-GAAP measures help illustrate underlying trends in our business, and we use the measures to establish budgets and operational goals, communicated internally and externally, for managing our business and evaluating our performance. We believe that providing non-GAAP measures affords investors a view of our operating results that may be more easily compared to the results of peer companies. In addition, compensation of our executives is based in part on the performance of our business based on these non-GAAP measures. However, non-GAAP information should not be construed as an alternative to GAAP information as the items excluded from the non-GAAP measures often have a material impact on PTC’s financial results. Management uses, and investors should consider, non-GAAP measures in conjunction with our GAAP results.

Implementation Investments

Delcam’s FeatureCAM Leads to Solar-Powered Success

4 April 2012

Delcam’s feature-based machining software, FeatureCAM, is being used by Southwest Solar Technologies in Arizona to develop prototypes for a novel solar power generation system that could overcome the problems presented by other systems.

“Photovoltaic-panel systems produce only intermittent power when the sun is available, while steam turbine-based technology requires large quantities of water, a particular concern in arid regions,” explained SST Founder and Chief Technical Officer, Herb Hayden. “At SST we are working to engineer a highly efficient and durable Concentrating Solar Power technology that will solve these problems.”

The company’s TurboSolar Power System consumes minimal water and other environmental resources while generating grid-ready energy from the sun.

SST comprises a small team that consists of a number of engineers across several disciplines - including electrical, mechanical and software engineering. Its leadership team includes experts from all of the industries required to bring a start-up company from inception to a viable entity.

It started with Mr. Hayden, a recognised expert and advocate of solar energy. He spent more than 15 years directing the solar research and development programme for Arizona Public Service.

The TurboSolar Power System combines a solar-concentrating dish with a purpose-built gas turbine engine. Early last September, SST announced the successful on-sun testing and proof of concept of the system.

Zoltan Farkas, design engineer, does most of the programming to machine the unique parts needed by
SST. “I chose FeatureCAM for our machine shop because I was very familiar with the software from my employment and education at Arizona State University,” he said. “It is so flexible that we can easily import 3D models from other programs into it. It is an intuitive software package and, when you are building products with holes, pockets and 3D surfaces in an R&D environment, there is no quicker way to do this than with the Delcam package.”

Paul Thomas, electrical engineer for the company, had to learn FeatureCAM the hard way when Mr. Farkas was fully occupied with producing components. “I needed to see what the tools would do in a simulation and, when I came to Zoltan and told him what I wanted to do, he was so busy that he handed me the discs and told me to go for it,” Mr. Thomas remembered. He was up and running as a new FeatureCAM user, with no training, on his own in just a couple of days.

“I like the fact that you can change posts quickly, and that you can modify the post-processor to put out custom g-codes for a different machine so easily,” Mr. Farkas added. “When you are in a start-up environment, machining, designing and bringing products to market has to happen yesterday. The speed and ease of use of FeatureCAM help us to meet this challenge.”

FORAN in the New Jack-Up Barge Crane Built in Drydocks World - Dubai

26 April 2012

FORAN was the CAD/CAM used by Drydocks World - Dubai in the development of the engineering of the new jack-up barge crane, called SEP – SAMRAT. Drydocks World - Dubai, the flagship company from the Dubai World Corporation, is about to complete the production documentation and construction of the new vessel for specific offshore building duties.

The vessel is a non-propelled self-elevating platform, with a total lifting capacity of almost 2,950 tons, through the help of four legs and the corresponding jacking system. It is also equipped with a central main crane and auxiliary systems, such as mooring winches, diesel generators, hydraulic power packs and transfer pumps. All the production drawings have been obtained with the in-house engineering capability, comprising highly skilled personnel and the latest CAD/CAM solutions in the market, being the FORAN System the main toolset.

From the initial design to the final production drawing, FORAN ensures a seamless and comprehensive design environment, where every single component is fully integrated in the 3D product model. With a length overall of 49.5 m, a breadth of 25 m and a draft of 2.5 m, the offshore barge is classified by Bureau Veritas, with class I + HULL + MACH, Offshore Self-Elevating Unit, Special Service / Construction Works, Indian Coastal – Summer Zone Transit, + ALM. One important characteristic to be mentioned is the led height of 60 m.

The elevating spuds, which are pipe sections with 2.2 m of outer diameter and 45 mm of thickness, are actuated individually by a hydraulic jacking system, each of them capable of 1,055 tons of lifting force. The main crane is a Manitowoc 1800, with a rated capacity of 600 tons and a boom length of 97.5m. There are two generators, rated 335 kW each one, and an emergency one rated 130 kVA, and the mooring is ensured by means of six winches, each one rated 25 tons of pulling force.
LMS International and hofer powertrain Teaming up for Improved Powertrain Performance

4 April 2012

LMS International announced it has entered into a partnership with hofer, the well-known German powertrain system, component and service provider.

After several years of cooperation, LMS and hofer are consolidating a long-term relationship through wider deployment of the LMS Imagine.Lab simulation tool – expected to further contribute to improved quality and time to market of hofer’s products and services. Thanks to the partnership, LMS will also benefit by further optimizing its system simulation solution for powertrain through regular feedback from the undisputed technological expertise of hofer’s engineers.

With this agreement LMS clearly expresses its goal to further increase the quality of its support to existing and new clients, while hofer powertrain demonstrates its commitment to LMS Imagine.Lab AMESim in supporting its development and engineering activities.

“hofer’s independent and cutting-edge perspective provides valuable input for LMS. We recognize hofer as a highly qualified partner in the powertrain domain. We are proud to collaborate and share our knowledge in system simulation and we are eager to receive their expert feedback”, states Nicolas Orand, Director of LMS Imagine.Lab products.

“By using LMS Imagine.Lab AMESim during the last 6 years, hofer was able to improve the development of powertrains significantly, especially for intelligent transmissions, hybrid and e-mobility projects. The capability to predict the dynamic behavior of complicated systems in different conditions results in a much higher product quality and customer satisfaction in our engineering projects. The outstanding performance and support as well as the quick feedback to customer requests made LMS Imagine.Lab AMESim our preferred system simulation tool. We are very pleased to get the chance to influence the development of the tool even more in the future”, states Thomas Hackl, Business Unit Manager for System Simulation and System Analysis at hofer powertrain.

About hofer powertrain

The hofer-group was established in 1980 in Germany as an engineering company and today it employs more than 400 employees worldwide. Development and industrialization of systems within the powertrain, coupled with measuring-testing-and production techniques, form hofer’s core competence. hofer develops cutting-edge transmission technologies including control software and application for passenger and commercial vehicles, motorcycles and off-highway, channeling its proven engineering competence into new development methods, ad-hoc services and industrialization of all critical components of the powertrain system, be it traditional, hybrid or fully electrical. Since 2011, hofer has also been a supplier for hydraulic control systems for sports car application.

Radan Macros Take Kitchen Company “To New Levels”

2 April 2012

Two unique macros in the sheet metal CAD/CAM software have improved a Pennsylvania commercial kitchen company’s abilities and taken them to new levels in processing and turnaround times.

The Bova Corporation produces sheet metal kitchens for organisations supplying food to the general public.
public in places such as hospitals, hotels, schools and government departments. Head of Engineering Matt Bova says: “We do everything from basic wall shelves to full-blown serving lines incorporating the wiring and plumbing. We provide a turnkey operation for any aspect of kitchen ranges, mainly in stainless steel, with some components in galvanized steel and aluminum.”

They also manufacture laboratory equipment, stainless steel casework, counter tops and wall cabinets.

Typically, The Bova Corporation works from drawings provided by consultants and architects. “We take the plan view drawings and specifications of how the equipment should look, then lay out all the cabinetry and counter tops in Autodesk Inventor.”

Once the CAD is completed they are ready for CAM to prepare the parts for cutting on their Mazak Super Turbo X510 Hi-Pro laser. And that’s where the Radan CNC software comes in, with two macros written by the Radan team especially for Bova.

The Inventor file is imported straight into Radan using the first unique macro. It takes a Bill of Materials file from the kitchen drawing, putting all the parts directly into Radan’s nest schedule editor. “This is invaluable to us because it dramatically reduces the time needed to process the parts from engineering to the shop floor. What was taking us two or three hours, now takes less than an hour.”

He says it also gives them confidence that everything will be 100% accurate. “Before the macro, human error meant we sometimes had issues with parts being skipped, quantities getting confused, and wrong materials and thicknesses. But now when I import CSV data into Radan a project file is automatically created, populating the nest schedule with all the parts in the Bill of Materials – materials, quantities and gauges.”

Radan’s nesting capabilities have improved Bova’s material utilization by around 25%. And a second macro written by the Radan team kicks in at the nesting stage. Each nested part is given a label that prints out on a label maker, which Matt Bova says has helped them ten-fold. “Once the nests are created Radan launches the label macro in Microsoft Word. Previously we had to write on each part with magic markers to label everything for assembly. Now we just peel the label off the sheet and stick it on the part. That’s helped us pick up more time.”

The simulation program is instrumental in preventing mistakes. “It shows that our cutting paths will be successful without us having to guess, taking away the need for trial and error and stopping material being wasted. This makes it invaluable for prototyping – and 95% of our work is bespoke so we do a lot of prototyping – as we can guarantee everything’s going to be right before we start cutting metal.”

Being able to program offline with Radan means the laser is cutting one job while a CNC program is being produced for another one. “It keeps the machine operator busy at the same time as the programmer in the office.” And a staggered start means even more efficiencies: “Typically, a programmer will start an hour earlier than the operator, to Radan all the parts and load up the laser with the parts that need to be cut. When the machine operator comes in everything’s ready for production to start, and the programmer moves on to the next job.”

Matt Bova says Radan allows them to produce customised, bespoke products, but still have what he calls “normalcy” in the way they work.

“And the two macros have given us new abilities and taken us to new levels in processing and turning out high quality parts on a very fast basis. Radan saves us hours every day – we couldn’t do what we do without it. It’s become an absolutely integral part of our manufacturing process.”
Raydium Selects Berkeley Design Automation Analog FastSPICE™ Platform for TFT-LCD System ICs

27 March 2012

Berkeley Design Automation, Inc., announced that Raydium Semiconductor Corporation, a global provider of integrated circuit (IC) solutions for TFT-LCD panels, has selected the company’s Analog FastSPICE (AFS) Platform for block-level characterization and full-circuit verification of their TFT-LCD panel driver, display panel timing controller, and power management ICs.

“Raydium emphasizes quality and innovation, requiring a circuit verification flow with SPICE accuracy and compelling price/performance,” said Dr. Chin-Chieh Chao, Vice President at Raydium. “We performed extensive verification benchmarks with complex analog circuits targeting TFT-LCD applications, including CDR circuits containing PLLs and DLLs. The AFS Platform exceeded our expectations by delivering SPICE accuracy 5x faster than our existing limited-accuracy digital fastSPICE simulator.”

