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Acquisitions

Autodesk Acquires Vela Systems

8 June 2012

Autodesk, Inc. announced the acquisition of Vela Systems, a provider of cloud and mobile field management software for the construction industry. The addition of Vela Systems field management products to Autodesk's growing portfolio of cloud and mobile products is helping to extend the value of Building Information Modeling (BIM) and project data to construction customers in the field. Terms of the transaction were not disclosed.

"BIM has tremendous value in the planning and design aspects of construction projects, but if you can't get that rich data into the field, at the point of construction, you are leaving out the critical 'last 100 yards' in the process. Integrating Vela Systems and its cloud and mobile products with the Autodesk BIM portfolio transforms the business of construction, delivering valuable information to job sites anywhere in the world," said Amar Hanspal, Senior Vice President, Information Modeling and Platform Products Group.

Based in Burlington, Massachusetts, Vela Systems extends the power of BIM with cloud and mobile technologies that enable project and company-wide programs for streamlined management of quality, safety, commissioning and field construction. The powerful reporting tools provide immediate visibility into issues in the field, allowing for proactive management and resolution, rather than time consuming and expensive overruns caused by a reactive approach. Vela Systems software and services are integrated with current Autodesk integrated project management software including [Autodesk Navisworks](#), the architecture, engineering and construction (AEC) industry's standard comprehensive set of integration, analysis, and communication tools for project review.

"Vela Systems has been a longstanding partner of Autodesk, and has been leading the charge in the field. The confluence of cloud computing, iOS mobile devices like the iPad and BIM has enabled a new way to deliver and manage construction projects of all types. With the acquisition, we will accelerate this revolution in field management through a broader solution and greatly enhanced distribution," said Josh Kanner, co-founder, of Vela Systems.

Combined with the Autodesk BIM portfolio, the Vela Systems software has already helped contractors, owners, architects and engineers accelerate project schedules, reduce project risk, and improve the flow of information, including key data and project photos, between project stakeholders. Autodesk users can now reduce reliance on manual processes to track progress, document work activities and resolve issues. With the Vela Systems integration, users can also visualize the as-designed building in the field to improve quality and fidelity to design intent; streamline reviews; save money with more efficient workflows by linking physical tasks to a virtual model; and capture critical data on materials, systems, and equipment.

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CIMdata News

CIMdata Publishes “Executing Effectively from Design to Manufacturing”

5 June 2012

CIMdata, the leading global Product Lifecycle Management (PLM) consulting and research firm announces a new paper about providing early support for manufacturing through enhanced product design capabilities.

From a business point of view, organizational divide between product design and manufacturing is a major contributor to late product design change and the overall cost of products. Manufacturing and product engineering are often physically separated, which places barriers to communication; both person-to-person as well as for data flow.

Over the years SolidWorks has developed significant support for transitioning products from design to manufacturing. Today, many new capabilities have been built into SolidWorks to support the creation of information that is necessary when establishing efficient manufacturing processes and assuring that products can be produced profitably. While SolidWorks continues to provide geometric check functionality for plastic parts, cast parts, and sheet metal parts—it now features a new costing tool that provides automated cost estimation capabilities and SolidWorks DFMXpress, a tool that checks designs for manufacturability. In addition, many SolidWorks Gold Partners have embedded their own CAM products directly inside SolidWorks’ 3D CAD environment and SolidWorks’ new SolidWorks Plastics product provides plastic part designers and mold makers with detailed insight into the manufacturability of their plastic designs via plastic injection molding simulations.

This paper describes how SolidWorks has expanded their CAD solution offering to better support design for manufacturing concepts. It provides both CIMdata’s evaluation of SolidWorks solutions such as the SolidWorks Costing and SolidWorks DFMXpress modules, but also valuable insights from companies who have used these products to improve their overall product development and manufacturing process.

“Executing Effectively from Design to Manufacturing” is available to be freely downloaded from CIMdata’s [Publications web page](#).

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 PLM Industry Summary

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 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.

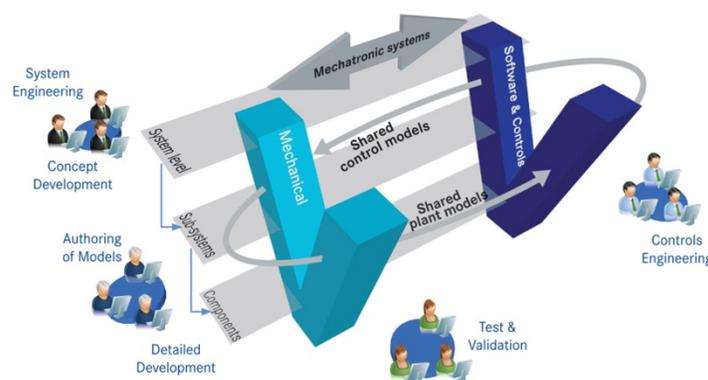
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LMS 2012 European Vehicle Conference: CIMdata Commentary

5 June 2012

LMS International held its 2012 European Vehicle Conference on April 18-19 in Munich, Germany. LMS is an engineering services and software company, headquartered in Leuven, Belgium. They are a partner for companies in the automotive, aerospace and other advanced manufacturing industries. They offer a combination of 1D and 3D virtual simulation software, testing systems, and engineering services.

This LMS event is a technical conference, aimed at the vehicle engineering community, particularly LMS' customers. Nearly 300 attendees represented 115 companies, and 44 papers were presented. The theme of the conference was "frontloading of vehicle systems engineering as a way to deliver superior brand performance." Industrial keynote speakers included Dr. Guglielmo Caviasso (Fiat), Dr. Christof Weber (Daimler) and Mr. Ryusaka Sawada (Toyota).



**Model-Based Systems Engineering Process—
Supporting Mechatronics Devices and Control Systems
(Courtesy of LMS)**

LMS is a leading proponent of Model-Based Systems Engineering (MBSE), and they are possibly unique in that they stress the importance of including physics-based models of mechanical systems in their analyses. For mechatronics systems, they propose the double-Vee approach illustrated above.

CIMdata PLM Industry Summary

Mechanical design and software and controls each have their development processes that are coupled by shared models to assess total system performance. This enables model-in-the-loop, software-in-the-loop, and hardware-in-the-loop capabilities at appropriate stages of product development. According to Dr. Urbain Vandeurzan, LMS' Chairman and CEO, this is "a paradigm shift whereby the mechanics, electronics and software in a new design will simultaneously be optimized as an integrated mechatronics system."

The conference featured 13 papers in three MBSE tracks. These covered a wide range of vehicle subsystems, including:

- Transmissions and drivelines
- Cooling
- Turbocharged and (electric) supercharged combustion
- Fuel
- Exhaust and catalysis (chemical)
- Controls
- Energy balance and overall efficiency
- Hydraulics and accessories

Imagine.Lab AMESim is the LMS platform for multi-physics system modeling. It provides comprehensive component libraries for vehicle systems, and interfaces to MATLAB/Simulink modeling environments. The sophistication of the systems models described at the conference was truly impressive. Even so, the models appear to be being used mostly for systems integration and optimization, activities on the right side of the Systems Engineering Vee.

MBSE should, however, be applied across the entire product life cycle, and can have a major impact on the left side of the Vee as well as the right side. Here, the need is for a collaborative environment to develop product requirements and explore product options and concepts across engineering disciplines and functional domains. Imagine.Lab SysDM enables this by providing shared, collaborative, data management with configuration and version control for AMESim and other system simulation tools and data.

Other tracks at the Conference covered Powertrain NVH & Acoustics, Vehicle NVH & Acoustics, and Driving Dynamics & Durability. LMS provides software and hardware for test and measurement, as well as a comprehensive range of 3D mechanical simulation tools. They are a proponent of "hybrid" engineering, where test and simulation are used together for maximum impact on product development. All of these areas were well covered in the conference.

About CIMdata

CIMdata, an 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

CIMdata PLM Industry Summary

Product Lifecycle Management (PLM). CIMdata provides world-class knowledge, expertise, and best-practice methods on PLM. CIMdata also offers research, subscription services, publications, and education through international conferences. 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.

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Company News

Assemble Systems and TotalCAD Systems Partner to Launch BIM Software Integration Platform

5 June 2012

Roger Padamada, President for Houston-based Autodesk reseller, and Clint Pargmann, President of Assemble Systems, a Houston-based BIM software integration company, signed an agreement this week engaging their two companies. TotalCAD Systems and Assemble Systems will work together to provide Houston-based architecture, engineering, and construction firms access to Assemble, a leading building information modeling software integration platform. TotalCAD Systems will begin selling Assemble this week.

Pargmann comments "by integrating Autodesk products currently on the market, Assemble enables these products to become more effective. We look forward to working with TotalCAD Systems to accelerate the adoption of our platform among the AEC industry in Houston."

Dat Lien, who manages the Architecture, Engineering and Construction Solutions division at TotalCAD Systems, looks forward to being able to offer Assemble as part of the BIM product line. "Assemble is an exciting new tool for integrating design and construction software," he says. "It brings much-needed integration and transparency for AEC teams working in the BIM environment with Autodesk Revit and Navisworks."

About Assemble Systems

Assemble Systems is a building information modeling software integration company. Assemble is a BIM software integration platform that brings together best-of-class BIM products to enable interoperability, visualization and change management. Based in Houston, Texas, the Assemble Systems team includes technology experts and experienced architecture, engineering, and construction industry professionals who are addressing BIM interoperability for design, construction and operation. Visit www.assembleystems.com for more information.

About Total CAD Systems

Total CAD Systems, an Autodesk Premier Solutions Provider, was founded by experienced industry professionals who are passionately committed to providing the highest quality customer service. Their dedicated staff is driven on the founder's principles of Integrity, Professionalism and Dependability.

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Total CAD uniquely leverages more than 200 years of collective industry knowledge to deliver the most friendly, responsive and thorough support to clients. Visit www.tcadsys.com for more information.

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Bentley Systems Makes \$300,000 Commitment to Habitat for Humanity of Chester County for Coatesville, Pa., Housing Project

7 June 2012

Habitat for Humanity of Chester County (HfHCC) announced today that Bentley Systems, Incorporated, has committed \$300,000 over six years to the Habitat for Humanity of Chester County program. The money will be used to support Cambria Homes, a \$4 million, 82 single-family home community being developed by HfHCC in Coatesville, Pa. The donation is being made through Pennsylvania's Neighborhood Partnership Program (NPP). Under NPP, business firms can receive a sizable state tax credit for making a substantial and long-term commitment of at least five years in support of a neighborhood organization that's undertaking a project for affordable housing, community economic development, community services, crime prevention, education, job training, or neighborhood assistance.

“The need for reasonably priced homes in Coatesville is immediate and crucial to the well-being of families in the area living in unstable and substandard housing, as well as to the long-term economic growth of the community at large,” said Anne-Marie Walters, Bentley global marketing director and member of the HfHCC board of directors. “Through Cambria Homes, the good people at HfHCC, along with the organization's many volunteers, are empowering hard-working Coatesville families to acquire, often for the first time, new homes of their own. We are gratified that Pennsylvania's highly innovative NPP program enables us to participate in this worthy endeavor that aligns with one of our company's underlying goals – sustaining society.”

“We are thrilled to be partnering with Bentley Systems to help build affordable housing for families in need,” said Chip Huston, executive director of Habitat for Humanity of Chester County. “The neighborhood we are currently working on in the city of Coatesville will yield 45 homes – giving 45 families the opportunity to be homeowners in a community in which their families can thrive. Bentley Systems is making the dream of homeownership a reality for three of those families.”

In 2004, HfHCC partnered with Community Builders, Inc., a non-profit development corporation, to begin building Cambria Homes. In 2009, HfHCC purchased from Community Builders what remained of the 12.5-acre site to build the remaining 45 homes in this development over the next 10 years. Constructed on the grounds of the former Oak Street public housing project, the new community is designed to address and rectify the negative impact of an area dominated for more than 30 years by a crumbling public housing complex.

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The site has now been transformed into a vibrant neighborhood of tree-lined streets and families who take pride in home ownership and contribute positively to society. In addition to making a financial commitment, the new home owners are required to invest sweat equity by participating in the construction process. This adds to their sense of accomplishment and gives them further incentive to leverage this new infrastructure for future generations. Adding to the sustainability of the neighborhood is the availability of public transportation, which enables residents to commute to employment opportunities east and west of the city, including Philadelphia.

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BobCAD-CAM Software Sponsors Massachusetts Highschool Industrial Engineering Program

6 June 2012

BobCAD-CAM has sponsored Acton-Boxborough Regional High school with \$53,000 in CAD/CAM software and supplied them with the technology for their students to excel in their labs. The Acton-Boxborough Regional High School in Acton, Massachusetts is taking education seriously when it comes to the future of engineering and manufacturing. Offering students such programs as Architectural Engineering, Computer Aided Design and Manufacturing software, woodworking and CNC Routing was the key in gaining support from CNC programming technology pioneer BobCAD-CAM and their new [Manufacturers of The Future](#) program for schools that are literally creating our future industry work force.

Ralph Arabian is the teacher at the forefront of these programs at the school and was quoted by saying, "Students understand and experience computer integration and its vital role to today's trade. In addition, using computer software, students design & produce projects by using a state of the art robotic Torchmate CNC router and using BobCAD-CAM as the core CAD/CAM software along with the bobART add-on software. Further study of these courses are for students who wish to develop expertise in the field of either mechanical/architectural design or carpentry, through guided practice and the completion of challenging projects. Course objectives are tailored to meet the interests and career aspirations of the student."

Kevin Hughes, the Educational Director at BobCAD-CAM Software also commented, "It's great to work with Mr. Arabian on supporting the schools program for their Engineering and Machining type classes."

The curriculum focuses on each area of study, critical thinking and problem solving skills are stressed in addition to the development of good work habits. The use of tools and materials to solve problems will result in new knowledge and the acquisition of lifelong skills. Students experience and integrate concepts of basic math, science, physics and geometry, ultimately having an understanding of these fundamental concepts by designing, sketching, creating & building prototypes and finished projects. In addition, all courses are designed to enhance coverage of traditional industry standards and techniques with emphasis on best practices, using new and updated state of the art equipment. As a result, students understand and are introduced to "real world" experiences, including: teamwork, group projects and advanced problem solving techniques not to mention mathematical concepts, scientific method &

Engineering Design Process.

The BobCAD-CAM Manufacturers of The Future program is designed to support schools at all levels that teach Design and Manufacturing which also includes CNC machining. Schools can apply for sponsorship and receive grants through BobCAD-CAM for software technology and even training. Schools that need assistance in assembling curriculums can also receive aid through contacting the company. Part of the Manufacturers of The Future programs includes the “Work Ready” stage where the student can acquire the same software they were trained on to enter the work force with the BobCAD-CAM software at reduced costs to them. For more information on the BobCAD-CAM Manufacturers of The Future Program contact the Educational Director Kevin Hughes at 866-408-3226. You can also visit BobCAD-CAM online at <http://www.bobcad.com>.