The Analog FastSPICE Platform is the world’s fastest nanometer circuit verification platform for analog, RF, mixed-signal, and custom digital circuits. The AFS Platform delivers foundry-certified nanometer SPICE accuracy 5x-10x faster than any other simulator on a single core and an additional 2x-4x performance with multithreading. For circuit characterization, the AFS Platform includes the industry’s only comprehensive silicon-accurate device noise analysis and delivers near-linear performance scaling with the number of cores. For large circuits, it delivers >10M-element capacity, the industry’s fastest near-SPICE-accurate simulation, and mixed-analog-digital co-simulation with leading Verilog® simulators. Available licenses include AFS circuit simulation, AFS Transient Noise Analysis, AFS RF Analysis, AFS Co-Simulation, and AFS Nano SPICE.

“We are excited that Raydium selected the Analog FastSPICE Platform for verification of their TFT-LCD panel ICs,” said Ravi Subramanian, President and CEO of Berkeley Design Automation. “Delivering competitive high-performance ICs for large-size display panels is a significant challenge. Raydium's selection of the AFS Platform validates, once again, that Berkeley Design Automation is an essential partner to leading edge companies in display electronics.”

Product News

Altium Releases Maxim Board-Level Components as Online Resources

28 March 2012

Altium announced the release of new board-level components developed for a collection of Maxim’s analog and mixed signal devices, to its online content delivery system, AltiumLive.

The announcement highlights another step in Altium's continuous expansion of the design content available through AltiumLive. Establishing cooperative relationships with electronic component companies such as Maxim allows Altium to deliver high quality design content directly to electronics designers using Altium Designer, via its online services.
The new components released to AltiumLive include Maxim's smart building block products such as 1mm x 1mm 4-Pin comparators, MEMS-based real-time-clocks, point-of-load (POL) regulators and 'beyond-the-rails' multiplexers. Also in this release is a collection of design content for analog signal chain, interface and power devices.

Available online through AltiumLive, the unified board-level components are developed and maintained using the latest Maxim source data. The design-ready components include schematic symbol and PCB footprints with detailed 3D models for mechanical integration during the PCB design process in Altium Designer. Through relationships formed with electronics suppliers such as Digi-Key, Mouser and Newark, the Altium board-level components also include real-time supply-chain information, such as supplier choice, pricing and availability.

"Relationships with key parts manufacturers such as Maxim pave the way to providing our customers with high-integrity component resources that are ready to use in Altium Designer" said Rowland Washington, Content Development Manager for Altium. "Hosting design content in AltiumLive allows us to update and maintain an ever increasing pool of valuable design resources for Altium Designer users".

The new release of Maxim unified components with supply-chain information adds to the collection of Maxim design content available from the AltiumLive Content Store, which already includes Maxim's memory and microcontroller devices.

"Providing Maxim content through AltiumLive really helps us to provide our mutual customers with access to up-to-date Maxim products," said Shailendra Mahajan, Executive Director of Strategic Segment Marketing at Maxim. "This further enhances our ability to provide a streamlined and efficient design experience when using Maxim products, and helps AltiumLive users meet their design and production milestones."

The board-level components for the new and existing Maxim devices can be accessed online from the Unified Components area in the AltiumLive Content Store. Within Altium Designer 10, the ready-to-use components and supply-chain links are available though the Vault Explorer, which directly accesses Altium’s managed component vaults via the AltiumLive web portal.

More information on the board-level components and how they are accessed in Altium Designer is available from AltiumLive and in the related blogs. Maxim products are available directly from Maxim online or from a range of Maxim authorized distributors worldwide. For more information, go to www.maxim-ic.com.

Arena Solutions and ERP Logic Partner to Bring Integrated Cloud PLM Solution to SAP® Business ByDesign™ Customers

2 April 2012

Arena Solutions and ERP Logic, an SAP® channel partner and global business solutions implementation and consulting company, announced a strategic partnership with the intent to provide an end-to-end cloud product lifecycle management (PLM) solution for SAP® Business ByDesign™ customers.

Leveraging Arena's ERPExchange module, ERP Logic has developed a connector that will eliminate the need for manual data entry from the PLM application to the enterprise resource planning (ERP)
application, streamlining the process of transferring up-to-date product data from Arena's software to the SAP Business ByDesign solution. The integration will enable both ERP Logic and Arena Solutions to extend the benefits of cloud PLM and cloud ERP to their respective ecosystems.

"We are extremely excited about this strategic partnership," said Alan Fang, COO of ERP Logic. "As SAP continues to extend its manufacturing capabilities with its cloud solution SAP Business ByDesign, partnering with a proven cloud PLM solution provider like Arena Solutions will allow us to deliver a more robust and complete manufacturing solution to the market. We believe the relationship with Arena will be beneficial to SAP Business ByDesign customers and Arena customers alike."

"This is a great partnership for a number of reasons," said Andrea Pitts, VP of Sales and Alliances at Arena Solutions. "ERP Logic is a very successful, respected, and active SAP Master VAR. As we look to partnerships to support Arena's growth, going to market with ERP Logic is a solid business decision. Additionally, the integration of Arena with SAP Business ByDesign enables us to offer all sizes of discreet manufacturers a right-sized, right-priced, end-to-end cloud-based solution. We expect customers to see considerable value from the combined solution."

**Align Technologies benefits from Arena's solutions**

Arena helped Align Technologies, a pioneer in the market for invisible orthodontics and a leader in the evolution of digital dentistry, cut ongoing compliance costs by more than $250,000 annually with an effective solution for BOM and change management. Change implementation used to take 22 days, but now takes only three to five days. According to Meredith Yost, Document Services Manager at Align, "Arena provides Align with all the functionality we need to streamline critical data management processes, manage compliance and make sure our personnel have vital product information at their fingertips. We have been able to significantly reduce our operational costs while improving productivity."

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**Autodesk Certifies GibbsCAM for Autodesk Inventor 2013**

30 March 2012

Gibbs and Associates announced that GibbsCAM has been certified for Autodesk Inventor 2013 3D mechanical design software under the Autodesk Inventor Certified Applications Program. Certification for Autodesk Inventor 2013 marks the twelfth consecutive year that GibbsCAM has been certified under the program, having achieved certification every year since the program began.

Autodesk Inventor software gives manufacturers the ability to digitally design, visualize and simulate how a product will work under real world conditions before it is built, which helps reduce cost and increase efficiency. GibbsCAM directly opens Autodesk Inventor part models, allowing CNC programmers and machinists to readily program machine tools from the models, to extend cost reduction and efficiency through the programming and machining processes. Certification demonstrates that the product is of high quality and up to date, and that it provides the highest level of interoperability with Autodesk Inventor software.

“We are pleased with Autodesk’s recognition of our continued interoperability with Autodesk Inventor, which allows our joint customers to directly read models and assemblies into GibbsCAM,” said Robb Weinstein, Senior Vice President of Sales and Strategic Planning of Gibbs and Associates. “Repeating our certification, year after year, provides assurance to these customers that they can continue to take
advantage of the productivity they’ve gained from the combined products. It also assists and encourages our GibbsCAM Resellers, worldwide, in providing uninterrupted support for Autodesk and its customers.”

GibbsCAM offers integration with Autodesk Inventor, by directly reading Autodesk Inventor IPT (part model) files, preserving all color information assigned within Inventor to provide continuity in recognizing and communicating part and feature attributes. Once machining processes are defined in GibbsCAM, they are automatically updated when the Inventor model is revised. GibbsCAM also directly reads AutoCAD DXF and DWG files, enabling use of part geometry to program machining processes.

“We are very pleased to have Gibbs and Associates renew Inventor certification for GibbsCAM,” said Jim Quanci, director of the Autodesk Developer Network at Autodesk. “Their constant dedication to interoperability with Autodesk Inventor, ease of use, and support for manufacturing customers is exemplary. We are proud to have companies like Gibbs and Associates as partners in delivering flexible, easy-to-use, and extensible applications to our manufacturing customers.”

GibbsCAM has a simple-to-navigate interface, with language and icons familiar to programmers and machinists, allowing its users to take advantage of its capabilities – from minimizing the learning curve, to making manufacturing engineering tasks and production machining intuitive and efficient. GibbsCAM provides the capability to program the most complex machining processes, and the flexibility to allow user-preferred approaches to machining, with options that are logical to programmers.

GibbsCAM’s full associativity of geometry processes and toolpaths accommodates updates to Autodesk Inventor part geometry and process parameters. CNC programmers can optimize parts for machining and program machine tools to make the parts, whether they have simple geometry needing only 2-axis turning or 2.5-axis milling, or complex geometry requiring the latest 5-axis machining centers, MTMs or Swiss-style turning centers. GibbsCAM verifies toolpaths with gouge detection and interference checking, and enables additional testing and prove-out with a dynamic display of all moving components of a machine tool as it makes a part. These and many other features of GibbsCAM help manufacturers eliminate scrap, reduce cycle times, and maximize efficiency, safety and profits.

In addition to its perennial certification of GibbsCAM for Autodesk Inventor, Gibbs and Associates is an authorized member of the Autodesk Developer Network and is an Autodesk Authorized Independent Software Vendor.

Automation of Assembly Quality Control: Noomeo and Kineo CAM to Cooperate

April 2012

Noomeo and Kineo CAM announce their collaboration to develop a solution for automatic control of the quality of mechanical assemblies.

Nowadays, most products that surround us are designed with computer-aided design (CAD) software. Resulting digital models (CAD models) are then used for the development of means of production that will enable the manufacture of parts.

One major difficulty is then to ensure that the result of production conforms to the original design. Non Destructive Testing (NDT) is a set of methods and techniques of perception and action implemented to
The origins of manufacturing errors are numerous: poor adjustment of machinery, tool wear but also, human operator errors when performing manual assembly, or when preparing machining or assembly performed by machines or robots.

In this context, Noomeo and Kineo CAM are collaborating to develop a solution called CAAMVis aiming at automating the quality control of mechanical assemblies by Artificial Vision. No learning phase is required other than loading the CAD model and identification of control points. Time savings are even greater when production lines must adapt to frequent configuration changes.

The assembly is inspected by the CAAMVis control system whose architecture consists of a robot arm equipped with a 2D/3D vision sensor, software for image processing and automatic comparison with stored digital models and software for automatic computation of 3D control sequences that are executed by the robot.

The main operations addressed by CAAMVis are:

- automatic selection of control points computed from the model and the current state of the assembly,
- motion planning of part holding and / or sensor holding manipulators allowing to reach previously computed control points,
- execution of generated robot trajectories,
- automatic comparison between the digital model and measurements made at each stage to check the compliance of the assembly.

The CAAMVis project led by Noomeo is supported by the Midi-Pyrénées region where both SMEs are located; if the targeted markets are numerous, the solution will initially focus on applications for aircraft structural assemblies.