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Cadence Collaborates on 3D-IC Design Infrastructure with TSMC

4 June 2012

Cadence Design Systems, Inc. today announced its collaboration with Taiwan Semiconductor Manufacturing Company (TSMC) on 3D-IC design infrastructure development.

3D-ICs require co-design, analysis and verification of heterogeneous chips and silicon carriers. Coming from multiple disciplines and product areas, TSMC and Cadence teams worked together to create and integrate features to support this new type of design, culminating in the test-chip tapeout of TSMC’s first heterogeneous CoWoS (Chip-on-Wafer-on-Substrate) vehicle.

[Cadence 3D-IC technology](#) enables multi-chip co-design between digital, custom and package environments incorporating through-silicon vias (TSVs) on both chips and silicon carriers, and supports micro-bump alignment, placement, routing and design for test. It includes key 3D-IC design IP, such as a Wide IO controller and PHY to support Wide IO memories. Test modules were created using the Cadence Encounter RTL-to-GDSII flow, Virtuoso custom/analog flow, and Allegro system-in-package solutions.

“In 2012 3D-IC became a viable option for real-world chip design,” said John Murphy, group director, Strategic Alliances at Cadence. “For 10 years, Cadence has invested in SiP (System in Package) and 3D-IC design capabilities. Now we can share this knowledge with designers to bring this versatile technology to market.”

Cadence 3D-IC technology helps enable device designs that will be incorporated into TSMC’s recently introduced CoWoS process. CoWoS is an integrated process technology that bonds multiple chips in a single device to reduce power, improve system performance and reduce form factor.

“Big leaps in electronic design don’t happen without strong collaboration, and our partnership with Cadence in CoWoS design is a good example,” said Suk Lee, TSMC senior director, Design Infrastructure Marketing Division. “For 3D-IC design ecosystem readiness, Cadence played an

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important role in the development of design technology and the necessary IP.”

Learn about 3D-IC Technology at DAC 2012 in San Francisco

Cadence and TSMC will offer a joint tutorial on Monday, June 4 at DAC describing the practical approaches to 3D-IC, TSV and Wide IO. The companies will share the experiences gained in the design, manufacturing, test and assembly of 3D-IC CoWoS chips.

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CadFaster|Collaborate™ Awarded Best of Show Mobile App for Architects at the American Institute of Architects (AIA) National Convention

6 June 2012

Following CadFaster's product demonstrations at The American Institute of Architects (AIA) 2012 National Convention and Design Exhibition in Washington D.C., CadFaster|Collaborate(TM) was awarded Best of Show Mobile App for Architects by Architosh, the leading Internet magazine dedicated to Mac & iOS CAD and 3D professionals and students worldwide.

As a plug-in for design platform software, CadFaster|Collaborate is a cloud-based collaboration tool that lets users effortlessly distribute 3D CAD models and Building Information Modeling (BIM) designs for instant review. This easy-to-use, high-performance product uniquely combines portability with speed, making it ideal for geographically dispersed design and engineering teams.

"CADFaster is now available for a native Mac CAD/BIM application with its latest CADFaster for Vectorworks," said Anthony Frausto-Robledo, AIA, LEED AP, "but the company deserves kudos for its overall implementation with bringing real-time collaboration to the mobile iOS space and its utilization of cloud computing."

With the use of CadFaster|Collaborate(TM), Architecture, Engineering and Construction (AEC) firms have no need for additional software installations or high-end workstations to share their models. Models are distributed as Windows executables, or for ultimate portability, can even be shared on an iPad(R) with the CadFaster app.

"We are very honored to receive this special recognition," said Raimo Kuismin, chairman, CadFaster. "It is also very gratifying to see that our customers can truly collaborate on their own terms and easily share native design files with their non-CAD collaborators, critical decision makers, and other important stakeholders."

CadFaster|Collaborate can be easily purchased and downloaded through two authorized high quality resellers -- Novedge.com (<http://bit.ly/frCQWP>) in the U.S., from Cadventure (<http://tinyurl.com/7nng94s>) in the UK or directly from CadFaster's online store (www.cadfaster.com) for European customers. Vectorworks add-in is sold exclusively by Nemetschek Vectorworks

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at https://secure.vectorworks.net/estore/third_party .

About CadFaster

CadFaster provides its customers with proprietary and innovative software products that enable an ultra-fast 3D collaboration experience in professional 3D applications such as CAD. Based in Oulu, Finland, CadFaster was founded by a team of highly skilled software professionals. The technology development of the company's newest product, CadFaster|Collaborate, began in 2009. For more information, please visit <http://www.cadfaster.com/> , join CadFaster's Facebook page or follow the company on Twitter @CadFaster. Email any inquiries to sales@cadfaster.com

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Cadgroup Australia and CADPRO Systems Join Forces to Increase the Level of Support for Their Autodesk Customers in Australia and New Zealand

5 June 2012

Cadgroup, a Platinum Autodesk reseller in Australia, today announced that it has extended a strategic affiliation with CADPRO Systems in New Zealand. The association is an effort by both companies to deliver more personalised support and training to their customers in each other's region.

"It is fundamental to us that our customers receive the best possible service for their investment in Autodesk software. We wanted to deliver more personalised support to our customers in New Zealand and CADPRO Systems was an obvious choice, largely because of their strong knowledge base and the level of service they provide their customers" John Ayre Managing Director, Cadgroup.

Earlier this year Cadgroup Australia was awarded the highest Autodesk partner status, "Platinum". The status is awarded to the resellers who deliver the highest level of service to their customers. The award recognises Cadgroup's efforts in moving above and beyond customer expectations.

"The Platinum Status, recognises our commitment to our customers in delivering the best possible services, and we are extremely happy we have this opportunity to join forces with CADPRO Systems to stretch our capability to always deliver the best possible service to our customers across the Tasman" John Ayre Managing Director, Cadgroup.

CADPRO Systems is New Zealand's leading supplier of professional Computer Aided Design technology and a Gold Autodesk partner specialising in Digital Prototyping solutions for manufacturers and Building Information Modelling (BIM) technology for architects, engineers, contractors, and owner/operators.

"As New Zealand Companies are expanding more into Australia, CADPRO Systems needs to ensure that the support and service currently offered in NZ is also available in Australia and to the same level currently provided. Partnering with Cadgroup Australia provides that level of excellence. We are

pleased to now be able to offer this to our customers."

The affiliation will focus on supporting all Autodesk software across the board servicing key industries which include Architecture, Building, Construction, Manufacturing, Mining, Process Plant Design and Media & Entertainment.

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CAIPros to Use Geomagic for 3D CAI, Metrology Automation

1 June 2012

Geomagic today announced a strategic partnership with CAIPros - an independent professional service focused on providing Python scripting for automation of precision 3D Computer Aided Inspection (CAI) and metrology processes using Geomagic products.

The service is among a growing ecosystem of customers and world-class experts who are leveraging the powerful Geomagic Python Scripting Environment (GPSE) available with Geomagic software to increase the throughput speed and automate CAI processes in manufacturing environments.

The evolution of faster, exceptionally accurate and more comprehensive non-contact 3D scan data collection tools, coupled with recent innovations in inspection data processing technologies, has made possible a phenomenal advance in methods to collect and analyze measurement information in manufacturing, resulting in dramatic time reduction and seamless scan-through-results integration. Geomagic products are poised to deliver those substantial benefits to manufacturers worldwide.

CAIPros is the first to deliver custom process automation and integration services for manufacturers looking to use Geomagic Qualify to achieve faster returns on investment in their inspection processes. Examples of how the powerful automation scripting can be used include:

- Robotic scanning, inspection and automated reporting of results
- Automated batch comparisons of first article or production parts inspection data with original design digital product definition
- Dynamic interrogation of 3D scans with automated reporting into Excel spreadsheets, 3D PDFs, and/or directly into enterprise databases
- Inspection results integration into proprietary analysis tools and/or Statistical Process Control (SPC) systems
- Dramatically improved inspection processing speeds compared to manual operations.

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.

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"We are very excited to welcome CAIPros as the first provider in our 'Automation Ecosystem'," commented Steven Perkins, Director of Services, Geomagic. "Customers have unique needs and requirements in order to fully realize the power of automated inspection. Geomagic Python Scripting is providing the tools to meet those unique needs, and CAIPros delivers the expertise to implement the solutions needed to realize the advantages offered."

Manufacturers interested in finding out more about CAI process automation with CAIPros can visit: www.caipros.com/.

About Geomagic

Geomagic is a leading provider of 3D software for creating digital models of physical objects. Professionals involved in the design, reverse engineering and inspection of parts and products use Geomagic Studio, Geomagic Qualify and Geomagic Wrap to shorten time to market and improve quality. Geomagic software is also used in the dental and medical markets to create customized restorations, appliances, prosthetics and treatment plans that help improve patient care. Some of the leading companies around the globe using Geomagic software include Ford, Harley Davidson, Richard Childress Racing, Timberland, Fisher Price, Pratt & Whitney, NASA, Alcoa Howmet, Danaher and Invisalign. Geomagic is based in Research Triangle Park, NC, USA, with subsidiaries in Europe and Asia and partners worldwide.

For more information, visit www.geomagic.com.

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CGTech and ZOLLER Form Partnership to Simplify Tool Library Creation (VERICUT)

1 June 2012

CGTech, the developer of VERICUT CNC verification and simulation software, and ZOLLER have announced a partnership to better serve the customer base of the two companies.

"The ZOLLER vision system provides a direct link between the presetter and VERICUT," said CGTech President Jon Prun. "Our mutual customers benefit from this partnership by having the ability to scan accurate 3D models of tool assemblies which can be easily transferred to VERICUT in a variety of CAD formats."

VERICUT simulates CNC machining to identify errors in the NC programs (such as collisions, over-travel, gouges, etc.). Using VERICUT, manufacturers can verify the accuracy of the program before it is loaded on the machine, reducing or eliminating the need for the time-consuming manual prove-out process and minimizing material costs. VERICUT also improves machining efficiency by optimizing cutting speeds.

ZOLLER, founded in 1945 by Eberhard Zoller, is headquartered in Germany with worldwide subsidiaries, amongst others in the USA, China, India, Thailand and Japan. Today, the ZOLLER product portfolio covers all application areas of tool presetting, measuring, inspection and management. With the

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TMS Tool Management Solutions ZOLLER presents software that offers huge savings potentials through organizing the management of the manufacturing process on the basis of a central data base, which is used by all production units. Its modular design allows users to improve the production processes step-by-step.

“ZOLLER software is fully automatic and precise to the micron” said Alexander Zoller, President, ZOLLER Inc. “With a push of a button, the presetter will scan the tool as built on the shop floor, eliminating inaccuracy and the need to manually model tools. Creating a VERICUT tool library has never been easier.”

About CGTech

Headquartered in Irvine, California CGTech specializes in numerical control (NC/CNC) simulation, verification, optimization and analysis software technology for manufacturing. Since 1988 CGTech’s product, VERICUT® software, has become the industry standard for simulating CNC machining in order to detect errors, potential collisions or areas of inefficiency. With offices worldwide, VERICUT software is used by companies of all sizes, universities/trade schools, and government agencies. For more information, visit the CGTech website at www.cgtech.com.

About ZOLLER

ZOLLER is the global expert and market leader in the field of tool presetting, tool measurement tool inspection and tool management for more precision and productivity on the shop floor. More than 60 years of experience and the close cooperation between customers and partners enables ZOLLER to deliver high-end technology that helps companies to cope with the everyday manufacturing challenges. The family business in its third generation is committed to the highest quality standards for true precision and long product life. ZOLLER agents and business partners throughout the world guarantee customer proximity and dedicated service in local markets. For more information on ZOLLER, please visit www.zoller-usa.com.

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Computer Generated Solutions’ Fashion Software Applications Expert Paul F. Magel Says Having Interactive Community Drives Business, Product Success

5 June 2012

In an article titled, “The Fashion Solution Provider That Puts Customers First,” [CGS’s](#) Application Solutions Group President Paul F. Magel discusses the benefits of utilizing a community through technology and social networking and the positive effect it can have on a business. Magel highlights the importance of developing a shared community where customers can interact with one another, such as the one that CGS has established.

“We have worked hard to build a collaborative community at CGS and it’s one of the things we are most proud of,” said Magel. “Our customers are all on the same system, so what one person is doing can benefit somebody else. The overall goal is to allow customers to be self-sufficient, post questions to the

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community, and learn from other user's experiences which will in turn lower the cost of their use of our products."

The article also illustrates how companies must adapt to the ever-changing marketplace by incorporating features into their products that address the latest trends including globalization, business analytics and intelligence, personalization and mobilization, multi-channel distribution, EDI, and the move towards more cloud-based solutions.

"We're going to start seeing an evolutionary movement towards more cloud-based and SaaS-based ERP solutions," said Magel. "That coupled with the trend of utilizing technology and social networking to stay ahead of the curve are just some of the latest developments that continue to make the apparel industry so challenging. If organizations can adapt their products to address these trends, it's going to lead to measurable benefits for both the company and their customers, including increased profits and improved efficiency."

CGS works to take advantage of the networking movement by hosting their annual customer conference, "INSIGHT" which brings together customers, partners, and industry and product experts for a focused exchange of plans, tactics, strategies, solutions, and ideas. Additionally, they organize "Linked-Up" events where users can network and they spearhead active discussions on Facebook, Twitter, and Linked-In.

Paul F. Magel has been with CGS for over 15 years as an apparel and soft goods expert and is a regular speaker at many industry events. He has over 25 years of experience in the software industry.

This article was published in the June/July 2012 issue of Fashion Manuscript magazine. You can access the article directly by visiting <http://www.cgsinc.com/solutions/bluecherry>.

About CGS

For more than twenty-eight years, CGS has enabled global enterprises, regional companies and government agencies to drive breakthrough performance through technology. Headquartered in New York City, CGS employs over 4,500 professionals in 20 offices in North America, Latin America, Europe and Asia. With global delivery capabilities, expertise across leading platforms and deep experience in multiple industries, CGS has become the IT partner of choice for thousands of organizations worldwide. CGS delivers a wide array of proprietary and third-party business applications, technology, business services and business process outsourcing solutions, including customer care, technical support and corporate learning & training. For more information please visit <http://www.cgsinc.com>.

About BlueCherry

A fully integrated enterprise solution with the power to manage the entire concept-to-consumer product lifecycle, BlueCherry enables soft goods companies to streamline processes, gain visibility, reduce costs, increase productivity, and enhance competitiveness. Comprehensive BlueCherry capabilities include

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Enterprise Resource Planning (ERP), Product Lifecycle Management (PLM), Supply Chain Management (SCM), Shop Floor Control (SFC), Warehouse Management (WMS), E-Commerce, Salesforce Automation (SFA), Business Intelligence (BI), Electronic Data Interchange (EDI) and more.