**AVEVA Releases AVEVA Pipe Supports - Marine**

4 April 2012

*AVEVA’s Marine Technology & Service Centre develops new product with leading Asian shipbuilders to increase design and production efficiency*

AVEVA announces that AVEVA Pipe Supports – Marine 12.1, an entirely new specialised product within the AVEVA Marine portfolio, is now available. Designed to meet the unique requirements of the shipbuilding industry, it was developed in collaboration with leading Asian shipbuilders at AVEVA’s Marine Technology & Service Centre (MTSC) based in Busan, Korea. AVEVA Pipe Supports - Marine increases design and production efficiency through the precise definition and management of pipe supports, saving costs and compressing project schedules.

'AVEVA Pipe Supports - Marine offers a highly tuned user interface, improved design consistency, accurate materials information and reduced production time compared to other non-specialised tools,' comments Stéphane Neuvégise, Head of Business Management – Marine Systems, AVEVA. 'Users benefit from greater flexibility and control, while shipyards benefit from reduced production time and costs. This new product is a good example of how we are working to make shipbuilding altogether more efficient and cost effective'.

'Pipe Supports – Marine draws on the experience of an already established solution in use by hundreds
of our plant customers and combines the insight and experience of the shipbuilding industry’, said Dave Wheeldon, Chief Technology Officer, AVEVA. 'It has been created with direct involvement by leading names in the Marine industry. This collaborative approach is an important part of AVEVA’s strategy to develop game-changing solutions for our customers'.

AVEVA Pipe Supports - Marine makes available tools to create pipe support details in the AVEVA Marine 3D model and then automatically create manufacturing drawings for each pipe support. Learn more about AVEVA Pipe Supports - Marine.

All AVEVA Marine products are part of AVEVA’s Integrated Engineering & Design (IE&D) approach which improves project efficiency and reduces engineering and design costs by offering complementary products that draw on common processes, disciplines and deliverables, through a single managed information model. There are three categories of product within the IE&D approach:

AVEVA's Engineer products create hullform, compartmentation, schematics, diagrams, datasheets, engineering lists and indexes.

AVEVA's Design products create 3D models for detailed design, and produce all associated production information.

AVEVA’s Manage products enable global work share, clash management and design review.

**CAD Schroer: Building a 3D Factory on a Rich 2D Legacy**

April 2012

In the CAD and process engineering world, the 2D versus 3D argument is still going on. But for CAD Schroer it’s the right mix of - and the seamless integration between - 2D and 3D that counts. Its software is designed to bridge the gap, helping engineers to people build 3D factories on a rich 2D legacy, for example.

According to a recent Cadalyst survey 73% of companies use a mix of 2D and 3D CAD. About 20% work just in 2D, and only 6% work just in 3D. A mix between 2D and 3D is the most widespread scenario, with companies looking for a flexible solution that delivers both disciplines, helping to meet the diverse challenges faced by manufacturing and engineering organisations.

**Getting the most out of existing 2D data**

Legacy data are a significant corporate asset. They are often used as the basis of new projects, ensuring design consistency and accuracy, and saving considerable time during the concept stage. CAD Schroer’s solutions allow companies to integrate existing 2D CAD drawings and raster data into new projects, with the ability to subsequently derive new 2D data or create new 3D models.

**2D or not 2D – that is not the question**

With 25 years of experience using and developing diverse 2D and 3D CAD, plant design and factory layout software, CAD Schroer is bemused by the pundits who treat pure 3D as the ultimate goal. Statistics show no increase in this area since 2008. “It’s not a choice of 2D or 3D,” explains CAD Schroer Account Manager Dr Martin Schwelm. “It’s about the right mix for each situation. New 3D users don’t want to throw away existing data, and need to continue providing 2D drawings to customers or contractors. There are many benefits to 3D; equally most companies highly value 2D at certain design
stages.”

**The best of both worlds**

Factory layouts are typically done in 2D. But in the world of process plant or factory design, where there is a need to lay out complex piping systems or plan process lines on different levels, a 3D approach with clash detection becomes essential. And in highly competitive sales situations, 3D visualisation is a great differentiator.

CAD Schroer, experts in hybrid 2D/3D software, helps get the mix right by allowing designers to build on their 2D investment. Its plant design and factory layout software is easy to implement, and allows 2D users to jump on board quickly. The software offers a 2D to 3D approach, using existing 2D layouts to quickly build a 3D world. Engineering disciplines like piping, steel and HVAC are provided through parametric 3D component libraries with auto-routing and auto-modelling tools. 2D drawings are automatically generated from models, and easily edited with the integrated professional 2D drafting system. Old and new 2D and 3D data thus combined in one project can be checked for inconsistencies and interferences, and visualised in 3D.

MPDS4 Plant Design and 2D/3D Factory Layout Software:

http://www.cad-schroer.com/Software/MPDS4

“Few companies can afford to throw away their 2D legacy. We say: don’t. We’ll help you build on it, either by providing the software that makes a transition easy, or through our factory modelling services - the quickest way to get going with large-scale 3D,” Dr Schwelm concludes.

CAD Schroer 2D to 3D factory modelling services:

http://www.cad-schroer.com/Services/Factory_Modelling/

Video: Video: Factory Layout with MPDS4

http://youtu.be/VXytNWEm2D0

Click here to return to Contents

**Dassault Systèmes Introduces SolidWorks Plastics Software**

2 April 2012

Dassault Systèmes unveiled SolidWorks® Plastics software, tools that enable users to predict and avoid manufacturing defects during the earliest stages of plastics part and injection mold design.

The new products run fully embedded inside of SolidWorks, providing part designers and mold makers with familiar and intuitive workflows so they can optimize their part and mold designs for manufacturability. The ability to make design changes early helps ensure that the mold works right the first time, reducing or eliminating the need for rework and improving part quality. In addition, SolidWorks Plastics provides users with valuable knowledge so they can determine whether changes to the part geometry, mold design, material selection or processing conditions will have a positive impact on the ability to easily manufacture their products.

The SolidWorks Plastics products are based on technology from SIMPOE SAS (SIMPOE), one of the leading providers of plastics injection molding simulation software. As a SolidWorks Gold Partner, SIMPOE currently provides fully integrated, fully interoperable, “single window” functionality for
SolidWorks. The new solutions products build on the previous relationship and will be offered under the SolidWorks brand.

“For a lot of industries, such as Consumer package goods, using plastic molds provides added value in quality, time and cost savings. We believe a significant percentage of our installed user base is involved in plastic part or injection mold design and will benefit from the robust features in SolidWorks Plastics,” said Monica Menghini, executive vice president, marketing, Industry & Corp Communication Dassault Systèmes. “The addition of SolidWorks Plastics into our product portfolio allows us to expand into new areas while following the traditional SolidWorks focus on ease-of-use and features that provide real benefits to customers. The new offering provides designers fast, accurate and easy-to-use tools that make plastics simulation-driven design a reality.”

“Extending our relationship with Dassault Systèmes via the 3DS SolidWorks brand allows us to leverage their highly-skilled reseller channel and offer a high-quality, cost-effective solution to help part and mold designers reduce errors, cut costs and speed time to market,” said Alain DuBois, president and CEO at SIMPOE. “This seamless integration of solutions means a designer never has to leave the familiar SolidWorks environment to optimize their part and mold designs.”

“With 40 years in plastics development, I’m excited by SolidWorks Plastics,” said Ed Honda, president, hondaDesign, LLC. “Users will be able to optimize part and mold designs in the earliest stages of development and pass these benefits on to customers.”

SolidWorks Plastics will be offered in two packages – SolidWorks Plastics Professional for part designers, and SolidWorks Plastics Premium for mold designers and mold makers.

The first release of SolidWorks Plastics 2012 will be available in North America in April, with other regions and countries to follow later this year. For more information on SolidWorks Plastics, please visit: [http://www.solidworks.com/plastics/](http://www.solidworks.com/plastics/), [http://www.3ds.com/Solidworks](http://www.3ds.com/Solidworks)

**Geomagic Delivers Updates to its 3D Imaging and Metrology Product Line**

4 April 2012

Geomagic® announced the first service release of the Geomagic 2012 product lines. The Geomagic 2012 SR1 product line builds on the innovations that were introduced in the initial 2012 product release, with a focus on even faster and more robust processing of large data sets, expanded availability of embedded CAD importers, and increased accuracy.

Enhancements to the products affect Geomagic Studio®, Geomagic Wrap®, Geomagic Qualify™ and Geomagic Qualify Probe™.

This latest release implements Tech Soft 3D’s Hoops Exchange v5.0 software, which enables CAD interoperability into the Geomagic Qualify products. Improvements include:

- Updated CAD format support including Dassault Systems’ CATIA V5 R21 and SolidWorks 2012, plus NX 8, and Solid Edge ST4 from Siemens PLM
- New PMI support for CATIA V5 R21, as well as JT and STEP files
- Native support for PTC’s Creo files

This widened format support delivers greater freedom for customers to natively import 3D CAD data
files of their choice into Geomagic Qualify and Geomagic Qualify Probe for immediate comparison to inspection and measurement data in quality workflows.

Enhancements to the Geomagic platform technologies which form the backbone to Geomagic applications enable faster and more intuitive user workflows, especially with large data sets. Users can now align data at low resolution, and quickly apply the transforms to the original, high resolution data. More robust processing for noise reduction, and global registration means that large data can be turned into usable 3D faster and more accurately.

Improvements to the QuickProbe function enable more intuitive feature creation as a part is being measured by customers in an inspection workflow using a portable CMM. In addition, the ‘Best Fit’ alignment for probe data delivers users greater confidence that the nominal model and probed data are perfectly aligned for measurement and comparison.

Commented Kevin Scofield, Senior Product Manager, Geomagic, “While the 2012 product launch delivered game-changing functions for customers last November, this release reaffirms and strengthens the products for even faster and more accurate functionality.”

Geomagic 2012 SR1 is available now for Maintenance customers to download at no charge. Please visit the Geomagic portal for more information.

All versions of Geomagic products are available for free 30-day trial versions at: http://www.geomagic.com.

Injection Molding Simulation Software Now Available With Real-Time Feedback

3 April 2012

Autodesk, Inc. announced the availability of Autodesk Simulation DFM (Design for Manufacturing) software, the industry’s first real-time injection molding simulation software that provides real-time feedback. The CAD software plug-in provides designers of plastic parts with a faster and easier way to determine the impact of design decisions on manufacturability, cost and sustainability concerns.

Based on Autodesk Labs technology also known as Project Krypton, Autodesk Simulation DFM seamlessly integrates with Autodesk Product Design Suite software, and specifically Autodesk Inventor software, and provides a complementary technology to Autodesk Simulation Moldflow software. Autodesk Simulation DFM also works with Dassault, SolidWorks and PTC Creo software to support companies working in a multi-CAD environment.

“With Autodesk Simulation DFM, designers of plastic parts can more easily create designs that are viable from a manufacturing standpoint, while helping ensure low costs and sustainability,” said Robert “Buzz” Kross, senior vice president, Design, Lifecycle and Simulation at Autodesk. “Users do not need a simulation background to take advantage of Autodesk Simulation DFM — the software is highly intuitive and easily integrates into any design workflow.”

Adding Real-Time Feedback to Design Workflow

Powered by Autodesk Simulation Moldflow injection molding simulation technology, Autodesk Simulation DFM provides real-time feedback through specific and familiar design indicators, all while the design is still taking shape. Green, yellow and red indicators identify potential manufacturing, cost and sustainability concerns as a designer is creating his or her vision. When potential problems are
found, the designer receives explicit, real-world information about the source and location of the problem so it can be addressed as early as possible in the process.

Because Autodesk Simulation DFM works directly with the designer’s CAD application, there is little need for additional training. The tool is also “always on” and doesn’t require much user input: it updates continuously, providing manufacturing feedback as quickly as the user can create a design.

For additional information about Autodesk Simulation DFM or other Autodesk Simulation technologies, contact the SIM Squad at simsqaud@autodesk.com.

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**Intergraph® Supports the ISO 15926 Standard with the Release of SmartPlant® P&ID ISO 15926 Export Utility**

3 April 2012

Intergraph® released its SmartPlant® P&ID ISO 15926 Export Utility, a commercially available solution to support interfaces based on the ISO-based data exchange. This release further demonstrates Intergraph's commitment to open interfaces and standards.

SmartPlant P&ID ISO 15926 Export Utility offers data exchange benefits between the process design schematics and the 3D physical design for engineering companies, as well as facility owners. This allows piping and instrumentation diagrams (P&IDs) to be exported in the ISO 15926 format, which means data as well as graphical content can be exchanged with other ISO-compliant plant design and information management solutions. Intergraph worked with longtime customers to develop an explicit value proposition and technical requirements used to guide the development of the SmartPlant P&ID ISO 15926 Export Utility.

"The release of the SmartPlant P&ID ISO 15926 Export Utility is another step that demonstrates Intergraph's continued commitment to satisfy client demand for openness and interoperability," said Patrick Holcomb, Intergraph Process, Power & Marine's executive vice president of global business development and marketing.

Holcomb cites the SmartPlant P&ID ISO 15926 Export Utility as another in a long line of Intergraph efforts to support open data exchange between its industry-leading solutions, and other plant design solutions developed by other technology providers. This new capability will be further discussed during the Fiatech™ Annual Technology Conference & Showcase in Miami.

Intergraph is an active, longstanding member of Fiatech, an Austin, Texas-based not-for-profit international consortium working together to lead global development and adoption of innovative practices and technologies to realize the highest business value through a capital asset's life cycle. Recent Fiatech initiatives have helped accelerate the delivery of interoperable tools, systems, work approaches and processes, including an open source exchange of information through ISO 15926.

Holcomb, who represents Intergraph on Fiatech's board of advisers, said, "Intergraph and its SmartPlant Enterprise integrated solutions is a longtime supporter of industry standards. This support dates back to the ISO 15926 origins in the 1990s. Since then, we continue to contribute to valuable standards and develop interfaces that support compliance and satisfy client demand."

SmartPlant P&ID is an asset-centric, rule-driven P&ID solution in the global market and has created more than 500,000 P&IDs for plants from around the world. It helps users to develop and manage their
facilities using SP P&IDs with a focus on the plant asset rather than the documentation representation. This accurately reflects the as-built plant for enhanced safety, quality, efficiency and productivity.

For more on Intergraph's support of ISO 15926, visit http://www.intergraph.com/ppm/iso15926.aspx.

Click here to return to Contents

IronCAD Native Translator Bundle Product Update #1 Released for the IronCAD Design Collaboration Suite 2012

3 April 2012

IronCAD, LLC announced the immediate availability of the IronCAD Native Translator Bundle Product Update #1 for the IronCAD Design Collaboration Suite 2012 to subscription support customers. The Translator Product Update #1 delivers access to the latest versions for Native CAD formats such as CATIA V5, CREO (Pro/E), UG/NX, SolidWorks, and Inventor along with improvement in data transfer quality extending IronCAD’s leading data interoperability.

“Having the ability to share data seamlessly amongst the design chain is critical in business today,” said Cary O’Connor, Vice President of Marketing at IronCAD. “This release provides the latest versions of the native formats to allow users to share data easily without users worrying if they are able to reuse data from their suppliers and without wasting time repetitively trying to find the correct version” he continued.

The IronCAD Native Translator Bundle Product Update #1 now supports the following formats.
IronCAD Releases Product Update 1 for the IronCAD Design Collaboration Suite 2012

3 April 2012

IronCAD, LLC announced the immediate availability of Product Update #1 for the IronCAD Design Collaboration Suite 2012 to subscription support customers. Product Update #1 delivers enhanced productivity and quality improvements empowering customers to continue to produce quality products while reducing the time spent in the design process.

"Product Update #1 continues to expand the productivity gains across the design process that can be achieved from the IronCAD Design Collaboration Suite 2012," said Cary O’Connor, Vice President of Marketing at IronCAD. "This release focused on providing quicker access to commands which reduces time spent navigating the user interface resulting in an increase in productivity during the design process" he continued.

Some of the productivity highlights found in Product Update #1 include:

**Quick Command Access via Mouse Gestures** – Using a simple mouse action, users can access commands without spending time navigating the user interface. These mouse gestures are fully customizable and allow selection state behaviors to provide extensive levels of flexibility to users for access commonly used actions. This reduction in navigation time and reduced mouse travel can drastically increase productivity over the entire design cycle.

**Extended UI Customization** – Additional flexibility has been added to the user interface to allow user to fully customize the application to best fit the users design process. Users now have more control in the ribbon bar interface, access to the Quick Access pop-up commands, and the newly available mouse gesture capability.

**Quick Access to Recent Commands** – Throughout the design process, it is often common to reuse a common set of actions. This latest update provides a convenient method to access these recently used commands to improve the workflow of the design process.

**Direct Editing Of Multiple Parts at Once** - Whether it is imported data or natively created data, users can now directly modify geometry of multiple parts in a single operation.

**Improved Performance** – Product Update #1 continues to improve the overall performance in areas of modeling updates.

In addition to these productivity improvements, Product Update #1 delivers over 250 quality improvements providing stability and reliability to users. Overall, early customer feedback has shown over 20% improvement in productivity and increased customer satisfaction with the quality.

For a preview of these and some additional improvements included in Product Update #1 for the IronCAD Design Collaboration Suite 2012, check out IronCAD’s YouTube Channel at: http://www.youtube.com/playlist?list=PLC0A6992D42A0D22A.

Latest Enhancements to Parasolid Deliver Significant Productivity for High-End Applications

4 April 2012
Siemens PLM Software announced the latest release of Parasolid® software, its 3D geometric modeling component for computer-aided design, manufacturing and engineering analysis (CAD/CAM/CAE) as well as architecture, engineering and construction (AEC) applications. Parasolid version 24.1 delivers a set of capabilities supporting automated workflows and direct editing in high-end applications.

“This latest release of Parasolid delivers an impressive set of enhancements that enable application developers to automate more and more highly complex workflows in order to boost end user productivity,” said Paul Sicking, Chief Technology Officer, Siemens PLM Software. “By working with the most demanding application developers and end users, the Parasolid team is able to identify barriers to greater productivity and provide ground breaking technical solutions built on the foundation of the proven modeling technology of Parasolid.”

Parasolid version 24.1 includes enhancements in a wide variety of areas with a special focus on three primary categories.

Direct Modeling – The accelerating trend towards hybrid modeling applications, which combine history-based and direct modeling techniques, offers enormous productivity gains to end users. Parasolid version 24.1 adds to an already extensive range of operations on features comprising a set of faces. Enhancements include the ability to interrogate a model to determine entities related to the one being edited, intelligent repair of complex cases that arise when moving, editing and deleting faces, repair of holes created by face deletion and improved diagnostics when an operation cannot be performed as requested. Each of these is an essential tool for application developers who need to identify and edit features without the presence of a feature history tree.

General Modeling – The Boolean operations have been enhanced to allow the subtraction and intersection of general models. There are also enhancements to trimming neutral sheets and creating neutral surfaces by offsetting. Each of these enables general models to be edited as the primary design rather than as a model derived from the boundary representation (b-rep) model. This is particularly useful in CAE and AEC providing productivity and flexibility benefits to application developers and end users.

Surface Modeling – A number of enhancements have been added to help application developers identify and remove undesirable surface characteristics at the earliest opportunity in order to optimize performance and robustness in subsequent operations. These include replacing a collection of smooth faces with a single face, simplifying the results of sweep operations and locating and repairing curve degeneracies.


Click here to return to Contents

**Latest Synplify FPGA Synthesis Software Offers New High-Reliability Features and Improves Productivity for FPGA-Based Prototyping**

2 April 2012

Synopsys' Synplify FPGA synthesis tools reduce runtime by up to 30 percent and add new soft error mitigation capabilities

**Highlights:**
- Continue-on-error capability that can significantly reduce the number of iterations required for design bring-up

- Triple Modular Redundancy and inference of error-correcting code RAMs reduces the effects of soft errors such as single-event upsets

- Fault-tolerant, finite-state machine implementation with Hamming-3 encoding delivers more reliable design operation

- Improved synthesis algorithms enable faster runtime

Synopsys, Inc. announced availability of the latest release of its Synplify Pro® and Synplify® Premier FPGA synthesis tools. The Synplify 2012.03 products include improved synthesis algorithms that accelerate runtime by up to 30 percent. In addition, the Synplify Premier software is enhanced with a new continue-on-error feature to address FPGA designers' need for fast turnaround time by enabling them to generate a report and fix all errors resulting from missing or incorrect design definitions at the end of the hardware description language (HDL) compilation step rather than incrementally fixing an error and rerunning the compile step. This capability is especially important with SoC prototypers who may not be intimately familiar with the HDL code they have to implement in an FPGA. Additionally, the new Synplify Premier software release further automates the process of building high reliability and fault tolerance into an FPGA design using a combination of advanced features including selective triple modular redundancy (TMR), fault-tolerant error correcting code (ECC) memories and Hamming-3 encoding for detection and correction of soft errors.

"Our customers continue to face shorter time-to-market windows, making it essential they complete their designs faster," said Alex Grbic, director of marketing for software, DSP and IP at Altera. "The runtime improvement in Synopsys' Synplify products combined with the compile time advantage we have in our Quartus II software provide our mutual customers a productivity edge that allows them to reduce overall implementation time when designing for our latest 28-nm FPGAs."

"Designs targeted for safety critical applications such as those used in defense, aerospace, medical, industrial control and automotive markets require the highest level of quality and reliability," said Tom Feist, Senior Director of Design Methodology Marketing at Xilinx. "The new 2012.03 Synplify Premier product infers Xilinx error correcting memory and automatically makes the connections to the design. This is especially useful for high reliability applications where errors cannot be tolerated."