Long considered the most functionally-complete ERP in the soft goods industry, the BlueCherry enterprise solution leverages the latest Microsoft® .NET, SQL Server® and Silverlight® technologies to deliver a superior user experience and the lowest total cost of ownership for CGS clients. Learn more at <http://www.bluecherry.com>.

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EMC Honored with Three TSIA STAR Awards for Global Services Excellence and Innovation

7 June 2012

EMC Corporation today announced it has been named the winner of three Spring 2012 [Technology Services Industry Association](#) (TSIA) STAR Awards for Professional Services Excellence in Enabling Customer Success, Innovation in Professional Services, and Excellence in Use of Metrics and Business Intelligence. The STAR Awards recognize technology companies that display exceptional leadership, innovation, and commitment in developing and implementing best practices. With 19 total STAR awards to date, EMC holds Elite Status within the TSIA Hall of Fame for Lifetime Achievement. The awards were announced in May at the [Technology Services World](#) (TSW) 2012 Best Practices conference in Santa Clara, California.

Award Highlights:

- **Professional Services Excellence in Enabling Customer Success**—For the second year in a row, EMC is the winner of this award, which recognizes EMC's Global Services commitment to the Total Customer Experience. This customer-centric model drives greater customer satisfaction and loyalty that continues to surpass industry benchmarks. These customer satisfaction metrics feed into a closed-loop process, which EMC uses to continually improve the Total Customer Experience.
- **Innovation in Professional Services**—This award recognizes EMC's continued investments in its patented EMC Dynamic Generator for Engagements (EDGE), an application leveraging EMC Documentum® enterprise content management solutions. EDGE provides standardization and automation for scoping engagements, generating comprehensive Statements of Work, Level of Efforts, and Basis of Estimates. Through EMC's Total Customer Experience initiative, EDGE has delivered significant improvements to customer satisfaction while providing increased business productivity.
- **Excellence in Use of Metrics and Business Intelligence**—Winning this award for the third consecutive year, EMC Customer Support Services' continued expansion of its data analytics program helps further its commitment to improving the customer's experience. Core metrics and measurements evaluate the service experience entirely from the customer's perspective across the service request lifecycle. The data is then used to support and drive critical business decisions and innovations that allow EMC to focus its efforts on areas of the business that have the greatest

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customer impact. EMC's commitments to data transparency and training, along with the strong executive support for the program, were recognized by TSIA as best practices.

Companies seeking the STAR Award undergo a rigorous evaluation process, with the winners selected by TSIA's service discipline advisory board members. Since its inception in 1990, the STAR Awards have become one of the highest honors in the technology services industry, acknowledging the contribution of companies of all sizes to the continual improvement of technology services delivery industry-wide. For information on the STAR Awards, go to www.tsia.com/awards_and_certifications/star_awards.html.

About TSIA

The Technology Services Industry Association (TSIA) is the world's leading organization dedicated to advancing the business of technology services. Technology services organizations large and small look to TSIA for world-class business frameworks, best practices based on real-world results, detailed performance benchmarking, exceptional peer networking opportunities, and high-profile certification and awards programs. TSIA corporate members represent the world's top technology companies as well as scores of innovative small and midsize businesses in four major markets: enterprise IT & telecom, consumer technology, healthcare & healthcare IT, and industrial equipment & technology. www.tsia.com.

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LMS Advances its Solutions for Systems Engineering in Partnership with French Industry Leaders

7 June 2012

LMS International today announces it has joined the French Research Project AGeSys (Atelier de Génie Système – Integrated System Engineering Platform). This project, with a 3 year budget of 19 MEuro, aims at creating an open generic platform supporting Architecture Driven Model-Based Systems Engineering of mechatronic systems and embedded software, covering all industrial domains and all design phases, from conception and requirements to implementation, system verification and validation. The project is being implemented in cooperation with leading end-users from the automotive industry (Continental, PSA Peugeot Citroen, Renault and Valeo), with major aerospace participants (Airbus, SAGEM DS, SNECMA and Thales), with railway manufacturers (Alstom Transport, ATOS and Thales), and in consortium with a select group of technology providers (ATOS, CEA, Esterel Technologies, Scaleo Chip and Scilab Enterprises).

In close cooperation with end-users, LMS International will orient its investments in the AGeSys project onto further extending LMS Imagine.Lab as open and tool-neutral simulation platform enabling Architecture Driven, Model-Based Collaborative Development of Mechatronic Systems. As part of this, the newly released Imagine.Lab System Synthesis application enables the frontloading of system modeling by focusing on system architecture construction and creating executable system configurations. These configurations are based on physical and control system models for components and subsystems that can originate from multiple model authoring applications, including Imagine.Lab

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AMESim and The MathWorks Simulink. Systems Synthesis also facilitates the integration of the system simulation process with complementary enterprise solutions for Systems Engineering, such as for requirements management. System Synthesis connects to Imagine.Lab SysDM, which is the information management environment in the Imagine.Lab platform, enabling collaborative mechatronic system simulation and related model life cycle management, including in connection with PLM solutions for system engineering.

“Renault has been working closely with LMS on advancing its solutions in Imagine.Lab AMESim for multi-physics system simulation”, comments Eric Landel, Expert Leader Numerical Modeling & Simulation at Renault. “We welcome LMS’ strategy to complement AMESim with SysDM and System Synthesis as it further optimizes the process for system engineers and architects to seamlessly work on conceptual design. This continuous design work applies from the creation of system architecture, to the configuration and finally the simulation of the related systems to assess global behavior and performance”.

“The implementation of enterprise solutions for Model-Based Systems Engineering is a top priority for our clients”, comments Dr. Vincent Braibant, LMS Director Simulation Strategies, “The AGeSys project provides a unique opportunity to further develop Imagine.Lab as an open platform for Architecture Driven, Model-Based Collaborative Mechatronic System Simulation, fully interoperable with the other solutions that our clients deploy to cover all steps for Systems Engineering”

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New Blanking and Flanging Simulation for TopSolid’Progress Thanks to Forming Technologies Inc.

6 June 2012

Missler Software and Forming Technologies Inc. (FTI) are pleased to announce that FTI will be the new Missler Software partner for blank shape development, stamping, and flanging simulation for its TopSolid’Progress software solution.

Top of the range stamping simulation

TopSolid’Progress provides all the required functions to help die designers compute sheet metal blanks, design the strip layout and dies far faster than with standard CAD software.

The implementation of FTI technology in TopSolid’Progress offers many improvements. Developed blank shapes are more accurate thanks to FTI’s Coupled Hybrid Inverse (CHI) solver, which provides a better simulation of the shift in the neutral axis. During strip layout design, FTI’s accurate representation of real world forming conditions in local flanging operations brings accuracy, reliability and productivity to the geometry development for each operation.

Thanks to the cooperation between FTI and Missler Software, TopSolid’Progress customers now have more comprehensive stamping tools at their disposal thereby enabling them to achieve higher

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performance and quality.

FTI is proud to partner with Missler Software on this project. According to Dan Marinac, Director of Business Development for FTI “We are pleased to work with Missler Software, a leading CAD/CAM developer. FTI offers TopSolid customers world class optimized blank development and flanging simulation giving them an essential advantage in today’s highly competitive progressive tooling industry.”

Dominique Laffret, Vice President of Strategic Relationships at Missler Software, goes on to say that “Our collaboration with FTI corresponds with our customer needs to reduce design times and improve the quality of their progressive tool design by using unstamping simulation. It is logical for Missler Software to work closely with FTI who is a leading simulation provider, to offer our customers the most modern and optimised tools on the market for progressive tool design. We expect the Return on Investment for our customers to be less than 6 months.”

About Missler Software

Missler Software is one of the leading global suppliers of CAD, CAM and ERP solutions with its product line TopSolid. Missler Software offers a uniquely integrated solution for the mechanical engineering industry (general mechanical design, special machinery, tooling, boilerwork ...) and for sheet metal and wood industries.

Thanks to its advanced technology and its fully integrated solution, Missler Software is experiencing rapid growth in the global CAD/CAM market. For further information contact info@topsolid.com or visit www.topsolid.com

About Forming Technology Incorporated (FTI)

Forming Technologies Incorporated is the world’s leading developer of computer aided engineering software for design and simulation of sheet metal components. For the past 23 years, FTI has provided OEMs and suppliers in the automotive, aerospace and appliance industries with innovative software and training solutions designed to reduce development time and material costs. FTI has trained over 12,000 engineers in Formability and Die Design and is considered the Best in Class around the world for their industry training programs. For information visit the company’s website (www.forming.com)

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PROLIM Corporation is a Member of Aras Partner Program

6 June 2012

Aras® today announced that PROLIM Corporation, a PLM systems integrator headquartered in Farmington Hills, Michigan with operations in Bangalore, India, is a member of the Aras Partner Program.

PROLIM is a full service PLM consulting firm providing end-to-end solutions from inception to

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implementation. For more than a decade PROLIM has been helping automotive, aerospace, high tech and industrial machinery companies throughout the world achieve their strategic PLM business objectives. For more information please visit <http://www.prolim.com>

“At PROLIM, we say we put the ‘life’ into product lifecycle by focusing on the voice of customer and using technology to address their biggest challenges,” said Prabhu Patil, CEO and President of PROLIM.

“We are pleased to have an experienced systems integrator such as PROLIM in the Aras Partner Program and Aras Community,” said Peter Schroer, President of Aras. “PROLIM has seen first-hand the limitations of legacy PLM systems and we appreciate that they recognize the advantages the Aras model brings to their business and to their customers.”

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Sescoi Appoints Two New Distributors in Mexico to Service the Expanding High Technology Sectors 6 June 2012

Sescoi has appointed two new distributors for its WorkNC CAD/CAM software in Mexico, [FHOMEX](#) – Manufactura Integrada, and [LEGG Ingenieria](#). Both companies aim to increase the sales and service levels for WorkNC within the country. SESCOI already counts many prestigious companies in Mexico amongst its clients including DaimlerChrysler Mexico, Ahresty Mexicana, Nemak S.A. and NPL-Ditemsa SA.

Sescoi has had a long history serving the North American market, recently celebrating 20 years of business in a series of five customer appreciation events. Gabriel Huitron of FHOMEX says, “WorkNC is highly respected within the automotive and aerospace industry and is used by leading OEMs and their supply chains throughout the world. The automotive parts industry in Mexico was worth around \$65 billion in 2010, so there is a big opportunity for improving productivity and cutting costs with the software.”

[WorkNC V21](#) includes advances which will be invaluable to manufacturers including high-speed calculation through parallel processing, and Global Finishing strategies which can complete the part in one continuous and fluid movement. José Luis Garcia of LEGG Ingenieria says, “We are very excited about offering WorkNC in Mexico. As well as the booming automotive market, we will be focusing on aerospace which has an anticipated growth rate of 20% year on year. The technology in the software will enable companies to reduce lead times, improve quality, and easily manufacture complex parts which meet the demanding standards set by the industry.”

Bruno Marko, President of SESCOI says, “We are delighted to welcome FHOMEX and LEGG Ingenieria to the WorkNC distribution network. They will be able to offer our customers even better local support and develop our business in the expanding high technology sectors in Mexico. The country has the advantages of being a low cost manufacturing base and being next door to the largest market for

passenger vehicles in the world. As regards the aerospace industry, the cluster of companies around Sonora is rapidly growing in importance. We anticipate that Mexico will quickly become a key market for us.”

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Terremark and EMC Align To Globally Accelerate Customers Journey to Cloud Computing

6 June 2012

Terremark, a Verizon Company, and EMC Corporation today announced a strategic initiative under which both companies will work to identify, build and offer tailored, cloud-based solutions built on Terremark's global service capabilities and EMC's best-of-breed, cloud-optimized information infrastructure technologies. Through this strategic initiative, EMC will provide the advanced technology infrastructure for Terremark's Enterprise Cloud Private Edition offering as well as public and hybrid deployments. Helping drive innovation, the companies will expand the range of options for IT organizations seeking to improve business agility, gain greater efficiency, and control costs as they accelerate their journey to cloud computing.

Additionally, Terremark has achieved Platinum-level in the EMC Velocity(TM) Service Provider Partner Program. The Velocity Service Provider Partner Program provides partner management resources and methodologies as well as sales tools and marketing campaign assets to help service providers more quickly and efficiently deploy differentiated cloud offerings built on EMC technology. The EMC Velocity Service Provider Partner Program works with service providers as they invest in EMC solutions with the singular goal of delivering compelling cloud services to the global IT market.

This collaborative initiative will leverage common channels through Terremark and EMC to bring to market a range of cloud-based options for IT organizations seeking to gain business agility and control through cloud computing.

About Terremark

Terremark, a Verizon Company, is a leader in transforming and securing enterprise-class IT on a global scale. A subsidiary of Verizon Communications Inc Terremark sets the standard for IT deployments with advanced infrastructure and managed service offerings that deliver the scale, security, and reliability necessary to meet the demanding requirements of enterprises and governments around the world. With a global network of data centers and a comprehensive portfolio of secure solutions, Terremark is helping enterprise and government executives realize the power and promise of the cloud today. For more information, visit www.terremark.com

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The Creation of Missler Software Inc. to Strengthen TopSolid in the USA

8 June 2012

Missler Software has recently created Missler Software Inc., its North American based National Sales and Support organization in Chicago. The new US based Missler Software subsidiary is a clear sign of Missler Software's desire to penetrate the North American market with a local presence.

The new organization has two primary goals:

- To secure and bolster customer investment in TopSolid by providing strong service and support through a local direct team.
- To accelerate market growth and greater business opportunity through a direct sales focus in the North American market place.

Don't miss Missler Software Inc. and TopSolid at Amerimold next week, booth 525.

More than 10 years presence in the USA

Missler Software has been present in the US market for more than 10 years and has operated through a network of local resellers. According to Arnaud de Boisboissel, Export Sales Director for Missler Software "We have been successful working with our network of resellers but we need a local presence to ensure optimum service for our customers and to provide us with the level of growth we can expect from the US market. TopSolid is the only CAD/CAM software on the global market to be completely rethought and rewritten both in terms of software technology and methodology. TopSolid 7, the latest generation of our CAD/CAM software, has known a huge success in the USA over the past 2 years and we now want to fully exploit its fantastic potential by setting up Missler Software Inc."

More than 30 years presence worldwide

As part of its 30 year heritage, Missler Software will continue to strongly invest in ongoing product research and development, to ensure that TopSolid will continue to have best in class technology, enriched product features and user friendly operation. TopSolid 7 brings revolutionary innovation to the market place by offering a seamlessly integrated CAD/CAM/PDM software solution to help customers maximize their business efficiency and productivity.

Mr. Eric Smith will be the National Sales and Marketing Manager for Missler Software Inc. Eric has 20 years of sales and marketing experience working for leading global technology organizations including CAD/CAM companies. Mr. Bill Genc will be the Missler Software Inc. Technical Director. Bill is a strong technology leader and innovator with his founding and leading the business of Clear Cut Solutions - the leading reseller for TopSolid products and services in North America over the past 10 years. Bill brings 18 years of machining and molding experience with over 15 years of CAD/CAM experience. For further information contact e.smith@topsolid.com and b.genc@topsolid.com

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Zuken Names Quadra Solutions as European CADSTAR Distributor of the Year

6 June 2012

Zuken is pleased to announce ongoing growth for its desktop PCB design solution [CADSTAR](#) in 2011-2012. Within Europe, the thriving UK market showed an increase in sales of almost 24% compared with last year, with Scandinavian sales growing by 8%.

CADSTAR growth in the UK has been spearheaded by reseller Quadra Solutions, which has been named European CADSTAR Distributor of the Year for the fourth time.

"Quadra Solutions has expanded its CADSTAR team resulting not only in strong sales, but also outstanding support for their existing customers and an increased profile within the industry," says Jeroen Leinders, CADSTAR worldwide sales manager.

Steve Dobson, Quadra Solutions managing director adds, "We have a consultative approach to working with our customers and a strong team, which has driven our success. CADSTAR is a proven solution, which we are proud to recommend, and we've had a positive customer response to the four new product add-ons released with the latest CADSTAR version."

With the tighter economic conditions of the last few years, Quadra Solutions has seen changes in customers' priorities, with increased efforts to get better value for their money and to maintain their competitive edge. "We've seen a steady migration to state-of-the-art, high speed technologies and interest in signal integrity and high speed routing tools," says Dobson.

Zuken draws on its considerable range of R&D expertise at its design centers in the UK, Germany and Japan, developing CADSTAR to address the challenges faced by today's and tomorrow's PCB designers. The next version of CADSTAR will be launched in Autumn 2012.

For more information visit www.zuken.com/cadstar

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Events News

AVEVA World Summit 2012 is launched

6 June 2012

AVEVA announced today the AVEVA World Summit 2012 being held on October 10th - 12th at the Marriott Rive Gauche Conference Center, Paris. For the first time, the Summit will be held as a single global event attracting customers from around the world and across the process plant, power and marine industries. The theme for this year's Summit is 'Defining the Future'.

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“The Summit agenda is designed specifically to provide senior management and decision makers within our customer community with an update on AVEVA’s strategic direction”, added Steve Tongish, Vice President - Marketing, AVEVA, “We will also be presenting some really exciting major new product announcements and providing insights into improving project and operational efficiencies. Our customers are at the heart of the Summit, making this an extremely popular event. We’re very pleased to have industry-leading companies share their project and business experience in such an open and collaborative forum.”

“Our strong theme ‘Defining the Future’, will be a great opportunity for delegates to learn from each other and for AVEVA to share its vision and listen to the needs of our customers”, added Richard Longdon, Chief Executive Officer, AVEVA. “In addition to an excellent conference agenda, AVEVA is celebrating our 45 year anniversary this year, which we will mark with a special reception. The AVEVA World Summit Paris is an important event in the 2012 calendar for the AVEVA World Community and through sharing and collaboration we will work together with our customers to define our common future.”

Past customer presentations have included Statoil, Technip, AMEC, Petrobras, Promon, SETAL, Hyundai Heavy Industries, Daewoo Shipbuilding & Marine Engineering and many more.

AVEVA has a long and proud tradition of hosting technical and business events for existing and future customers, both internationally and at a local level. Registration and Call for Presentations is now open on the AVEVA World Summit website at www.avevaworld.com.

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Applied Software Instructs on BIM Lifecycle at Revit Technology Conference North America 2012
6 June 2012

Applied Software announced today that it is partnering with Treligence, VIMtrek and Coast 2 Coast at Revit Technology Conference (RTC) North America 2012. Experts from these Gold Sponsor companies and others will show how the BIM lifecycle can be a productive, seamless process, from early planning to facility management. The conference will be held at Stone Mountain, Georgia, June 28-30, 2012.

At RTC North America 2012, a wide range of industry experts and technologists will address current modeling challenges and deliver advice, insights and best practices related to Revit/BIM. Presenters from Applied Software and their topics include:

Dennis Howell: "Advanced Design in Revit MEP Using Spaces"

Michael Massey: "A Whole New System in Revit MEP"

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Rabi Sidawi & Michael Zeeveld: "Custom Structural Design for Architects - Trusses, Canopies and More"

"RTC is quite simply all things Revit/BIM - no other event brings this level of innovations and subject matter experts together in a single location," said Mark Wagasky, VP of Sales for Applied Software. "Whether you're relatively new to Revit/BIM technology and practices, or are already entrenched and looking to improve productivity and performance, the presentations, labs and demonstrations at RTC can help drive your business forward."

For more information about the conference or to register, please visit <http://www.revitconference.com.au/rtc2012us/index.htm>

About Applied Software

Applied Software is one of the largest Autodesk resellers in the Southeastern United States. It is also one of the nation's leading providers of Building Information Modeling (BIM) services including BIM modeling, analysis, training, integration and mentoring, and provides Digital Prototyping solutions to manufacturers. Since its founding in 1982, Applied Software has helped more than 5,000 commercial, academic and government clients achieve high performance and growth. Applied Software's comprehensive array of solutions and services includes product updates, education and a dedicated staff of sales and services professionals. Applied Software is also a holder of a GSA BIM Services IDIQ contract to provide a full range of BIM services to the federal government. Applied Software was awarded Autodesk Platinum Reseller of the Year in 2011. Over the years, it has received numerous Platinum and other recognitions from Autodesk, including again being honored in 2012 as a Platinum Club award winner.

About Trelligence

Trelligence Affinity(TM) is a unique and comprehensive software solution for the worldwide AECO industry that offers a full suite of architectural programming, early design, and design-to-program validation analysis tools. Affinity delivers seamless interoperability with Autodesk Revit® Architecture, Google SketchUp(TM), ArchiCAD®, and IES VE-Gaia & VE-Navigator for LEED®, for an efficient and integrated project lifecycle that enables real-time design-to-program analysis and unprecedented early sustainability analysis. For more information and video demonstrations, visit www.trelligence.com

About VIMtrek

VIMtrek is a multi-component, rendering and collaboration Revit tool that converts Revit® files into fully immersive, freely navigable, 3D environments. It renders in minutes what previously took hours. With little training, the design team can create .vim files - beautiful, fully immersive, freely navigable, and highly realistic, data rich 3D environments. Once rendered, navigation functions are simple and users can freely navigate and note the rendering using the mouse and keypad outside of the Revit platform. More information is available at <http://vimtrek.com/>

About Coast 2 Coast

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Coast 2 Coast leverages years of experience and expertise to provide a comprehensive portfolio of services and products for clientele in the fields of architecture, engineering, construction and branding. Grounded in providing efficient, quality as-builts, branding surveys and a variety of field services, Coast 2 Coast is constantly evolving to meet the ever changing needs of our clients. From design support to 3D modeling and BIM consulting to construction management collaboration, Coast 2 Coast offers a wide range of additional services to accommodate clients' everyday needs. Always pushing the technological envelope, Coast 2 Coast offers a variety of advanced geospatial services such as 3D laser scanning, GPS and ground penetrating radar to complex or unusual projects. Coast 2 Coast touches an array of disciplines that serve the needs of today while standing ready to accommodate the visions of tomorrow. More information is available at <http://c2csurveys.com/>

About Revit Technology Conference

RTC is a unique, independent conference, covering all things Revit / BIM and the whole ecosystem that supports it and that goes to ensuring your success in the marketplace. No other event brings so many opportunities and benefits together in a single location. As a "by users, for users" event, RTC is the best place to get unvarnished advice from the people who use the technologies to drive their businesses, and the industry as a whole, forward. Business leaders, thought leaders, innovators and implementers; they are all here, and all ready to give away their secrets to aid in the quest for a better, smarter industry, and a stronger, more sustainable environment.

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CAMWorks Debuts at the Hardinge Machine Technology Show 2012

1 June 2012

Geometric Limited will demonstrate the latest version of its solid-based CNC programming solution, CAMWorks® 2012 at Hardinge Machine Technology Show (HMTS 2012), at Hardinge Headquarters, Elmira, New York from June 6-7, 2012.

The new functionalities of CAMWorks 2012 uses automatic feature recognition (AFR) and knowledge-based machining (KBM) to generate CNC programs automatically, thereby reducing programming time from hours to minutes or even seconds for the entire line of Hardinge CNC lathes and machining centers.

CAMWorks 2012 is the premier CAD/CAM solution for SolidWorks® and combines the ability to build full assemblies including Hardinge workholding, tooling, and rotary products with the power of machine simulation, to provide the ultimate Hardinge programming solution.

In addition to being able to error free post processors for most of Hardinge CNC lathes and machining centers, Geometric supplies various modules of CAMWorks specifically designed to provide the ideal CNC programming solution. It also provides custom software programming services and API (Application Programming Interface) development to help Hardinge customers fully automate the CNC programming of families of parts.

About Hardinge

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Hardinge is a global designer, manufacturer and distributor of machine tools, specializing in SUPERPRECISION[®] and precision CNC Lathes, high performance Machining Centers, high-end cylindrical and jig Grinding Machines, and technologically advanced Workholding & Rotary Products. The Company's products are distributed to most of the industrialized markets around the world with approximately 75% of its sales outside of North America. Hardinge has a very diverse international customer base and serves a wide variety of end-user markets. This customer base includes metalworking manufacturers which make parts for a variety Geometric Technologies (A division of Geometric Americas, Inc.) 15974 N. 77th Street # 103, Scottsdale, AZ 85260-1790 2 of industries, as well as a wide range of end users in the aerospace, agricultural, transportation, basic consumer goods, communications and electronics, construction, defense, energy, pharmaceutical and medical equipment, and recreation industries, among others. The Company has manufacturing operations in Switzerland, Taiwan, the United States, China and the United Kingdom. Hardinge's common stock trades on the NASDAQ Global Select Market under the symbol, 'HDNG.'

For more information, please visit <http://www.hardinge.com>.

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Dassault Systèmes Demonstrates 3DEXPERIENCE Platform for Aerospace at HP Workstation Conference

8 June 2012

WHO:

Phil Borchard, Vice President, Americas, Dassault Systèmes

Joe Baldwin, Sr. Aerospace Representative, SIMULIA, Dassault Systèmes

WHAT:

Dassault Systèmes Demonstrates 3DEXPERIENCE Platform for Aerospace & Defense

WHEN:

June 11, 2012

WHERE:

HP Workstation Cluster Conference for Aerospace

Centre Mont-Royal

Montreal, Quebec

Canada

WHY:

The aerospace and defense community has used Dassault Systèmes' 3D applications, Digital Mock-up and PLM business applications to design, create and produce innovative products for

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their customers for more than 25 years. The community is now adopting Dassault Systèmes' 3DEXPERIENCE platform, allowing customers to experience new innovations, solutions and products before they are completed and before they are built. With the 3DEXPERIENCE platform, aerospace and defense industry leaders can create new passenger experiences, safely breach new levels of complexity, extend their collaborative networks, be more flexible and lead the industry to a state of environmental sustainability.

During this event, Dassault Systèmes will present the latest experiences for CATIA and SIMULIA followed by an interactive session showcasing the solutions on HP workstations. Representatives will be available to further discuss how the company's applications can solve specific business needs.

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Delcam to Preview More Powerful Milling Options in PartMaker at IMTS

7 June 2012

Delcam's PartMaker Division will preview the 2013 version of PartMaker for programming CNC mills, lathes, wire EDM, turn-mill centres and Swiss-type lathes at IMTS 2012 in Chicago. Among a number of other enhancements, this latest version will feature a totally revamped surface-machining module offering PartMaker users some of the most powerful CAM machining algorithms on the market today for 3-, 4- and 5-axis simultaneous milling operations on a variety of machining platforms including CNC mills, turn-mill centres, bar-fed mills and Swiss-type lathes.

PartMaker will be demonstrated in the Delcam booth, E-3222, alongside the company's manufacturing software products including the PowerMILL, PowerSHAPE, FeatureCAM, ArtCAM and PowerINSPECT ranges. The Delcam booth will be the largest CAM booth at IMTS 2012, where the most comprehensive range of CAM products at the show will be on display.

PartMaker has pioneered the field of CAM software for multi-axis turn-mill centres and Swiss-type lathes. The software offers a vast array of robust post-processors and machine-simulation files for virtually every machine model ever built from such leading builders as Citizen, Mazak, Star, Mori-Seiki, Tsugami, Okuma, Tornos, Doosan, Hanwha, Nakamura and many, many others. PartMaker's technology for automating the programming of multi-axis turn-mill centres and Swiss-type lathes is protected by two U.S. patents.

PartMaker 2013 proves that power and ease of use don't have to be trade-offs users have to make with their CAM system," says PartMaker Inc. division President Hanan Fishman. "With a host of new, advanced milling strategies, PartMaker 2013 offers its users perhaps the most comprehensive and powerful CAM system on the market today for the full spectrum of production machining applications, all while maintaining the software's hallmark, industry-leading ease of use."

"PartMaker's new Advanced Surface Machining (ASM) functionality is based on the same technology

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and algorithms underpinning Delcam's PowerMILL, the leading CAM system on the market for the manufacture of complex shapes," claimed Mr. Fishman. "The new functionality offered in PartMaker's ASM answers the needs of our customers making increasingly more complicated parts, particularly for those in the medical-device and aerospace arenas. Also, machine tools are becoming more complex, with 5-axis simultaneous milling now even becoming available on a number of Swiss-type lathes."

ASM will replace PartMaker's Surface Machining Wizard (SMW) module for three-, four- and five-axis machining across the entire suite of PartMaker CAM applications, including PartMaker Mill, PartMaker Turn-Mill and PartMaker SwissCAM. For existing PartMaker users, the upgrade to ASM will be provided free of cost and the transition will be very easy to make. The benefits of the ASM module include faster tool path calculation, greater tool control and improved surface finish. Each strategy provides for full tool control enabling them to be used in either traditional 3-axis methods or up to 5-axis simultaneous machining methods, depending on a machine tool's capability.

PartMaker ASM will also include Delcam's new Vortex high-speed area-clearance strategy, for which Delcam has a patent pending. This has been developed by Delcam specifically to gain the maximum benefit from solid carbide tooling, in particular those designs that can give deeper cuts by using the full flute length as the cutting surface. It can be used for 2.5 and 3-axis roughing, 3+2-axis area clearance and rest machining.

The introduction of ASM extends PartMaker's 5-axis simultaneous milling functionality to CNC milling centres, making PartMaker an unsurpassed solution for production-oriented manufacturers to solve all of their CNC programming challenges, milling, turning, wire EDM, turn-mill and Swiss with one, unified programming platform.