The new Synplify 2012.03 software release offers FPGA designers significantly shorter design cycles. The continue-on-error feature addresses FPGA-based prototypers' need for fast turnaround time by eliminating the need to address errors one at a time as they are found during HDL compilation. It is especially useful for FPGA-based prototypers who may not be as familiar with the source HDL code. Instead of stopping with each error, the tool continues compilation after an error is found, generating a report of all the errors encountered so that they can be addressed at once, without re-compiling between each fix. To further simplify the process for ASIC prototypers, the Synplify synthesis tool has a datapath latch conversion feature to automatically convert an ASIC design to an FPGA implementation, making it possible for the designer to use a single set of source files to implement the FPGA-based prototype. Users of Synopsys' Certify® multi-FPGA prototyping environment also benefit from the streamlined error-handling and conversion features in the new Synplify software, which helps speed the validation process and reduce development time.

The latest release of the Synplify Premier software enhances its support for high reliability by giving designers the ability to address radiation effects such as single event upsets (SEUs) through multiple
error mitigation techniques including localized and selective TMR implementation. In addition, the Synplify Premier software can infer error correcting memory and automatically make the proper connections to take advantage of ECC memories offered by FPGA vendors. The latest release also supports fault-tolerant finite-state machine (FSM) implementation using Hamming-3 encoding to automatically detect and correct single bit errors that might occur in the registers of an FSM.

"Rapid bring-up of a new design is critical for design teams trying to meet tight market windows. And Synopsys synthesis technology can reduce the number of design iterations and provide diagnostic information sooner," said Ed Bard, senior director of marketing of the Solutions Group at Synopsys. "With the combination of improved algorithms that deliver faster runtimes and the new continue-on-error feature and hierarchical design techniques, FPGA-based prototypers and FPGA designers alike can significantly reduce the time required to get a working implementation of their design while continuing to see the high quality of results they expect from Synplify tools."

**Availability**

The 2012.03 release of the Synplify Pro and Synplify Premier synthesis software is available now. Customers with a current maintenance agreement can download this new version from Synopsys using their SolvNet® account. The Synplify FPGA synthesis products are supported on Windows and Linux, 32 and 64-bit platforms.

[Click here to return to Contents]

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**Lectra and WGSN Sign Global Partnership Agreement**

2 April 2012

Lectra and WGSN—a leading global trend forecaster announced a new global partnership.

Several events to unveil the partnership are planned over the next few months, starting with London in May.

For many apparel and fashion companies, trend research and design development often don't work together as closely as they should, nor are they fully integrated with the rest of the product development process. A process gap occurs as a result, meaning teams can't leverage coherent creative, technical, and production knowledge across the development cycle.

Lectra and WGSN stress that the best way to bridge this gap is with more open and efficient information sharing made possible by a strong foundation of technology and expertise. Together, the two companies will offer best practices to build a more streamlined and collaborative workflow between trends, design, and development.

"As market-leading brands in our respective sectors, WGSN and Lectra are natural partners. As the many customers we share know, WGSN and Lectra have a common mission—to improve efficiency through innovative technology systems and inspiration—right across the product development cycle. But this partnership isn't just about shared values. Together it will enable WGSN and Lectra to deliver uniquely powerful and exclusive new content and technology tools that will add value for current and future customers of both businesses worldwide," says Julie Harris, WGSN Global Managing Director.

Engaging the production knowledge found within most teams to tighten concept and design development means leaner design, fewer production issues, and an overall faster time to market.

**Lectra-WGSN Starter Pack: straight from trend to actionable design**
WGSN and Lectra customers can look forward to an Autumn Winter 2013/2014 Womenswear Starter Pack to be released in May. WGSN will edit macro trends from their AW 13/14 selection to use as the basis for key looks.

Lectra will develop WGSN's color and textile inspirations into a complete design package, including mood and presentation boards; printed, woven, and knitted fabrics; colorway suggestions; seasonal palettes and production-ready spec information. To really give designers an advantage, Lectra will also develop flat pattern blocks and 3D prototypes for key looks.

"Design and development have to be efficient from step one," says Anastasia Charbin, Marketing Director, Fashion at Lectra. "A production-ready trend and design pack, complete with patterns and virtual 3D prototypes, gives designers and product developers an enormous advantage. The ability to visualize style, patterns, color, and texture in 3D cuts their workload enormously. Having all the technical information behind the creative work means fewer errors when it comes to production," she adds.

**Starter packs will be a combination of anything from jackets to trousers to dresses.**

WGSN subscribers and Lectra customers will then have access to the style-packs, which are ready for use in Lectra Solutions right away. All designs and 3D virtual prototypes can then be adapted to express a unique brand identity. With these essentials in hand, design and trend teams will be able to hit the ground running immediately.

Womenswear trend packs are already available, with a menswear pack in development, and subsequent seasons as the calendar rolls on.

After the London event on May 2, a second event will take place in New York in July, followed by Shanghai in the autumn to reveal new trends and their corresponding WGSN/Lectra Starter Packs. The partnership events are by invitation only.

**LEDAS Assists STANKIN to Develop a New 3D Modeling Kernel**

3 April 2012

When STANKIN won the tender to develop Russia’s own 3D modeling kernel, it subsequently subcontracted R&D work to a number of Russian IT companies. One part of the 3D kernel will be developed by LEDAS Ltd of Novosibirsk.

The contract from the Russian Federation’s Ministry of Industry and Trade is for an original, Russia-licensable software kernel for 3D modeling. STANKIN is the popular name for the Moscow State Technological University, which is under the Federal Educational Institution of Higher Professional Education in Russia.

Three-dimensional modeling kernels are sets of software components upon which computer-aided design (CAD) and engineering software is written. Developing a new 3D kernel is an extremely complex task, because it requires mobilizing diverse disciplines in fields such as mathematics and information technology. The new kernel will be the basis of a new generation of software for design, reverse engineering, production planning, and technical documentation. It will allow speedy development of innovative products by Russian firms, allowing them to be competitive in the global market, and will become a part of the national technological basis.
For the new kernel, LEDAS will develop modules using sophisticated algorithms that based on computational mathematics and study of finite discrete structures. For instance, one difficult problem solved by LEDAS-developed algorithms is determining with high precision the intersections of arbitrary curves and surfaces.

LEDAS was chosen because it has thirteen years of experience in developing key software components for CAD, including projects it carried out for global leaders in the engineering software market. The projects included the development of an interval mathematical solver used in end-user tools for knowledge-based engineering; creating a geometric constraint solver and its application to parametric drafting, assembly design, animation, kinematics analysis, and direct modeling; establishing methods for converting polygonal meshes into subdivision surfaces, and the unfolding of 3D meshes on planes; calculating distances between 3D objects and performing real-time collision detection; developing feature-based CAD data translation; and inventing variational direct modeling.

“Our experience in the domain of engineering software is based on hundreds of man-years of development expertise,” said Alexey Ershov, CEO of LEDAS. “Our experts have a thorough knowledge of the mathematical frameworks of CAD, and so have mastered to perfection the methods of implementing technology-intensive projects efficiently in industrial programming.”

“A combination of unique achievements by STANKIN coupled with the rich experience of our subcontractors in developing engineering software for industrial use leaves no doubt whatsoever that the task designated by the government of the Russian Federation will be completed in full and right on time,” added Sergey Grigoriev, director of STANKIN.

About STANKIN Moscow State Technological University

Moscow State Technological University, or STANKIN, was founded in 1930 to support at that time one of the most important sectors of the economy, the tool-making industry. It did this by training highly-qualified specialists, because machine tool equipment and attachments, along with new technologies, control systems, and end-to-end computerization, form one of the crucial components of national wealth. This technological environment is important for any country.

Today STANKIN is more than an educational institution; it also functions as a research and production facility, houses The Institute of Design - Engineering Informatics of the Russian Academy of Sciences, and provides a network of research, academic, and production centers.

Nuage Releases Nuage Café, A Social Media Based Platform For Business File Sharing And Collaboration

3 April 2012

New Social Collaboration Tool Changes Landscape for PLM and Social Media Industry

Nuage, a leading provider of Social Business Collaboration solutions, announced the public release of Nuage Café, the company’s flagship platform for secure, fast and effective file sharing in a social media environment.

Nuage Café is designed to bring everyday personal social media practices to the workplace, providing an environment to securely share and manage business’ intellectual property while allowing virtual teams to seamlessly communicate and collaborate. The integration of social media based tools fosters idea
generation and ad-hoc innovation, making Café the ultimate solution for business across a broad spectrum of industries. Product features include:

- **Check-in/Check-out Capabilities** – Nuage Café allows users to check-in and check-out documents so revisions can easily be made without differing content from one user to the next.

- **Versioning** – Each time a document is checked in, the version number is incremented. Users also have the ability to access and download previous versions of the document.

- **Collaboration Portal** – Collaborate on a platform that functions like social media tools, so users can feel at home with work and optimize performance.

The basic Nuage Café subscription is free to users for up to 2GB of space. Nuage is offering the first 1,000 subscribers the opportunity to receive not only 2GB, but 4GB of space free. Up to 10 GB of space can be purchased for a minimal monthly fee of $20 USD.

“Nuage Café provides a social, collaborative environment designed for the workplace that is second nature to users,” said Chris Atkins, CEO of Nuage. “Our Café subscription introduces file sharing and other collaborative solutions that are optimized for a social media experience. Subscribers can be up and running in minutes, sharing information and data and managing their business processes.”

**Nuage**’s Social Business Collaboration solutions enable companies to use social media interactions to exchange thoughts and ideas in a way that is integrated with business processes, such as product lifecycle management (PLM), without the high costs and complexity. The company’s unique approach to process management via a social business collaborative environment and on-line business application suite allows users the flexibility and interactivity lacking in today’s management solutions.

**OPEN MIND Offers CAM Solutions for Medical Engineering**

3 April 2012

OPEN MIND Technologies AG offers hyperMILL®, a CAM software that improves the digital production of medical engineering products such as surgical instruments and implants. Materials that are difficult to work with and high surface quality requirements are two challenges that are particular to this area. hyperMILL® allows production processes to be optimised faster and more easily.

Companies benefit from the high manufacturing quality offered by hyperMILL®. Particularly with implants, optimal surface quality is crucial for ensuring compatibility in the human body. High-precision machining in medical applications using materials that are difficult to chip – such as titanium or hard metal – require optimal toolpaths and tool tilt angles. hyperMILL® offers a comprehensive concept for 5axis machining. Intelligent solutions, such as 5axis shape offset roughing and finishing, 5axis top milling or 5axis swarf cutting simplify the programming of demanding geometries, ensure high surface quality and reduce machine running times. The use of shorter and therefore more stable tools enables high-quality machining of high steep walls. Improved cutting conditions plus the reduced risk of chatter and tool breakage ensure the best results.

**Faster programming**

OPEN MIND relies on process automation and automated programming. The use of existing production expertise reduces programming times significantly. For example, hyperMILL® includes intelligent macros, which represent the next level in feature and macro technology. Thanks to intelligent macros,
users can save predefined rules and conditions for every stage of the machining process. Job steps are automatically assigned and adjusted to the corresponding geometry in accordance with these rules and geometry information such as diameter, depth, open or closed pockets. hyperMILL® also demonstrates its time-saving potential in the programming of recurring geometries and identical elements. Transformation techniques facilitate the arrangement and copying of programs across the workspace. A mirroring function facilitates the programming of symmetrical parts.