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LMS Announces the 12th Annual LMS Americas Vehicle Conference

6 June 2012

LMS North America is pleased to announce the full agenda for the 2012 LMS Americas Vehicle Conference to be held at the Detroit Athletic Club in Detroit, Michigan on the 19th and 20th of June. This special conference will be filled with valuable content, excellent speakers, application presentations and celebration events as we commemorate the 20th Anniversary of LMS North America. They chose the Detroit Athletic Club to celebrate the heritage of the Automotive Industry in Detroit and to have a unique meeting place for this important conference.

The conference will host the following keynote speakers:

- Mr. Dan Nicholson, Executive Director, Drivability, Calibration & Validation – GM
- Dr. Mircea Gradu, Vice President Powertrain, Transmission & Driveline Engineering – Chrysler
- Dr. ir. Jan Leuridan – Chief Technical Officer – LMS International
- *Lunch Speaker: Mr. Nizar Trigui – Global Chief Engineer, Vehicle Energy Management –*

Ford

“We are greatly pleased that Mr. Dan Nicholson, Dr. Mircea Gradu and Mr. Nizar Trigui will present their visionary approach to the eco- and brand value engineering challenges in the automotive sector.” commented Marc Boonen, President – LMS Americas. “Our aim is to provide a meeting place for the automotive and ground vehicle community to exchange ideas and find ways to respond to the current challenges in the industry. We are excited for this event, our 12th Annual Conference in Michigan!”

The afternoon of the 19th will have two interactive management panel sessions with industry leaders discussing the following; 1. “The Strategic Importance of System Engineering & Controls Integration,” and 2. “The Changing Role of Testing & its Importance to Vehicle Development.” These interactive sessions offer valuable information for the audience in the beautiful main dining room of the Detroit Athletic Club.

The Second day of the conference will host leading engineering application cases presented by our customers and other experts on the use of LMS solutions and technology to solve their engineering needs. These presentations will be categorized into three tracks covering NVH Engineering, System Simulation and Controls Engineering providing a view on our customer’s engineering and technology successes. Customer applications include Chrysler, Audi, Mitsubishi, FAW, Changan Automotive, hofer powertrain, Toyota, Denso and others along with university and technology presentations.

The two-day conference is the ideal venue to discover real-life business applications and the latest technological evolutions presented by leading industry experts, and to experience test and mechatronic simulation solutions from LMS and its partners. The conference will bring together engineering executives, senior managers, and technical experts who will share strategies that illustrate how simulation supported by continuous progress in physical testing has helped them optimize their products and product development processes.

Learn more and register at <http://www.lmsintl.com/us-vehicle-conference>

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Lotus F1 Team to Headline at GTMA/Vero Motor Industry Event

6 June 2012

The GTMA and Vero Software are co-hosting a sheet metal event for the automotive industry, featuring advances in materials, along with a number of processes from right across the supply chain.

Demonstrations and information on display at the event, which is free to attend, will be provided by industry OEMs and Tier 1 leaders such as EDM and High Speed machinery manufacturer Agie Charmilles, press toolmaker Accura Geometric, and other vital links in the automotive supply chain.

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The keynote presentation is from British Formula One™ manufacturer Lotus F1 Team.

Vero and 3D digitising and verification specialists Central Scanning will be demonstrating how VISI's CAD technology can be used to manage complex springback or sheet metal deformation based on user-defined driven geometry, Finite Element Analysis, or laser scanning results.

Dutton Simulation are looking at costing and feasibility methods for upfront analysis, while high-strength steel producer SSAB's presentation on cold forming applications, will address the question: "is it hardness which governs die life length?"

Delegates will also see presentations on incremental sheet metal forming from the GTMA's Manufacturing Resource Centre; the essential role Vero's SMIRT software plays in the automotive die stamping industry; and from Accura Geometric.

A number of other industry players will have table top "hotdesk" exhibitions at the event, including Foregone Solutions, Indysoft, Blum Novotest, Roemheld, Mantech/Werth, Delcam, IMSM, Trac Measurement and Omega Plastics.

This special automotive event will be held at Agie Charmilles' technology centre in Coventry on July 5th where Agie will also be providing machinery demonstrations.

GTMA CEO Julia Moore says: "The GTMA works closely with its members in the supply chain linking our members with industry's OEMs and Tier 1 to support, inspire and share best practice up and down the supply chain. We've held a number of joint events with leading and innovative members like Vero, who make a major contribution to the industry."

To register for the event please email louise@gtma.co.uk

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PlanetPTC Live Keynote Speakers Put a Spotlight on Inspiration

5 June 2012

PlanetPTC Live--Inspiration is the spark that drives innovation and fuels technology breakthroughs that help transform great ideas into great products. This year's [PlanetPTC Live day 2 keynote](#) is comprised of industry thought leaders who will share their unique stories of how inspiration can impact the world around us.

"This year's PlanetPTC Live conference speakers remind us that we each have countless opportunities

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to inspire, innovate and make a difference,” notes Rob Gremley, executive vice president, Product Development and Corporate Marketing, PTC. “The conference brings PTC customers under one roof to showcase their work, network with peers, and inspire each other by sharing ideas, discussing challenges and offering solutions. PlanetPTC Live energizes me because it gives me the opportunity to witness the creativity of the most innovative manufacturers.”

Featured speakers include:

- **Fred Bellio, CIO, Global Product Organization and Corporate Center, Whirlpool Corporation**, explains the evolution of the “smart house” and discusses innovations in the appliance industry to promote energy efficiency and enable appliances to connect with the consumers. Mr. Bellio shares how Whirlpool uses information technology to enhance the customer experience, improve quality and increase the efficiency of its appliances,
- **Steven D. Eppinger, General Motors Leaders for Global Operations Professor, Professor of Management Science and Innovation, Professor of Engineering Systems Massachusetts Institute of Technology, Sloan School of Management**, shares his perspective on the future of engineering design and the key trends affecting engineering design processes, engineering organizations and engineering culture. Dr. Eppinger discusses the implications these changes have on the engineering design profession, on the ways we must develop engineers today, on the kinds of jobs that engineers will have in the near future, and the challenges of engineering leadership.
- **Bill Fitzgibbons, Vice President, Global Dealer Technical Support, AGCO Corporation**, discusses key challenge facing the agricultural industry including the need to create a sustainable food supply created by the explosive population growth in the 21st century. Mr. Fitzgibbons shares how AGCO’s strategy utilizing leading multi-brand, multi-cultural resources has positioned the company to provide forward-looking solutions in every region of the world.
- **Joe Graney, Director of Engineering, Santa Cruz Bicycles Inc.** uses his passions for cycling and engineering to encourage young people to pursue technical fields. Mr. Graney uses the mountain bike, a familiar object, to make engineering relevant to students and illustrate real world applications of mathematics, science and engineering.
- **Tim Ingold, Jr., Director of Engineering Development, Design Engineering, Jabil**, encourages product development companies to incorporate social networking principles into the workplace to foster real collaboration, increase productivity and spark innovation. Mr. Ingold examines some of the adoption challenges that companies face and shares best practices from the most successful social enterprises.
- **Patrick Simpkins, Director of Engineering, NASA, John F. Kennedy Space Center**, challenges attendees to take notice of their everyday surroundings as an opportunity to identify new sources of innovation and imagination. He shares anecdotes from the space program to demonstrate how NASA creates an environment that supports and encourages innovation.

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PTC CEO Jim Heppelmann Declares New Era of Manufacturing Competitiveness Driven By Product and Service Advantage

4 June 2012

PlanetPTC Live--At its annual worldwide gathering of customers, PlanetPTC Live in Orlando, Florida, PTC® today declared a new era of manufacturing competitiveness driven by technology solutions that help companies achieve product and service advantage. In his keynote address, PTC president and CEO Jim Heppelmann argued that the world is poised to enter what The Economist magazine recently labeled a “third industrial revolution.” In this new era, a concerted focus on strategy will lead a renaissance in global manufacturing which will, in turn, put companies using PTC technology solutions in increasingly important roles helping create new value for their companies, and helping them achieve a competitive edge in the 21st Century.

“Over the past few decades, global manufacturers have made massive investments in technology and process change aimed at improving operational efficiency,” said Heppelmann. “Today, however, we are reaching the limits of the competitive edge these investments can deliver. Manufacturers need to be operationally efficient to stay in the game, but they can no longer achieve meaningful advantage from that alone. The time has come for a new source of competitive advantage – product and service advantage – from technology and process change that improves strategy decision-making across the enterprise, from engineering to the supply chain to sales and service networks.”

Fundamentally, PTC technology solutions transform the way companies create and service products by enabling them to make better, smarter, faster strategy and planning decisions. These decisions relate to how products are designed and engineered, how a supply chain is optimized, how quality and compliance is assured throughout the manufacturing process and, ultimately, how service is efficiently delivered against a product once sold. Individually, these planning decisions help deliver a strategy that supports a brand. Collectively, they are the new source of competitive advantage.

Over its 25 year history, PTC has developed a deep expertise in helping companies optimize the processes associated with each stage of the product lifecycle. In recent years, through a combination of organic development and acquisition, PTC has built a broad portfolio of technology solutions that it combines with its process expertise to assist customers in achieving greatness. In 2012, PTC has gone one step further and reorganized the company itself to align directly with the organizational structure of the modern manufacturing enterprise. Specifically, PTC has established five internal leadership teams focused on driving its technology solution strategies in the areas of product lifecycle management (PLM), computer-aided design (CAD), application lifecycle management (ALM), supply chain management (SCM), and service lifecycle management (SLM).

“A new era is upon us,” concluded Heppelmann. “To win in the new century requires a new way of thinking. For manufacturers, it’s about making fundamentally smarter strategy decisions. Today, advantage goes to those who differentiate their product and service offering, and PTC is proud to align itself with leading global brands that are poised to win in the new competitive era by achieving product and service advantage.”

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Speeding up Biogas Plant Projects with 3D Engineering Design

6 June 2012

At UK AD & Biogas 2012 (4-5 July, NEC) CAD Schroer will demonstrate how MPDS4 reduces plant and factory design project timescales. There is a 70% renewable energy project discount on the software.

For food sector Owner Operators and biogas plant providers gathering at UK AD & Biogas, stand P63 may evoke particular interest: CAD Schroer will be showcasing its factory layout and 3D plant design software for faster project delivery at lower cost.

About UK AD & Biogas

UK AD & Biogas 2012 is the only trade show in the UK dedicated exclusively to anaerobic digestion and biogas. It includes over 200 exhibitors, a comprehensive conference, free seminars and professional clinics. Showcasing why AD is the missing link to achieving maximum waste and resource management, climate-smart farming and sustainable food production, the event will show how beneficial the integration of AD can be, and how it can be most successfully achieved.

Software for Designing Complete Process Plants and Factories

CAD Schroer's team will be on hand to demonstrate its MPDS4 PLANT DESIGN and factory layout software, which allows process engineers in areas like sustainable energy to progress projects quickly and cost-effectively by creating fast concept designs, project cost estimates and detailed 3D plant and factory layouts. Visitors will be able to find out more about the powerful engineering suite's role in design process integration, optimisation and automation.

Low Cost and High Benefit for Renewable Energy Projects

"The issues of food waste, affordable organic waste processing and renewable energy generation are high on the UK's policy agenda," says CAD Schroer's Anke Adams. "This conference and exhibition will be an important contributor to the debate, showing farmers, processors and municipalities how to get value from food waste and tackle AD plant projects in a financially prudent manner. We hope to contribute to the affordability and success of such projects by offering our factory design and plant engineering software nearly at cost to companies involved in renewable energy projects, be they food factory Owner Operators or project management and engineering firms."

To receive free entry to the UK AD & Biogas exhibition, visitors can click on CAD Schroer's events page for their special registration code: <http://www.cad-schroer.com/News/Events/1/1465/pk/174/>

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WorleyParsons, Empresarios Agrupados and Samsung Heavy Industries Receive Intergraph® Awards at Hexagon 2012

7 June 2012

Companies from Australia, Europe and Asia received the top prizes in the annual Golden Valve and Platinum Pipe Awards customer competitions sponsored by Intergraph®. The awards were presented here during Hexagon 2012, the annual user conference for Intergraph's Process, Power & Marine division and Hexagon AB's other businesses.

The Golden Valve Awards Competition annually recognizes the most innovative and well-executed uses of software supported by Intergraph Process, Power & Marine. The competition is open to all SmartPlant® Enterprise and SmartMarine® Enterprise engineering design software users and the subject matter must relate to the process, power, offshore or shipbuilding industries.

WorleyParsons Ltd. received "Best of Show" in the 12th annual Intergraph Golden Valve Awards Competition for the company's intricately detailed view of a process facility produced using SmartPlant 3D, SmartPlant P&ID, SmartPlant Review, SmartPlant Electrical, SmartPlant Instrumentation and SmartPlant Foundation. WorleyParsons' winning entry was submitted by Rhys Ryan in the Discipline-specific category. With headquarters in North Sydney, New South Wales, Australia, WorleyParsons is a provider of professional services to the resources and energy sectors and process industries.

The Platinum Pipe Awards Competition annually recognizes the most innovative automation ideas for SmartPlant 3D and SmartMarine 3D (collectively known as Smart 3D), or SmartPlant P&ID, SmartPlant Electrical and SmartPlant Instrumentation (referred to as SmartPlant Engineering & Schematics).

Spain's Empresarios Agrupados and Samsung Heavy Industries Ltd. of Korea (KOSPI: SHI) earned first prize in the third annual Platinum Pipe Awards Competition in the Engineering & Schematics and 3D categories, respectively.

Empresarios Agrupados, a diversified international architect-engineering organization with headquarters in Madrid, Spain, claimed first place in the 2D Engineering & Schematics category. Its winning entry featured a numbers of automations on SmartPlant P&ID, creating a customized system in compliance with all the requirements needed to be used in projects, either standalone or integrated with SmartPlant Foundation, SmartPlant 3D and SmartPlant Instrumentation. The entry was submitted by Juan Garcia Rendon.

Second place in Engineering & Schematics was presented to Sinopec Ningbo Engineering Company Limited (China) and third place to SNERDI I&C Group (China).

Samsung Heavy Industries, a SmartMarine 3D user since 2004, claimed first prize for the third year in a row with its win in the 3D Design category. Its winning entry, submitted by ByungCheon, Min, used

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SmartMarine 3D to develop a lifting lug modeling and consistency check program.

Second place in 3D Design was presented to Empresarios Agrupados, while Chinergy Co., Ltd. (China) and Grenland Group (Norway) tied for third place.

The 2012 Golden Valve and Platinum Pipe competitions attracted more than 100 entries.

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "The Golden Valve and Platinum Pipe competitions received numerous inspiring entries from users of Intergraph's industry leading, next-generation solutions. Our knowledge-based and rules-driven technologies for improving safety, quality and productivity give customers around the world in the process, power, offshore and marine industries the competitive advantages they need."

To view this year's Golden Valve winning entries, please visit www.intergraph.com/ppm/customers/awards/goldenvalve/2012

To view this year's Platinum Pipe winning entries, please visit www.intergraph.com/ppm/customers/awards/platinumpipe/2012

All place winners are eligible to receive a monetary award for their efforts and also will have their work displayed on Intergraph's Web site and in the division's *Insight* magazine. Golden Valve winners will be featured on the 2013 Intergraph Process, Power & Marine calendar

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Financial News

Dassault Systemes Schedules Its Capital Markets Day 2012 on June 15, 2012

7 June 2012

[Dassault Systèmes](#) will host its Capital Markets Day 2012, on Friday, June 15, 2012.

The on demand webcast of the event will be available in the afternoon of June 15, 2012 via the Internet by accessing Dassault Systèmes' website at <http://www.3ds.com/company/finance/>

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Oracle Sets the Date for Its Fourth Quarter Fiscal Year 2012 Earnings Announcement

3 June 2012

Oracle Corporation today announced that its fourth quarter and full fiscal year 2012 results will be released on Thursday, June 21st, after the close of the market. Oracle will host a conference call and live webcast at 2:00 p.m. Pacific Time to discuss the financial results. The live webcast will be available on the Oracle Investor Relations website at www.oracle.com/investor

For more information about Oracle visit www.oracle.com or contact Investor Relations at investor_us@oracle.com or (650) 506-4073.

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Implementation Investments

Delcam Software Helps to Bring Tyre Mouldmaking In-house

6 June 2012

Many years of using a range of Delcam's CAD/CAM software has helped Belarus tyre company, Belshina, to bring all its mouldmaking in-house despite a significant increase in production volumes.

Belshina is one of the largest producers of the tyres in Europe, both in the number and the size of the tyres it manufactures. The company makes more than 200 different types of the tyre in three plants: one for mass production of car tyres; one for tyres for buses, trolley-buses, lorries and tractors; and one for the largest tyres for vehicles for earth-moving and quarrying. A fourth plant manufactures and repairs moulds for the other three sites.

The company first invested in Delcam software in the 1990s, buying Delcam's original DUCT system to give it the ability to program the first five-axis machine tools used in the mouldmaking plant. At that time, the plant only produced around sixty moulds each year, with the remainder of the company's needs met by subcontract manufacturers.

At the turn of the century, Belshina made the transition from DUCT to Delcam's PowerSHAPE CAD software and PowerMILL CAM system. The company steadily added more seats of both programs as it increased its manufacturing capabilities and the number of moulds being produced. It has now reached sufficient capacity to be able to manufacture all its moulds in-house and no longer uses subcontractors.

During the same period, the company investigated ways to improve its quality and consistency. In 2006, Belshina added a Cimcore inspection arm, together with PowerINSPECT for inspection and PowerSHAPE Pro for reverse engineering.

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The most recent addition to the mouldmaking plant was a special four-axis machine tool from Taiwan, purchased in 2011 to mill inscriptions and trademarks onto the surfaces of moulds. Belsina added an extra seat of PowerSHAPE and PowerMILL, plus PowerINSPECT On-Machine Verification, for this machine.

At the start of 2012, Belshina undertook an evaluation of its complete set of CAD/CAM software as part of a continuous development review. Following this review, the company ordered four seats of the FeatureCAM feature-based machining software and its first seat of ArtCAM for artistic applications, such as engraving of logos and trademarks.

When asked about his company's long relationship with Delcam, Valery Saprykin, the Manager of the technology bureau at the plant, commented, "As soon as we started working with the Delcam staff, we realised that the company had very professional software developers. We have received exceptional support in solving the problems within our manufacturing plant. Whenever we have a problem, we can always find a solution from Delcam and Adequate Systems, the company's representatives in Belarus."

"Until now, we haven't found any complex technical problems that we couldn't solve with their help," he continued. "We appreciate greatly such cooperation and partnerships."

Currently, the factory produces more than 300 moulds each year, with the growing demands of the parent company constantly requiring an increase in the number of moulds to be manufactured.

"The reliability of the software, plus the variety of machining strategies, allows us to optimise the productivity of our equipment and meet the increase demand for moulds each year, and to ensure that our quality levels are maintained," said Mr. Saprykin. "We believe that the cooperation with Delcam gives us a solid foundation for our further development and makes us confident about our future."

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GibbsCAM: Going From Part to Art

4 June 2012

Gibbs and Associates, developer of [GibbsCAM](#)[®] software for programming CNC machine tools and a Cimatron company, today announced that GibbsCAM customer, Blue Chip Engineering, has engineered and machined a mobile sculpture to be awarded as part of an international prize, on June 6, 2012. On that day, the [Buckminster Fuller Institute](#) will announce the winner of its Buckminster Fuller Challenge, an annual international design competition that provides a \$100,000 prize "to support the development and implementation of a strategy that has significant potential to solve humanity's most pressing problems." The prize, to be announced and presented at the Frederick P. Rose Auditorium, 41 Cooper Square, in New York City, is accompanied by a trophy in the form of "OmniOculi," a sculpture designed by artist [Tom Shannon](#).

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[Blue Chip Engineering](#), a job shop in Ramsey, MN, whose primary business is providing machining services for the medical, aerospace, and other industries, has been helping Tom Shannon realize sculptural concepts since 2004. The sculptures are typically levitated or dynamic works of art, which include scale versions of large sculptures, and sculptures to accompany awards such as the annual TED Prize, awarded for humanitarian efforts, and the annual Michael J. Fox Award, given for scientific advancements in curing Parkinson's disease.

Rick Denny, Blue Chip founder, said that the Buckminster Fuller Challenge award sculpture, which comprises two spheres, has been the most challenging of the Shannon sculptures: "The upper sphere, eight inches in diameter, with a wall thickness of a quarter inch, has 1,100 holes of 16 different sizes, and it is designed to rotate or spin on a shaft attached through roller bearings to the supporting lower, four-inch diameter sphere."

Tom Shannon intended his sculpture to reflect several relationships to Fuller's architectural concepts, both physically and optically, two such concepts being geodesic geometry and harmony with the environment. Also, to perform as "an interactive optical instrument," Mr. Shannon required the internal and external surfaces to be mirrors, which would reflect the environment within and without. To create the relationship to geodesic polyhedrons, Mr. Shannon enlisted the geodesics expertise of scientific designer Joe Clinton, who developed a pattern of holes on a CAD system to achieve the effect.

Joe Clinton provided Blue Chip the design and "seed pattern" for the holes in a Cadkey file, which Mr. Denny transferred into SolidWorks to create a solid model, duplicate the hole pattern across the spherical surface, use mass properties to physically balance components, and provide machinable models for programming a 5-axis machine tool with GibbsCAM.

The upper sphere has to be machined as two hemispheres. The two pieces could not be brazed or epoxied together because access to the interior surface would be required for dusting or re-polishing. This created the most difficult part of the project, which was matching the two halves while maintaining continuity of the hole patterns. Once resolved, machining could begin.

As with all Shannon sculptures, the visible and highly reflective components begin as solid 2024 aluminum billet. Programming the general machining was easy, but, Mr. Denny said, "Programming the holes would have been a nightmare, had it not been for the combination of SolidWorks and GibbsCAM, which give us a lot of power."

GibbsCAM has a utility called Hole Manager, which simplifies and automates hole-making operations, which can often be achieved with three mouse clicks. Hole Manager automatically recognizes holes by characteristics assigned within SolidWorks, puts a point at the center of each hole, and provides a normal vector to the hole. The points and normal vectors are used by GibbsCAM to program the proper tool rotation to perform the specified hole operations – boring, drilling, tapping and countersinking. It is especially useful when holes to be made are on multiple planes, such as the infinite number of possibilities presented by spheres. "Programming 1,100 holes for 5-axis machining was still difficult, and I spent a lot of time doing it," said Mr. Denny, "but it wasn't the nightmare it would have been

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without SolidWorks and GibbsCAM.”

After machining, polishing each hemisphere was extremely time-consuming, requiring several steps with progressively finer grit, to leave perfectly spherical reflective surfaces. As with procedures in using SolidWorks and GibbsCAM, Blue Chip has developed processes for polishing to pass Tom Shannon’s scrutinizing eye. Even so, there’s one task that has yet to be simplified and automated. After polishing each hemisphere, the shop spends five hours cleaning to remove polishing compound from all of the holes. “You just sit down with an electric drill and a million Q-tips, and get it done,” Mr. Denny said.

The required detail and patience pay off with the engineering, programming and machining challenges that Mr. Denny enjoys from working with Tom Shannon, and the association of his work with worthwhile causes. Also, as often happens when one’s work is admired, Blue Chip was rewarded with a new client, when Joe Clinton had the shop engineer, machine, polish and assemble his “[Radix Universum Triplets-egression](#),” a mathematically-based sculpture of polished aluminum. On June 6, Mr. Denny will have the added satisfaction of seeing the Shannon-Clinton designed, Blue Chip made, OmniOculi sculpture in the hands of another contributor to humanitarian causes.

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Hitachi Employs Mentor Graphics' Olympus-SoC Place and Route Platform for Critical ASIC Designs

5 June 2012

Mentor Graphics Corp. today announced that Hitachi, Ltd. (Chiyoda-ku, Tokyo) has adopted the Olympus-SoC(TM) place and route system for large scale ASIC development, and has achieved successful tape out of a 40nm, 90 million gate design.

"Hitachi was able to easily close timing for this large scale 90 million gate design using the large flat mode capacity of Olympus-SoC," said Kazuhisa Miyamoto, senior director, MONOZUKURI Innovation Group, Hardware MONOZUKURI Division, Information & Telecommunication Systems Company, Information & Telecommunication Systems Group, Hitachi, Ltd. "Not only did Olympus make it easier and faster to close the design, but we also got much better quality of results. Through good communication with R&D, Mentor Graphics provided us with swift support whenever we got into trouble. We believe it is truly significant for our business that we completed such a successful tape out with Olympus-SoC."

The Olympus-SoC place and route platform features a unique, patented architecture specifically created to address extremely large and complex IC designs. Olympus-SoC has a very compact database that enables it to handle full-chip designs with hundreds of millions of gates in flat mode. This, combined with native multi-corner, multi-mode optimization, provides improved timing and signal integrity for chips with exploding gate counts and mode-corner scenarios. The system also provides full support for multi-voltage, low-power designs including advanced algorithms for clock tree optimization and leakage reduction. The Olympus-SoC router has also been architected to handle complex design rule checking (DRC) and design for manufacturing (DFM) requirements for advanced process nodes, including pattern

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matching, and priority-based recommended rules support. The Olympus-SoC system is tightly integrated with the Calibre(R) verification and design for manufacturing (DFM) platform to address manufacturing variability with signoff verification at the design stage.

"Many place and route tools based on older architectures are out of steam at 40nm and 28nm, where designers face 100M gate design complexity along with high performance and low power challenges," said Pravin Madhani, general manager of the Place and Route group at Mentor Graphics. "The Olympus-SoC architecture is built to address the capacity, performance and low-power requirements of smaller geometry nodes. Olympus-SoC also has tight links with Calibre, enabling designers to create "first time right" designs that meet all the signoff requirements of the target foundry without costly design iterations."

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PTT Maintenance and Engineering Company Limited Integrates Intergraph® SmartPlant® Enterprise and Leica Geosystems Laser Scanning Solutions

5 June 2012

PTT Maintenance and Engineering Company Limited (PTTME), the engineering, procurement and construction (EPC) services subsidiary of PTT Global Chemical Public Company Limited (PTTGC), has implemented a combination of Intergraph® SmartPlant® Enterprise and Leica Geosystems laser scanning solutions for the operations and maintenance of its existing plants.

PTTME had chosen to standardize on SmartPlant Enterprise (including SmartPlant 3D, SmartPlant Layout, SmartPlant Review, SmartPlant Instrumentation, SmartPlant P&ID, SmartPlant Reference Data, Standard Database for SmartPlant Reference Data and SmartSketch®), as well as Intergraph CADWorx® & Analysis products such as CADWorx, CAESAR II®, PV Elite® and Tank™) as its integrated engineering platform for all projects. PTTME also implemented SmartPlant Enterprise for Owner Operators (SPO) to capture and maintain plant information for the various plants that PTTGC owns and operates.

With the addition of a highly versatile Leica Geosystems ScanStation laser scanner and associated software solutions, PTTME will be able to capture current as-built data from PTTGC's legacy plants. The data will then be integrated into SmartPlant Enterprise environment, enabling PTTME engineers to capture and maintain the geometric dimensional information of existing facilities. This will greatly facilitate the operations and maintenance of PTTGC's plants, with all engineering information managed through PTTME's centralized SPO system. With the integration of laser scan data, the EPC firm will also be able to work on the captured as-built 3D model in SmartPlant 3D for any changes to both brownfield and greenfield projects. PTTME will use the SmartPlant Enterprise suite and Leica Geosystems laser scanning solutions enterprise-wide for all engineering projects, with Intergraph's partner, Neon Infotech Southeast Asia Company Limited (Neon Infotech), continuing to provide dedicated local distributor support.

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Intergraph and Leica Geosystems are both part of Hexagon, a leading global provider of design, measurement and visualization technologies. Since becoming part of the same corporate family, Intergraph and Leica Geosystems have worked even closer to enhance their longtime partnership and to offer more benefits from the integration of laser scanning and 3D design, as well as other SmartPlant Enterprise engineering solutions.

"We have established the comprehensive SmartPlant Enterprise portfolio as our engineering standard and it has delivered enhanced safety, quality and productivity for our engineering projects," said Somsak Keerativutisate, managing director of PTTME. "We have full confidence in Intergraph technology and we decided to expand our use of SmartPlant Enterprise with the integration of Leica Geosystems laser scanning solutions for our plant operations and maintenance. This will give us an integrated view of our facilities and will enable us to take the next step in making our plant information management processes even more efficient and intelligent."

"By improving the internal availability of high-definition surveying capabilities, PTTME demonstrates a commitment and ability to capture current conditions, as well as dynamic updates to a constantly changing and complex 3D plant environment," added Juergen Dold, president of Leica Geosystems. "All of this now made possible through the use of our leading 3D scanning solution, the ScanStation C10 with integrated survey, scanning and imaging capabilities."

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "PTTME's decision to integrate Leica Geosystems laser scanning solutions with the Intergraph SmartPlant Enterprise suite for PTTGC plants is testament to the synergy between Hexagon companies, with Intergraph technology working in perfect tandem with fellow Hexagon company's solutions. This also reinforces Intergraph's leadership position with owner operators in the industry, with the Leica Geosystems offering further strengthening our integrated portfolio of solutions across the entire plant life cycle."