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**Oracle Announces General Availability of Oracle Endeca Information Discovery**

4 April 2012

**News Facts**

Oracle today announced the general availability of [Oracle Endeca Information Discovery](https://www.oracle.com/). Evolved from Endeca Latitude and Endeca MDEX, Oracle Endeca Information Discovery is an enterprise information discovery solution for the exploration and analysis of structured, semi-structured and unstructured data from diverse sources, including data warehouses, transaction systems, blogs, social media, sensor data and Big Data within the enterprise and beyond the firewall.

Built on Oracle Endeca Server (formerly Endeca MDEX), the offering automatically organizes and derives a model based on the data presented. This enables rapid deployment and evolution by providing an iterative "model-as-you-go" approach that frees IT from the burdens of traditional data modeling.

Endeca Information Discovery presents a consumer ease of use and is the only analytics technology with a user experience born out of consumer e-commerce. Its intuitive discovery interface combines search, faceted browsing and interactive analytics that enables untrained business users to explore and visualize vast amounts of internal and external data.

Customers today are using this solution for a wide range of data discovery applications that include warranty analysis, insurance claims analysis, criminal intelligence and social media sentiment analysis.

Oracle Endeca Information Discovery complements the trusted analysis of known data sources delivered by [Oracle Business Intelligence Foundation](https://www.oracle.com/), by enabling fast exploration of new or unanticipated questions. Endeca Information Discovery can leverage the metrics and models of Oracle BI Foundation and existing data warehouses together with other unstructured and structured data sources.

Oracle Endeca Information Discovery and Oracle Endeca Server are both certified to run on [Oracle Exalytics In-Memory Machine](https://www.oracle.com/) and are key components of Oracle's extensive range of Business Analytics products and solutions that are designed to help customers make smarter, faster decisions.

**Supporting Quote**

"Exploding volumes of data, untapped value in unstructured data, and an increasingly unpredictable and dynamic business environment ensure that data discovery will be an essential capability alongside classic business intelligence and data warehousing," said Gaurav Rewari, vice president of EPM and BI product development, Oracle. "Oracle Endeca Information Discovery is the enterprise category leader that provides immediate and significant added value to our customers."
Oracle Extends Business Analytics Portfolio with New Oracle Manufacturing Analytics and Oracle Enterprise Asset Management Analytics Applications

4 April 2012

News Facts
Continuing to deliver new innovations to its Business Analytics portfolio, Oracle announced two new Oracle Business Intelligence Applications, Oracle Manufacturing Analytics and Oracle Enterprise Asset Management (EAM) Analytics.

The industry's first and only in-memory analytic applications for Manufacturing and Asset Management analysis, the new offerings enable customers and partners serving manufacturing, energy production, utilities and other asset-intensive industries to gain better insights and make decisions at the speed of business.

Both solutions provide support for large numbers of concurrent users and are certified to run on Oracle Exalytics In-Memory Machine. Native support for tablet and mobile devices, such as the Apple iPad and iPhone is provided.

Oracle Manufacturing Analytics helps operations managers, manufacturing analysts, manufacturing and supply chain executives and production cost accountants gain insights into manufacturing processes, inventory and product quality.

Oracle Enterprise Asset Management Analytics helps plant and facilities maintenance managers, maintenance engineers, department managers and supply chain executives manage assets (e.g., plant, machinery, equipment, etc.) more effectively and align operational and financial efficiencies.

Built on Oracle Business Intelligence Foundation Suite, Oracle's pre-built, pre-integrated Business Intelligence Applications help accelerate time to value and reduce IT costs.

The new offerings complement other Oracle Business Intelligence Applications, including Oracle Financial Analytics, Oracle Human Resources Analytics, Oracle Supply Chain and Order Management Analytics and Oracle Procurement and Spend Analytics.

In addition, the new applications conform to Oracle's BI Applications enterprise data model, enabling cross-functional analysis across back-office and front-office business functions, providing better cross enterprise intelligence. BI Applications can work with a variety of ERP and CRM data sources, among them the Oracle E-Business Suite, Oracle's PeopleSoft, Oracle's Siebel CRM, Oracle's JD Edwards EnterpriseOne, Oracle's JD Edwards World, SAP and other third party sources.

Oracle Manufacturing Analytics
Oracle Manufacturing Analytics provides end-to-end visibility into manufacturing operations by integrating data from across the enterprise value chain.

The offering enables users to reduce production costs, improve product quality, minimize inventory levels and respond faster to customer demands.

With Oracle Manufacturing Analytics, customers can gain visibility into manufacturing schedules, cost, quality and service levels; correlate work order information with production plans; reduce work order cycle time and aging of open work orders; perform non-conformance and disposition analysis; and improve insight into raw materials and finished goods.

The offering is pre-integrated with Oracle E-Business Suite Manufacturing Applications, including
**Oracle Discrete Manufacturing, Oracle Process Manufacturing,** Flow Manufacturing, Hi-Tech Manufacturing Quality and Inventory modules.

**Oracle Enterprise Asset Management Analytics**

Oracle Enterprise Asset Management Analytics helps organizations understand the true cost of maintaining and operating assets.

End users can project expected asset life and develop strategies to reduce maintenance costs and increase uptime of critical assets, such as plants, machinery and equipment.

With Enterprise Asset Management Analytics, customers can track asset genealogy and run maintenance, work order and inventory cost analysis, as well as quality and resource analysis.

Oracle Enterprise Asset Management Analytics is pre-integrated with **Oracle E-Business Suite** Enterprise Asset Management (EAM) module, as well as IBM Maximo.

**Supporting Quote**

"For manufacturing and asset-intensive industries, maintaining the health of critical assets and optimizing production and inventory is the difference between bottom line business growth and failure," said Gaurav Rewari, vice president of EPM and BI product development, Oracle. "By extending Oracle BI Applications with Oracle Manufacturing Analytics and Oracle Enterprise Asset Management Analytics, we are enabling customers to get intelligence into the hands of key-decision makers at the speed of business, wherever the job may take them."

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**PartsList Becomes the First-Ever Cloud Tool for Documenting the Innovation BOM During Prototype Design**

30 March 2012

Arena Solutions announced that Arena PartsList has been adopted by electrical engineers to solve the challenges of documenting the innovation BOM during conceptual design.

The innovation BOM describes the list of parts that engineers are considering for a prototype. It is primarily made up of possibilities for critical components that will define the product, and notes about how these parts may be sourced.

Because the contents of this list need to be able to change frequently and rapidly as design decisions are made, electrical design engineers have traditionally kept these lists in paper format or on disparate spreadsheets to avoid the overhead of a revision-controlled system. But with PartsList, engineers finally have a way to organize the design process that doesn’t slow them down.

“We want to remove the presumption that all BOMs are equal,” said Steve Chalgren, Arena vice president of product and strategy. “The BOM you keep when you’re prototyping is not the same BOM you keep when you’re ramping to production—and so you need different tools to manage it. When you’re prototyping, you need to move as fast as you can without making mistakes. So at this stage in the game, the idea of redlining and routing changes is ridiculous—it’s just too much overhead. But you do need something to manage the output of innovation (the ‘innovation BOM’) and we’re happy to see that PartsList has become an incredible way to manage it.”"

PartsList makes conceptualizing, prototyping and documenting the innovation BOM easy. With
PartsList, engineers finally have a low-cost, flexible way to compare and choose parts, and collaborate with design partners and potential vendors during prototyping. By managing the innovation BOM in PartsList, engineers can actually save money because they are encouraged to do more part comparison, and are more likely to select parts for their designs with the most optimal technical fit, availability and cost.

PartsList automatically pulls documentation for parts design engineers are considering, and gives easy access to availability information, so engineers can conduct a comprehensive component comparison as a natural part of the innovation process. According to Steve, “It’s been long accepted that the earliest phases of conceptual design determine 80% of a product’s cost and influence quality, reliability and serviceability. So why are electrical engineers and architects left to fend for themselves while they make some of the most important analytical decisions for their new products? When you’re innovating, it’s important to have flexibility, but there is value in having helpful tools designed for this creative phase in product development rather than napkins or generic spreadsheets. Introducing PartsList to manage the innovation BOM gives you more control without slowing or limiting the flow of your ideas.”

PartsList, the first tool designed to manage the innovation BOM, is a cloud application that can be accessed at [http://www.arenasolutions.com/partslist](http://www.arenasolutions.com/partslist) and is free for personal use.

To learn more about Arena Solutions:
Visit the Arena Solutions website.
Visit the PartsList website.
Read the Arena blog on product design, development and manufacturing.
Follow @arenasolutions on Twitter.

ReverseEngineering.com™ Releases FARO EDGE and FOCUS 3D Software Add-in for SolidWorks
30 March 2012
ReverseEngineering.com a Certified SolidWorks Gold Partner plug-in now supports a high speed binary data base software add-in for point cloud processing in just seconds for SolidWorks Standard and SolidWorks Premium users.

Braxton Carter CTO states, “The ROI within weeks justifies this incredible hardware and software investment. We simplify the learning curves down to days with a very easy-to-learn proven workflow. “With this perfect combination of software and scanning hardware, customers can tune and solve their mining manufacturing process errors for complex volume and wear problems. Accident prevention design engineers can add-in handrails and add-in steps to meet MSHA Mine Safety and Health Administration requirements. This solution is perfect for companies concerned with a maintenance, repair and overhaul applications.”

Large scale digitizing and virtual teardown up to 393 foot range with accuracy to 3 millimeters, can be achieved with the FARO Focus 3D and ReverseEngineering.com software add-in. Produce incredibly detailed, three-dimensional images of complex environments, trucks, buildings, building interiors, roads and landscapes in only a few minutes that can easily be dimensioned, polygon meshed, and immediately be used for creating native features, and parametric interactive editing direct in SolidWorks.
About ReverseEngineering.com
Established in 1986, ReverseEngineering.com is an industry leader in supplying indigenous bridging software for Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM) systems, portable coordinate measuring machines (CMMs) and other scanning devices.

ReverseEngineering.com software bridges native CAD integration with 3D engineering applications, such as reverse engineering, inspection, and measurement.

SAP Unveils Strategy to Gain Predictive Insights from Big Data
3 April 2012
As organizations evolve their business strategies to remain competitive in ever-changing markets, they rely on today’s information to make choices for tomorrow. Empowering them with the ability to improve decision-making by predicting future outcomes, SAP today announced SAP BusinessObjects Predictive Analysis software. The new offering aims to equip more people with a modern, user-friendly, graphically stunning tool for predictive modeling and advanced visualization. The software is intended to harness and unleash the full value of “Big Data” when coupled with the power and speed of the SAP HANA platform, enabling organizations to reveal and act upon untapped opportunities and hidden risks.

Predictive modeling has traditionally been the domain of statisticians and data scientists. However, the intuitive interface and stunning visualization of SAP BusinessObjects Predictive Analysis are intended to bring predictive insight to an under-served user community – the business analyst. With the software, analysts can create models either by using the predictive algorithms included or can integrate and use algorithms from the widely-used R open-source data analysis and statistical language. SAP plans to enable customers to use the software for instant insight into large data volumes to anticipate future opportunities and risks. Examples include:

- Understanding how historical sales, costs and other key metrics translate to future performance
- Seeing how predicted results compare with goals
- Revealing the causes of customer satisfaction and employee turnover
- Showing how past and emerging trends impact the bottom line
- Finding correlations in data for cross-sell and up-sell opportunities
- Locating anomalies and clusters for targeted analysis

Unleash the Value of Big Data With SAP HANA
While SAP BusinessObjects Predictive Analysis is planned for availability via standalone deployment, the software is also intended to uniquely unlock the value in “Big Data” when utilized with the SAP HANA database, which provides a data mining and statistical function library. Access to data sources outside of SAP HANA is planned, including universes, SAP Sybase IQ server and more.

Once data – structured, unstructured or both – is loaded into SAP HANA or an alternative data source, data and business analysts will be able to benefit from intuitive predictive modeling, beautiful advanced visualizations and data exploration, all with a drag-and-drop interface for data selection, preparation and processing.
Insights can then be delivered to dashboards, alerts and mobile devices, or accessed by other analytics solutions from SAP such as the SAP BusinessObjects Business Intelligence (BI) platform, SAP BusinessObjects Explorer and SAP BusinessObjects Web Intelligence software, as well as Microsoft Office applications.

**Bring Predictive Analytics to Everyone in the Business**

SAP BusinessObjects Predictive Analysis and SAP HANA are important steps in SAP's goal of bringing predictive insight to everyone in the organization – not just the analysts. This means extending predictive capabilities to where people work: into business applications, BI and collaboration environments, and on mobile devices.

SAP has already delivered predictive applications powered by SAP HANA to numerous industries, and is aggressively expanding its predictive applications portfolio.

Utilities companies, for example, use SAP Smart Meter Analytics software to identify energy-consumption patterns and perform customer segmentation. Retailers use predictive algorithms in SAP HANA to hone in on product relationships and their associated financial performance in achieving corporate targets, as well as view store-level performance and conduct what-if demand model scenarios. Sales teams, similarly, use predictive capabilities extended into SAP BusinessObjects BI solutions to generate up-to-date pipeline reports, drill down on individual leads and make projections for the end of the fiscal period.

"Analytics solutions from SAP are powering a decision-making revolution for businesses that recognize the future starts a second from now, not a week or a year from now," said John Schweitzer, senior vice president and general manager, Analytics, SAP. "That's why predictive applications must be intuitive, where people work and powered by real-time performance. With SAP's comprehensive approach to predictive analytics, more people in the business can explore, visualize and share insights from exploding volumes and varieties of data."

SAP BusinessObjects Predictive Analysis is currently available via the SAP® Ramp-Up program.

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**Siemens PLM Software Significantly Enhances Decision-Making with New Active Workspace**

3 April 2012

Siemens PLM Software announced a new product in the Teamcenter® software portfolio called Active Workspace, an intuitive, highly visual, and personalized environment for instantly accessing intelligent 3D information and thereby greatly enhancing the value of PLM systems. Active Workspace is another important step towards realizing Siemens PLM Software’s High Definition PLM (HD-PLM) vision, which was established to help decision makers make better informed decisions more efficiently and with a higher level of confidence (see release).

Today, many companies have massive amounts of information generated throughout their product lifecycle processes, which currently lies dormant, often spread across many sites and several different unconnected databases. This information could potentially be used to enhance decision making. However, finding, understanding and acting on all of this information can be difficult, time consuming and ultimately expensive. Active Workspace, working in conjunction with other Siemens PLM Software’s technology, provides an efficient solution by bringing all of this information together in
CIMdata PLM Industry Summary

instantly available visual representations that enable comprehension and quality decision-making to drive innovation.

“All companies and individuals face the challenge of dealing with information overload due to the increasing speed and volume of data coming from multiple sources,” said Chuck Grindstaff, CEO, Siemens PLM Software. “Active Workspace helps companies manage this challenge and significantly enhances decision making by reducing complexity and intelligently presenting PLM information that is accessible for all users. Building on our HD-PLM vision, Active Workspace creates an intuitive and personalized 3D graphic interface that significantly enhances the ability of our PLM suite of offerings to deliver knowledge instantly to the right people, at the right place and in the right context to support rapid and intelligent decision making.”

Turning product complexity into a competitive advantage

As product complexity continues to increase, the PLM systems that support the design, development and manufacturing of these products continue to expand to handle more data, functions and users. Visualizing information is crucial to understanding this complexity, whether information is textual, a network diagram of related items, or a complex 3D product design. Active Workspace provides easy to use tools for visualizing and navigating information and, once the right information is found, easily saving or sharing it with others.

Active Workspace is highly scalable and can handle all types and sizes of PLM environments, from hundreds to millions of items of information, and from a massive collection of documents to complex 3D geometry. Active Workspace helps turn this complexity into a competitive advantage by using the built-in filtering capability to provide immediate results, enabling fast, high-performance visualization of the 3D data and combining it with relevant product information to proactively assist users in making good decisions.

Smart collaboration is an integral part of the system - assisting users in finding relevant team members who need to be involved in a given task or decision. Active Workspace simplifies the process of sharing the data needed to make a decision so it can be re-used in the future to leverage best practices for similar tasks.

About Active Workspace

Active Workspace is a personalized environment for accessing the entire PLM ecosystem, which provides all PLM users with the right information at the right time to make the right decisions. Active Workspace delivers high-performance search and visualization capabilities, simple yet powerful collaboration tools, and a groundbreaking user interface. Active Workspace delivers the multi-disciplinary decision support platform that PLM workers need to make smarter decisions and better products.

SimulationX 3.5 Released to the Market

30 March 2012

ITI has made the new version 3.5 of platform "SimulationX" available. The software introduces about one hundred new features that help to speed up the development process while making it more efficient. The new version comes with a bunch of new libraries for quick simulations of planar mechanisms or vibrational and energetic analyses of hybrid drives, for instance. The new Industrial Utilities Package
bundles common model elements and tools for industrial energy related applications. New as well is the Green Building Package that serves the simulation of energy efficient buildings and will be presented at the Hannover Messe for the first time.

Modeling multi-body systems with SimulationX has now become even easier through enhanced visualization and interactive manipulation. New as well is the way result windows are handled: output options and settings for properties, result variables and transformations have been completely revamped. In addition, new interfaces with MSC Nastran®, VehicleSim® or ETAS LABCAR, for instance, but also advanced COM functionalities guarantee an easy exchange of data within a closed tool chain.

Support for Brava Viewer for Microsoft SharePoint
3 April 2012

Cadac Organice, Microsoft Gold ISV Partner and developer of SharePoint-based solutions for Engineering Document Management & Control, supports the Brava viewer for Microsoft SharePoint. The Brava viewer offers enhanced functionality and capabilities for viewing, comparing and markup of documents and CAD drawings in Microsoft SharePoint.

Viewing, comparing and markup
Brava for Microsoft SharePoint is a trusted viewer that is being used by companies worldwide. It is developed by Informative Graphics Corporation (IGC) that has been adding value to SharePoint since its very first release. Over this time IGC has adapted and extended Brava's integration to be quite extensive in value. Brava supports knowledge workers in retrieving information from SharePoint by offering the possibility to view documents and CAD drawings without need for the original application. In addition the viewer supports review and approval processes with functionality for redlining, markup and annotation.

Cadac Organice 2010 build 3600
Cadac Organice has integrated Brava for Microsoft SharePoint in its latest build 3600. Brava for Microsoft SharePoint is a central server side solution. Besides enhanced viewing functionality and capabilities, the viewer offers high performance and is available to users working with documents and CAD drawings in SharePoint through Cadac Organice as well as through an internet browser. Build 3600 also includes general performance improvements and improvements in uploading and importing files. Users are for instance notified when filenames include unsupported characters by SharePoint, and offered the possibility to automatically replace them.

Cadac Organice 2010 build 3600 is available to customers from April 2012.

Synopsys' StarRC Extraction Solution Certified by UMC for 28-nm Designs
3 April 2012

Synopsys, Inc. announced that UMC has certified Synopsys' StarRC™ parasitic extraction solution for its latest 28-nanometer (nm) process technologies. The StarRC solution delivered silicon-validated accuracy on UMC's evaluation designs to meet the qualification criteria for its advanced 28-nm Poly
SiON and High K/Metal gate processes. The StarRC technology files are immediately available to UMC customers working with its 28-nm processes.

"UMC has continued to work with leading EDA companies such as Synopsys to make available to its customers high-quality solutions that pave the way to silicon success," said S. C. Chien, vice president of Customer Engineering & IP Development Design Support Divisions at UMC. "The qualification of Synopsys' proven StarRC parasitic extraction solution for UMC's 28-nanometer process technology strengthens the portfolio of resources available to our customers for 28-nanometer designs. Mutual customers can now take full advantage of our latest foundry processes and successfully bring their innovations to the marketplace."

StarRC is a key component of Synopsys' Galaxy™ Implementation Platform and the industry-leading parasitic extraction solution for system-on-chip (SoC), custom digital, analog/mixed-signal (AMS) and memory designs. StarRC's 28-nm features include modeling for key parasitic effects, including advanced retargeting effects, new via etch and coupling effects, area-dependent via resistance and capacitance, polynomial-based diffusion resistance, and enhanced layout-dependent device parasitic extraction. StarRC also offers other advanced capabilities for 28-nm designs, including unified Rapid3D technology for fast, high-accuracy 3D extraction, enhanced multicore performance and scalability, proprietary reduction capabilities and the smallest netlist for signoff of the largest SoC designs.

TDCI Releases BuyDesign 8 Software with New Mobility, User Productivity and Integration Capabilities

3 April 2012

TDCI, Inc., a leading provider of product configuration software, announced the release of BuyDesign 8, the newest version of TDCI’s Product Configurator and Guided Selling solution suite. BuyDesign 8 delivers new mobility and productivity capabilities that enable both partner channel and direct sales teams to configure, price and quote in more places, on more devices, faster, and more intuitively. It also enables companies to use BuyDesign with the latest versions of ERP systems from Microsoft, Infor and others, and with CAD systems from SolidWorks, PTC and Autodesk.

BuyDesign is a comprehensive solution developed to streamline sales, engineering and manufacturing processes for customized products. BuyDesign helps companies that manufacture products with a wide range of features, options and dimensions increase sales by becoming ‘easy to do business with.’ Using BuyDesign, companies are able to reduce order processing time, cost and errors.

With a theme of ‘Productivity Redefined”, key BuyDesign 8 features include:

**Mobility** – use the full BuyDesign experience on the go and in exciting new ways on iPad and other tablets and smart phones with Apple iOS, Windows Phone or Android mobile operating systems.

More Web browsers – use BuyDesign with the most popular browsers, including IE9, Chrome, Safari and Firefox.