SmartPlant Enterprise offers a powerful portfolio of industry-leading, best-in-class design and data management solutions, enabling companies in the process, power and marine industries to capture integrated engineering knowledge at the enterprise level for the competitive advantage in today's and tomorrow's market. SmartPlant Enterprise's integrated suite of solutions enables proven productivity gains, improving engineering efficiency by up to 30 percent. This is why the majority of plants built worldwide are designed using Intergraph solutions.

The ARC Advisory Group, a leading industry analysis firm, ranks Intergraph as the global leading supplier of process engineering tools, engineering design tools and engineering design 3D software, according to its *"PET Market Analysis and Forecast through 2015."*

About PTTME

PTT Maintenance and Engineering Company Limited (PTTME) is a subsidiary of PTT Global Chemical Public Company Limited (PTTGC), the chemical flagship of PTT Group. PTTGC is Thailand's largest and Asia's leading petrochemical and refining company. PTTME provides maintenance and engineering

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services to PTT Group, as well as other petrochemical, refining, gas separation, exploration and utility clients in Thailand. These services include planning, maintenance, engineering management, design, consulting and project management. PTTME also provides inspection and testing services for equipment used in the operation of large plants. www.pttgcgroup.com, www.ptt-me.com

About Leica Geosystems

With close to 200 years of experience pioneering solutions to measure the world, Leica Geosystems products and services are trusted by professionals worldwide to help them capture, analyze and present spatial information. Leica Geosystems is best known for its broad array of products that capture accurately, model quickly, analyze easily, and visualize and present spatial information. Those who use Leica products every day trust them for their dependability, the value they deliver and the superior customer support. Based in Heerbrugg, Switzerland, Leica Geosystems is a global company with tens of thousands of customers supported by more than 3,500 employees in 28 countries and hundreds of partners located in more than 120 countries around the world. Leica Geosystems is part of the Hexagon Group, Sweden. www.leica-geosystems.com

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SUB10 Systems Limited Selects Aras Solution Suite Combined with Minerva EHT for Enterprise Product Lifecycle Management

8 June 2012

Aras® today announced that SUB10 Systems Limited, a provider of millimeter wave (MMW) wireless Ethernet bridges based in Devon, UK, has selected the Aras PLM solution suite combined with Minerva's Electronic and High-Tech (EHT) solution to improve collaboration, streamline development processes and drive product configuration management across the enterprise.

Sub10 Systems specializes in the design, development and manufacture of the Liberator® and Dominator® brands of wireless, MMW point-to-point links. Liberator high speed wireless data links deliver line-of sight connections using MMW over distance of up to one kilometer. Designed for use in urban locations, the compact links are smaller than an iPad and offer lower cost provisioning, installation and operation.

To accelerate implementation and leverage industry best practices, the Company will implement Minerva's Electronic and High-Tech solution for Aras Innovator®. "We considered other PLM solutions developed for the electronic industry, but selected Minerva's EHT solution on top of Aras because it gives us a lot of functionality, proven best practices and industry knowledge, along with reduced implementation time," said Nick Redfern, NPI Manager at SUB10 Systems Limited.

"At Minerva, we've applied our more 10 years of experience implementing PLM solutions specifically for the Electronic industry into a solution that combines advanced technology with an open source

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business model to enable companies such as SUB10 Systems to get their PLM projects up and running quickly and cost-effectively with minimal risk,” said Leon Lauritsen, Director at Minerva.

About Sub10 Systems

Based in Devon in the South West of England, Sub10 Systems was founded in 2010 by a group of highly respected telecomm professionals with a broad base of management, technical, channel and sales disciplines. Sub10 Systems specializes in the design, development and manufacture of the Liberator® and Dominator® brands of wireless, millimeter wave (MMW) Point-to-Point links. Sales of Liberator and Dominator are via a network of distributors and integrators. To learn more, visit www.sub10systems.com

About Minerva

Since 1996 Minerva has implemented Enterprise solutions in both PLM and ERP. Minerva has established itself as Europe’s largest Aras implementation partner. Our customers value that we challenge their current ways of operating and that they are assisted in getting a better insight in the options available in order to reach these goals. At Minerva we not only help describing the customers' current state and the ways to reach the ultimate end goal, we also implement the systems to support the change management process. Minerva has also established themselves as large contributor to Aras in terms of provided different add-on capabilities. These add-ons are technical productivity tools, integrations and also full industry solutions. For additional information visit www.minerva-plm.com/aras/home

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Product News

3DModelSpace Supplier Directory included in PTC® Creo™® Design Software – “A Model at Every Click”

4 June 2012

CDS (Catalog Data Solutions, Inc.) today announced the extension of 3DModelSpace.com with a new Supplier Directory. The Supplier Directory is a comprehensive list of industrial suppliers that offer free CAD downloads from their respective websites. All industrial suppliers who offer free online models for CAD designers are eligible for inclusion in 3DModelSpace and the 3DModelSpace Supplier Directory which are available directly within PTC® Creo™®. This provides designers with access to hundreds of thousands of downloadable 3D CAD models during their design process and from within their Creo CAD system.

3DModelSpace is the leading CAD Model Search Engine linking directly to manufacturers’ and distributors’ web pages that offer 3D CAD models. It provides vertical search specific to manufactured parts and deep links directly to appropriate parts on manufacturers’ and distributors’ web sites. The 3DModelSpace search engine also includes direct links to six Pro/LIBRARYACCESS™ Catalogs complete with CAD downloads for Creo and Creo Student Edition.

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"Engineers search online for manufactured part content more than ever before," said Michael Campbell, DVP Creo Product Development, PTC. "With 3DModelSpace embedded within Creo, designers can search across manufacturers and go directly to specific parts of interest that have downloadable CAD models. The result is that they can focus on designing and innovating new products instead of spending time and effort modeling parts they don't manufacture. The objective of 3DModelSpace and the new Supplier Directory is to enable access to millions of CAD models from hundreds of suppliers from directly within Creo."

"Under our long alliance with PTC, 3DModelSpace.com is available from within Creo and we're delighted to enhance the site by adding the 3DModelSpace Supplier Directory to enhance usability and search for designers and by adding optional advertising opportunities for suppliers", said John Major, CEO of Catalog Data Solutions. "The sourcing and buying process has changed and engineering designers now search for parts online. The 3DModelSpace site is the perfect place to search and be assured of finding a 3D CAD model. Any suppliers interested in having their brand and links to their CAD models included should contact CDS."

About CDS

CDS (Catalog Data Solutions, Inc.) is a leading SaaS provider of product search, configuration, and online CAD solutions for Manufacturers and Distributors. Founded in 2005 with headquarters in San Jose, CA, CDS enables Manufacturers and Distributors to increase sales by enabling their products to be specified into new designs, improve website conversion rates, generate high quality sales leads, and improve customer service. CDS SaaS solutions include the CDS ModelServer™, CDS Catalog™, and CDS CAD Configurator™. CDS's highly skilled and experienced professional services team provides CAD modeling and implementation services for the successful deployment of CDS SaaS solutions. The company's customers include the world's leading manufacturers and distributors in the High Tech, Industrial Manufacturing and AEC industries. For more information CDS can be reached at 408.550.8820 or by visiting www.go-cds.com.

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Accept Software Announces 2nd Release this Year

6 June 2012

Accept Software announces general availability of the latest release of its Accept360 software. The second and latest 7.3 release this year significantly improves the use of the software in all areas from requirements management to road mapping and portfolio management. The new "Requirements Analysis" in this release, provides customers an easy way to set their own product planning decision criteria and performance metrics and judge the results for themselves without IT technical help.

With this release, product executives and their teams can continue to count on getting more done faster and keep business objectives aligned to the product plan.

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Today, many product companies pay too little attention to choosing solutions that truly enable product information to be effectively used for important tasks such as analyzing investment impacts before they're made; properly allocating resources; or weighting projects, etc. In addition, when new ideas come in or markets shift, product teams can't easily absorb changes, let alone reconcile them with original requirements.

Accept Software contends that product companies would have far more product success if they would take a step back and consider their overall product planning issues. Asking if their product planning and management challenges go beyond what their in-house solutions and "best-in-class" tools can do to meet their business goals.

John Hamm, CEO of Accept Software: "It becomes clearer everyday that product companies' last and greatest opportunity to get a competitive edge lies in modernizing their product planning."

About:

When companies outstrip their "business-as-usual" product planning tools and in-house solutions, Accept Software's product planning empowers global enterprises to accommodate constant change, coordinate teams and manage product scope, no matter how large or complex, from concept to delivery.

Accept Software's collaborative approach gives companies with complex product planning challenges a modern solution for aligning their products to the best market opportunities.

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Agilent Technologies' Newest GoldenGate Software Release Accelerates Design Verification

4 June 2012

Agilent Technologies Inc. today announced the latest release of its RFIC simulation, verification and analysis software, [GoldenGate 2012](#).

"Support for GoldenGate provides our customers with access to Agilent's proven expertise in RF and microwave design. As a next step, we are working to qualify Agilent's RFIC solution for the 65nm and 55nm nodes."

Raising the bar on performance and usability, the 2012 release offers RFIC designers a host of technology enhancements for accelerated design verification, extended design-for-manufacturing solutions and improved links to system design. Additionally, new licensing models offer users greater purchasing flexibility.

Agilent will demonstrate GoldenGate 2012—along with a range of solutions for everything from circuit-level modeling through system verification for general RF, microwave, 4G communications, and aerospace/defense applications—at DAC2012 (Booth 313), June 3-7, in San Francisco. GoldenGate

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2012 will also be demonstrated at IMS 2012/IEEE MTT-S (Booth 1015), June 19-21, in Montréal, Canada.

Accelerating Design Verification

Design verification can be a tedious and time-consuming task for today's RFIC designers. GoldenGate 2012 accelerates design verification through a number of technology enhancements that allow users to set up distributed simulations, run them with unmatched performance, and display and analyze massive amounts of data.

Agilent also offers users an extended "parallel simulation license" at a fraction of the cost of the base GoldenGate simulator license. The license is supported in any scenario launching a parallel simulation (and ADE-XL in Cadence Virtuoso).

X-Parameters* Extraction

A key feature of GoldenGate 2012 is X-parameters extraction. X-parameters are a mathematical superset of S-parameters and are used for characterizing the amplitudes and relative phase of harmonics generated by nonlinear components under large input-power levels. The new GoldenGate 2012 X-parameters feature allows designers to capture the nonlinear behavior of active components such as amplifiers and save the data for quick use in simulation models in RF system or circuit designs, while also hiding all intellectual property.

"We are very pleased to see the new X-parameters extraction support in GoldenGate," said Alireza Shirvani, vice president of engineering at Amalfi Semiconductor Inc. "We are using X-parameters to speed up design and co-simulation at the die-module interface, and to share an executable circuit model that encodes the proprietary details."

Additional Enhancements

GoldenGate 2012 features improvements in RFIC simulation, support for advanced analysis and millimeter-wave design, and wireless standard-compliant verification. These and other enhancements are all designed to further improve the software's performance and usability.

Another enhancement in the area of design-for-manufacturing is the integration of GoldenGate 2012 into the MunEDA WiCkeD tool suite for the analysis, sizing and modeling of circuits. The integration enables automatic compensation of process variations and parasitic influences, and helps reduce the overall power consumption and noise in RF circuits. With GoldenGate 2012, RFIC designers can now more confidently develop leading-edge RF products at advanced nodes.

Expanded Foundry Support

Product enhancements and new capabilities are essential for successful RFIC designs. Meanwhile, foundry and EDA collaboration are equally important to ensure silicon-accurate results at advanced RF process nodes. Agilent EEsof works closely with the major RFIC foundries. As a result, GoldenGate

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gets continuously qualified against new or updated process nodes.

“We are committed to providing our customers with dedicated RF design-flow support to handle the challenges of today’s sophisticated RF designs,” said Richard Trihy, director of design methodology at GLOBALFOUNDRIES. “Support for GoldenGate provides our customers with access to Agilent’s proven expertise in RF and microwave design. As a next step, we are working to qualify Agilent’s RFIC solution for the 65nm and 55nm nodes.”

[GoldenGate](#) is the most trusted simulation, verification and analysis solution available for integrated RF circuit design within the Cadence Virtuoso design flow. Its unique simulation algorithms are optimized for the demands of today’s complex RF circuit designs, enabling full characterization of complete transceivers prior to tape-out. GoldenGate is part of Agilent’s RFIC simulation, analysis and verification solution, which also includes Momentum for 3-D planar electromagnetic simulation, SystemVue and Ptolemy wireless test benches for system-level verification, and the Advanced Design System data display for advanced data analysis.

Agilent’s GoldenGate 2012 will be available in August. More information on GoldenGate 2012 is available at www.agilent.com/find/eesof-goldengate. An image of the new software release is available at www.agilent.com/find/GG2012_images.

About Agilent EESof EDA Software

Agilent EESof EDA is the leading supplier of electronic design automation software for microwave, RF, high-frequency, high-speed digital, RF system, electronic system level, circuit, 3-D electromagnetic, physical design and device-modeling applications. More information is available at www.agilent.com/find/eesof

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Anaglyph Furthers Relationship with Altair by Adding its Composite and Laminate Analysis Software to Altair's HyperWorks Partner Alliance

6 June 2012

Altair today announced the addition of [Anaglyph](#)'s software LAP and CoDA tools to the assortment of applications available through the HyperWorks Partner Alliance (HWPAA). LAP and CoDA products from Anaglyph are used predominantly throughout the preliminary design cycle for the analysis and design optimization of composite structural components.

Altair HyperWorks customers can access LAP and CoDA through the [HWPAA](#), 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.

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"Anaglyph has enjoyed a mutually beneficial relationship with Altair through integration with HyperWorks products and is excited to further the partnership by adding CoDA and LAP to the Partner Alliance," said George Kretsis, CEO of Anaglyph Ltd. "Both are versatile tools used by designers and researchers alike in more than 30 countries across the world and are renowned as powerful, yet user friendly. They are applicable to a broad range of sectors in the preliminary design process; and now that they are available through the partner program, they will be accessible to an even wider range of customers in a variety of industries."

The Laminate Analysis Program (LAP) can be used to analyze any type of composite laminate subjected to in-plane loads and moments; and since a flat laminate has no fixed size, the analysis can be applied to any composite component. Typically, the software is used in the preliminary design for tailoring a stacking sequence, then analyzing the composite component with other methods, such as FE, and finally optimizing the design by inspecting the laminate behavior layer by layer. The simplicity of the analysis ensures universal applicability, since it is not limited by structural shape.

The software maintains its emphasis on ease of use and fast, efficient, robust solvers. While the program has powerful features that make it an ideal tool for the demanding expert, newcomers to composites can complete simple tasks within minutes. The software is used by companies in aerospace, shipbuilding, car racing, and other industries, as well as in academic environments and professional teaching.