**App framework** – add launch points to customized applets, web pages, documents, videos and other functions right from the same screen you use to access BuyDesign entities.

A **whole new way of working** – breeze through quoting and other tasks faster than ever without the need to ‘save’ information or navigate through several menus.
Expanded internationalization – present BuyDesign in multiple languages; integrate with international tax solutions and easily store addresses for anywhere in the world.

In addition, BuyDesign 8 includes many other enhancements to further improve user productivity and expand deployment flexibility.

“We are excited about BuyDesign 8 for multiple reasons,” said Mike Stelzl, Wausau Supply IT/Applications Manager. “We’ve already shown it to some of our dealers and they really like how it will further speed the quoting process. And the new mobility capabilities will make it even easier for our dealers to quote and order products when they are at customers’ homes or offices.”

“BuyDesign 8 is the result of extensive user input, as well as advances in technology and collaboration with partners,” said Dan DeMuth, TDCI President. “Besides offering significant acceleration of the quoting process, it opens up a lot of exciting new opportunities for where and how companies and their channel partners perform their selling activities.”

“With version 8 we are keeping BuyDesign on the cutting edge of technology while continuing to deliver proven and stable solutions,” added Dinesh Dhamija, TDCI Chief Strategy Officer and Senior Vice-President. “To further that cause, we have introduced HTML5 and CSS3/W3C standards compliance to enable the full BuyDesign experience in multiple UI form factors and browsers. We have also evolved the UI toward the “App” and “Tile” paradigms being set as the standards by Apple and Microsoft respectively. That may all sound pretty technical, but what it really does is make everything more flexible and easier for the user.”

BuyDesign 8 is available immediately for shipment to new and existing customers.

TotalCAE Portal and VCollab Make CAE Data Smaller, Portable, More Usable

2 April 2012

Visual Collaboration Technologies Inc. (VCTI) announced that it has partnered with TotalCAE, a leading provider of CAE and CFD products and consulting services, to distribute VCollab software as part of TotalCAE’s extensive CAE solutions portfolio. TotalCAE will also combine innovative VCollab Software into its TotalCAE Portal services to bring benefits such as smaller CAE file sizes and increased file portability to end users in automotive, oil and gas, and manufacturing industries. Total CAE will distribute VCollab in North America, Europe, and Asia.

TotalCAE gives customers a seamless workflow from solving to the output of significantly compressed and portable result files, an option that has until now been out of reach to industries using CAE software. CAE data files are known to be massive and difficult to move, share, access, and store. Cutting edge VCollab software addresses these issues and enables enterprise teams to collaboratively review CAE data and interact with it in 3D while maintaining file portability.

“We welcome TotalCAE to our partner network. TotalCAE’s responsiveness to customer demand for more portable and usable CAE data is exceptional,” said Prasad Mandava, CEO of Visual Collaboration Technologies Inc. “The TotalCAE Portal provides customers with very fast WEB submission to solve almost any CAE problem. The addition of VCollab to this already impressive portal gives customers an edge by shrinking CAE file sizes, deepening data review, and extending data access between analysts, designers, non-technical specialists, and all decision makers.”
“With VCollab added to the TotalCAE Portal, we can provide all CAE customers an excellent solution to shrink massive CAE simulation data into portable files that can be deeply examined as well as easily shared, visualized, and stored,” said Rodney Mach, President of TotalCAE. “With storage requirements for simulation increasing exponentially, better selection and compression of key data is crucial to the most effective CAE processes.”

About TotalCAE

TotalCAE offers solutions and services for the CAE/CFD market that enable engineers to get their jobs done faster and more efficiently. The company provides HPC cluster design services for CAE, Managed CAE IT support services, benchmarking, and virtual CAE engineering in the cloud. The TotalCAE Portal is the company’s flagship CAE-specific productivity solution for manufacturing enterprises. Visit: http://www.totalcae.com for more information.

Updated Plugins for Creo and Pro/ENGINEER with KeyShot Exporter

4 April 2012

Luxion, a leading developer of advanced 3D rendering and lighting technology and makers of KeyShot®, the first real time ray tracing and global illumination program for 3D rendering and animation, has released version 1.3 of the KeyShot plugins for both CreoTM and Pro/ENGINEER® 3D software packages.

These new plugins bring a whole new level of functionality to the workflow between Pro/ENGINEER, Creo and KeyShot. With this release users now have the ability to export a KeyShot .bip file without the need of having KeyShot installed. This complements the workflow through the entire design process allowing modelers to send a compact file format through the pipeline for rendering and animation.

The new functionality for .bip export is completely compatible with the updated 1.3 plugins (available here) and KeyShot 3.1 (available here).

“The new plugins provide designers and engineers a faster way to deliver models to one another.” said Thomas Teger, VP, Products and Strategy at Luxion. “With a one-button export of the KeyShot file directly from the Pro/ENGINEER or Creo interface, anyone can now output a KeyShot file, and that makes it a standard file format for any Pro/ENGINEER or CREO user. On top of that, the .bip file maintains the camera settings, assembly structure, part level appearance and the orientation of the model. It further speeds up the process and allows one to send files in the KeyShot format rather than having to share IP in form of actual geometry.”

Additional enhancements to the plugin include:

- Tessellation refinement
- Orientation of assembly upon import
- Use of part level appearances
- Optional use of assembly level appearances (Creo only)
- Ability to merge identical parts into one single material group
- Optional export of Pro/ENGINEER / Creo orientations
Automatically launch KeyShot and import assembly when installed.

Numerous bug fixes

The plugin is absolutely free and can be downloaded immediately from the KeyShot website. Pro/ENGINEER and Creo versions currently supported by the plugin are Pro/ENGINEER Wildfire 3-5, Creo/Elements Pro. Creo 1.0. KeyShot is available for PC and Mac and can import native Pro/ENGINEER and Creo data on either platform without the need of the plugin.

Vectorworks Cloud Services Provides Added Computing Power and Design Freedom

2 April 2012

Nemetschek Vectorworks, Inc. announced the launch of Vectorworks® Cloud Services, which will provide greater convenience, collaboration, and freedom for users to access their designs from any location, at any time. Vectorworks Cloud Services will be available exclusively for members of the company's software subscription program, Vectorworks Service Select.

This initial offering will allow users of Vectorworks software to access and share files and make design decisions from any location. Changes to users' Vectorworks files will be automatically synchronized to their private cloud storage, allowing them to browse, annotate and share their designs from web-enabled devices using the Vectorworks Nomad mobile application.

Vectorworks Cloud Services saves time by freeing up desktop computing power. Creating client presentations with desktop-design software often requires a significant amount of user investment to coordinate, monitor, and wait while resources consume the desktop CPU. Vectorworks Cloud Services provides a cloud-based workflow, shifting calculations needed to generate sections, elevations, renderings, and Building Information Modeling (BIM) data from the desktop to the cloud.

"The cloud offers important benefits in efficiency and collaboration to the design workflow, enhancing the value that Vectorworks products already offer on the desktop," said Sean Flaherty, CEO of Nemetschek Vectorworks. "Vectorworks Cloud Services will provide the freedom and flexibility designers need to successfully meet the challenges of working in today's mobile world. In particular, the ability to perform calculations in the cloud will be a significant advantage to our users."

Vectorworks Cloud Services is initially available as a free trial until April 30, 2012 to Vectorworks Service Select members in the U.S. and Canada, and will be available to customers in other countries where Vectorworks Service Select is offered later this year. To learn more, please visit http://www.vectorworks.net/cloudservices.

Vehicle Dynamics Software CarSim, TruckSim, and BikeSim Added to Altair's HyperWorks Partner Alliance

4 April 2012

Altair, developer of the HyperWorks computer-aided engineering software suite, announced the addition of Mechanical Simulation vehicle dynamics simulation tools to the array of applications available through the HyperWorks Partner Alliance (HWPA). CarSim, TruckSim, and BikeSim products from
Mechanical Simulation Corporation simulate the performance of cars, trucks, motorcycles, and specialty vehicles for vehicle dynamics, handling, vehicle control development, and test engineering applications.

Altair HyperWorks customers can access VehicleSim through the HWPA, a suite of third-party applications from HyperWorks partners that can be employed with the same units used to invoke HyperWorks software. The flexibility of these HyperWorks Units empowers users to deploy the largest and most complete suite of CAE applications available at no incremental cost and with no long-term commitment.

“Mechanical Simulation is pleased to announce our new partnership with Altair and the opportunity this will create to enhance relationships with existing customers and create new users throughout the industry,” said Terry Rhoades, President of Mechanical Simulation. “Access to our software tools through Altair’s HWPA will create new opportunities for CarSim, TruckSim, and BikeSim to be combined with other CAE tools, offering users the opportunity to create innovative tool chains of exceptional capability and value.”

CarSim, TruckSim, and BikeSim use the VehicleSim architecture to provide accurate and realistic predictions of vehicle dynamics in a form that can be easily used by engineers, technical and marketing staffs. CarSim simulates the acceleration, braking, handling and ride of cars and car-trailer combinations over any road surface or terrain and can be applied to passenger cars, racecars, light trucks, and utility vehicles. This software is used to design, develop, test, and plan vehicle programs, and empowers engineers to make better decisions involving vehicle dynamics and prove initial concepts, select components, and perform advanced analysis of existing vehicles.

TruckSim operates just like CarSim, but with specific alterations to allow for simulation of medium to heavy trucks and buses, which use a different steering system than cars. TruckSim also accounts for dual tires, multiple axle configurations and a wide range of tractor-trailer combinations.

BikeSim is specifically designed to simulate the behavior of motorcycles and scooters for engineers who do not have the months or years necessary to learn to use older simulation methods. BikeSim analyzes the response to the rider's inputs — steering torque, braking, shifting, throttle, body lean, and lateral shifting of the body mass.

“The addition of Mechanical Simulations’ industry leading vehicle dynamics software satisfies a great demand among our vehicle manufacturing customers,” said Antoine Poussier, vice president of Global Partner Programs at Altair. “The ability to access CarSim, TruckSim, and BikeSim along with the entire HyperWorks and HWPA suites within one licensing platform is a truly unique value proposition.”

The HWPA strives to provide the most comprehensive offering of software applications across multiple relevant domains related to computer-aided engineering. The addition of CarSim, TruckSim, and BikeSim further enhances the flexibility of the HyperWorks Units and the overall value of Altair HyperWorks.

Zuken Joins ODB++ Solutions Alliance

3 April 2012

Zuken has extended its OpenDoor agreement with Mentor Graphics by participating as a partner in the recently-formed ODB++ Solutions Alliance.
The ODB++ Solutions Alliance provides a focal point for further technological development and adoption of the data format and comprises both users and solutions-development partners. ODB++ is a single-data structure for transferring PCB designs into fabrication, assembly and test.

Zuken will offer support for the ODB++ format in its **CR-5000** and **CR-8000** PCB design suites.

For more information visit [www.odb-sa.com/partners](http://www.odb-sa.com/partners)