CoDA is based on several years' research from the Composites Group at the National Physical Laboratory in the UK (NPL). It can be used to undertake preliminary analysis of sub-components with plate, beam, joint, flange or laminate geometries, which will enable accurate sizing, potential materials and stacking sequences to be selected for further detailed investigation. CoDA synthesizes the properties of composite layers or laminates to be used in a seamless manner within the design modules. The integration of the modules allows for instantaneous assessment of the effect of changes on any input parameters. CoDA modules also provide "what-if" scenarios for users to rapidly evaluate graphically any output result as a function of variable input data.

"With CoDA and LAP, the HyperWorks Partner Alliance evolves to the next level of technical capability, extending its offerings in the composites arena and advancing Altair's relationship with Anaglyph Ltd," said Antoine Poussier, Altair's vice president of global partner programs. "Anaglyph helps make the HWPAs even more exceptional in its offerings and its flexibility, enabling users to unlock new innovations and create even better products."

The HWPAs successfully provides the most comprehensive offering of software applications across multiple relevant domains related to computer-aided engineering that positively affect the entire lifecycle of products. The addition of LAP and CoDA further enhances the flexibility of the HyperWorks Units and the overall value of Altair HyperWorks.

About Anaglyph

Established in 1995, Anaglyph Ltd has been providing cutting-edge technology engineering consultancy

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services in all aspects of industrial design, analysis and manufacture. The company's in-house expertise is mainly on advanced structural applications, in particular those employing composite materials. Anaglyph was the first company to provide commercial composites-specialized software applications for PCs. Anaglyph's products are highly competitive, as they offer excellent value for money in this niche market. For more details, please visit www.anaglyph.co.uk.

About the HyperWorks Partner Alliance

Altair's HyperWorks platform employs a revolutionary subscription-based licensing model where customers use floating licenses to access a broad suite of Altair-developed and third-party software applications on-demand. The HyperWorks Partner Alliance effectively extends the HyperWorks Platform from 28 internally developed solutions to more than 50 applications with the addition of new partner applications. Customers can invoke these third-party applications at no incremental cost using their existing HyperWorks licenses. Customers benefit from unmatched flexibility and access, resulting in maximum software utilization, productivity and ROI. For more information about the HyperWorks Partner Alliance, visit www.hyperworksalliance.com.

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BigLever Software Establishes an Open Industry Ecosystem for Product Line Engineering with the Release of Gears 7.0

4 June 2012

BigLever Software™ announced today the release of Gears 7.0, a new version of the company's industry-standard PLE Lifecycle Framework. With the release of Gears 7.0, BigLever is establishing an open industry ecosystem of world-class tool providers -- including developers of commercial, open source, customized, integrated or proprietary Application Lifecycle Management and Product Lifecycle Management tools -- to further catalyze the accelerating proliferation of PLE. The centerpiece of Gears 7.0 is a new API, the PLE Bridge API, that enables engineering tool makers to become part of the PLE ecosystem by making their tools "product line aware" and ready to be included in the unified PLE solutions used by their customers or user communities.

Companies across a spectrum of industries are leveraging the power of PLE to change the fundamentals of how they create, evolve, deliver and compete with their product lines. Leading aerospace & defense and automotive companies are using PLE approaches and BigLever's Gears PLE Lifecycle Framework as the technology foundation for highly successful mega-scale PLE deployments. The deployments in these sectors are driving the expansion of PLE across other industries, such as consumer electronics, medical, computer systems, telecom, alternative energy and e-commerce.

About Gears 7.0

The Gears Framework allows engineering organizations to establish an automated, feature-based production system, much like a manufacturing factory, enabling them to develop, deliver and evolve an entire product line portfolio through each stage of the engineering lifecycle -- from requirements to design, development and testing -- with much higher degrees of efficiency, productivity, and

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profitability than have been possible before. With Gears 7.0 and the PLE Bridge API, engineering tool makers can create PLE bridges for connecting to the Gears Framework by making their tools "product line aware", which enables their tools to work synchronously with other "product line aware" tools across the full engineering lifecycle.

BigLever also provides the Gears Bridge SDK, a companion development kit that delivers the complete package of documentation, examples and support materials that tool developers need to quickly and easily build consistent, compatible PLE bridges. Tool developers also receive the benefits of BigLever's Bridge Partner Program and Bridge Validation process. Working in collaboration with BigLever, tool developers can demonstrate -- through a series of validation steps -- that their bridge integration fully supports the PLE capabilities defined in the Gears Bridge SDK. Validated bridge providers can display the BigLever Validated Bridge logo, in order to clearly convey that their bridge product fully supports the industry's best and most successful PLE practices.

BigLever Software

BigLever Software, the leading provider of systems and software product line engineering framework, tools and services, dramatically simplifies the creation, evolution, maintenance and delivery of a product line -- a portfolio of similar products or systems with variations in features and functions. BigLever's patented Gears solution enables organizations to reduce development costs and bring new product line features and products to market faster, enabling businesses to more reliably target and hit strategic market windows. BigLever is based in Austin, Texas. For more information, visit www.biglever.com.

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Cabinet NG Launches CNG-SHARE, Secure File Sharing Portal

5 June 2012

[Cabinet NG \(CNG\)](#) today announced the availability of the industry's first fully integrated document management, cloud-based file sharing, and workflow solution. CNG-SHARE is a major component in the latest version of CNG's document management software, CNG-SAFE 8.0, which extends secure document sharing and collaboration to non-CNG users.

CNG-SHARE increases business efficiency by making it simple to share documents securely between CNG-SAFE users and their non-CNG-SAFE user contacts, such as customers, vendors, or other business associates. The cloud-based subscription service allows authorized CNG-SAFE users to post documents to a contact's password protected SHARE account. Contacts can access and manage shared documents via a standard browser interface and also share documents with specified CNG-SAFE users by uploading documents into their SHARE account.

Industry specific examples of CNG-SHARE in action include: attorneys securely sharing case matter, financial advisors sending documents securely to clients, bookkeepers and clients sharing vendor bills and customer invoices, and accountants posting completed tax forms directly for client review. The possibilities for secure document sharing are limitless.

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"Many industries face the challenge of sharing documents outside the company without compromising privacy or exposing intellectual property, yet with over 200 hosted file sharing solutions on the market today, none offer the integrated feature set that CNG-SHARE brings to document management and workflow," said Andrew Bailey, president, CNG. "Many of these solutions are basic standalone products or require complicated plug-ins if used in a business setting. CNG-SHARE is the first to offer document management, file sharing and workflow in one simple, affordable solution."

When the CNG-SAFE user selects the desired documents and shares them to the cloud, the intended recipient automatically receives an email notification with a link to connect to their SHARE folder. The contact can download and/or upload documents and create their own folders using a standard web browser, without the need to install additional software. All connections to the Internet and all documents stored in the cloud are individually secured using industry standard encryption techniques. Whenever a document is in transit or at rest, it is secure.

"This is the first off-the-shelf document management system I am aware of that offers powerful document management, workflow, and embedded web-based sharing and collaboration capabilities," said Chad Wilkerson, IT Director at Habilitative Services, Inc. "Hybrid document management is driving the next wave of document management, allowing for both traditional client/server implementations and web-based browser document management solutions to find common ground and deliver the best of both worlds, and CNG recognizes the need for mixing installed and cloud-based software."

CNG-SHARE administrators can brand the customer facing portal component and messaging with their company logo and custom title bar. Additionally, system emails sent from CNG-SHARE can be customized (subject line and body text) so when recipients receive a CNG-SHARE email, they are greeted with a familiar logo and header messaging. Branding the portal and email text is a simple administrative update that gets applied uniformly across the system.

The CNG-SHARE interface within CNG-SAFE 8.0 gives the CNG user a centralized view and control of all their shared documents. Contact activities, such as accessing, deleting, or uploading documents are also indicated in the CNG-SHARE interface.

About Cabinet NG:

Cabinet NG (CNG)'s [electronic document management](#) software moves manual paper-based processes into efficient [document workflows](#). Its user-friendly products streamline user tasks, delivering gains in office/field productivity and bottom-line savings. CNG's intuitive workflow and scheduling supports secure collaboration with centrally managed and instantly accessible documents. Advanced integration technology ensures smooth workflow and seamless connection to many existing business applications. CNG's industry specific configurations help businesses quickly attain a [paperless office](#) that scales with business growth. Products can be installed locally or online in a hosted SaaS configuration and used with a desktop or browser interface. www.cabinetng.com.

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C.R. Onsrud Finds Match with CAMCAD Technologies

6 June 2012

CAMCAD Technologies, Inc. (CAMCAD) announces an AMERICAN solution for [C.R. Onsrud](#) (ONSRUD) multi-axis CNC routers. ONSRUD, a North American machine tool builder of machinery designed for the aerospace, woodworking, plastics, and composites industries has teamed up with [CAMCAD](#), a SURFCAM Reseller, and [Surfware, Inc.](#), developer of SURFCAM® CAD/CAM systems and patented TRUEMill® technology to provide CAM software and application support for ONSRUD's multi-axis CNC routers.

"C.R. Onsrud Inc. is very excited about our affiliation with CAMCAD Technologies. SURFCAM and TRUEMill combined with the experience of the team at CAMCAD, give us many exciting new possibilities," said Tom Onsrud, President of C.R. Onsrud.

This collaboration provides ONSRUD customers a single point of support for 4- and 5-Axis CAM programming software to drive ONSRUD CNCs. CAMCAD's professional technical support, factory-certified postprocessors, and customer-specific on-site training for 4- and 5-Axis applications means no excuses, no finger-pointing, and no lengthy ramp-up time – a new ONSRUD 5ax CNC is productive as soon as it gets installed.

"We are very impressed with everything about Onsrud - the facility, the quality and rigidity of their CNC product line, and especially their unique dual 5-Axis processing capabilities," Don McKillop, CAMCAD CTO stated. "Onsrud is a fast-paced, fast-growing organization with a technically sophisticated, cheerful and efficient staff."

Peter Marton, VP Surfware, Inc, commented on the collaboration between the two companies saying, "This partnership between ONSRUD and SURFCAM CAD/CAM Systems via the 2011 North American SURFCAM Reseller of the Year, CAMCAD Technologies, could not be a better recipe for success in providing complete, multi-axis solution to customers. CAMCAD is known not only for their high level of understand of CAM programming and Post Processing, but also for their abilities to consistently provide the highest level of support to their customers and in delivering professional manufacturing solutions that exceed expectations. We look forward to customers benefiting from this Onsrud and SURFCAM solution to deliver a seamless multi-axis 'program to part' solution."

[CAMCAD Technologies, Inc.](#)

www.camcadtech.com.

[C.R. Onsrud Inc.](#)

www.cronsrud.com

[Surfware, Inc.](#)

www.surfware.com

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CS Odessa Announces Update to ConceptDraw MindWave for SAP® StreamWork™

5 June 2012

CS Odessa has released an updated version of its mind mapping tool, ConceptDraw MindWave for SAP® StreamWork™. The combination of SAP StreamWork and ConceptDraw MindWave make a robust, secure and economical collaboration solution.

ConceptDraw MindWave is a cost-effective solution to assist in the decision making, planning, collaborating inside your organization. Teamwork is a critical factor for organizations of any size. ConceptDraw MindWave provides teams the opportunity to present agendas, brainstorm, take notes and sort through ideas. It doesn't matter where your team members are based. Your entire team will benefit from the professional and highly reliable collaboration environment provided by SAP StreamWork and the collaborative mind mapping tool, ConceptDraw MindWave v2.

New functionality added to ConceptDraw MindWave:

- User-friendly menu, that simplify gadget using both new and regular users,
- Intuitive discovery of shortcuts,
- Topic hyperlink capability, which links materials to mind map.

About CS Odessa

Founded in 1993, Computer Systems Odessa supplies cross-platform productivity tools and graphics technologies to professional and corporate users around the world. With headquarters in Odessa, Ukraine, and an office in San Jose, Calif., USA, CS Odessa sells products internationally through resellers in over 25 countries. The ConceptDraw line of products has won numerous awards and is used by hundreds of thousands of people all over the world.

For more information, visit www.conceptdraw.com

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Development Projects: Controlling Benefits from Transparent Costs

6 June 2012

Projects are nowadays the most common form of organization in the manufacturing industry and have an ever increasing influence on business success. It's becoming more and more important for companies to combine their development projects with effective cost management in order to remain globally competitive. CONTACT Software now offers customers a new solution based on its standard interface to SAP®. It continuously supplies the SAP Project System (PS) with current data from new and running development projects, enabling transparent controlling of cost and budgets in SAP.

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Good management of development projects is becoming increasingly demanding and time-consuming. This means that the risk of not meeting project targets also increases. As a result, modern and effective project management tools that ensure that these targets are met, particularly with regard to costs, are equally growing in importance. CONTACT's interface to SAP now not only supports the synchronization of product data such as items, parts lists, etc. as standard. Thanks to substantial interface enhancements, project structures can also now be synchronized with the project definition, PSP elements and milestones in SAP PS.

The new solution enables companies to keep control of the costs associated with a development project at all times. For users in engineering and in administrative areas such as logistics, controlling and accounting, another benefit presents itself: they can carry out their tasks without having to leave their usual work environment. In the PLM platform, development projects are defined, carried out and monitored with regard to work progress and deadlines. In contrast project-specific order processing (internal orders, procurement), budget planning and cost controlling are performed in SAP. The synchronized project list, the project structure and the project lifecycle per project represent the link between technical and commercial system worlds.

Functional scope, flexibility and seamless integration in SAP are based on SAP interface technology and CIM DATABASE platform services such as Shared Object Management. Product and project data are synchronized in a service-oriented and process-controlled manner. The further development of its PLM interface to SAP reinforces CONTACT's aim to provide open, seamless business solutions to companies wishing to support their processes across roles, departments and IT-systems.

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Enhancements for Radbend and Punching in Radan 2012 R2

6 June 2012

Radan has just released its latest edition – 2012R2...along with new laser and tube products.

Radbend: A new way of storing face, edge and vertex details, allows data to be repeatedly transferred between Radan and the Radbend press brake software. This will allow Radbend to recognise 'similarities' between parts, and automatically re-program known parts.

Punching: A new function allows sheets to be automatically cut off on punching and combination machines to create offcuts. Sophisticated tagging methods will secure the remnant in place while unloading the sheet skeleton. And there is additional functionality to the order mode tool list, including using visual feedback to show whether the state of the tool is 'not processed,' 'partially processed,' and 'all processed.' The tool selection has also become more intuitive, activating on selection to allow redraw.

The rectangular nesting algorithm for single parts has been enhanced and shows increases in material

utilisation.

The user can specify the columns visible in the nest lists, allowing custom part properties to be used to, group, sort and identify parts.

Certain attributes have been machine specific, i.e. they hold different values for different machine tools. This means that, for example, the runtime of a nest can be stored with machine specific values.

Values calculated by Quick Estimates are now stored and can be shown on the nest layout drawings, html setup sheets and nest project reports.

The new Radm-ax and Radtube are now available:

Radm-ax is a 5-axis programming system for multi-axis laser or water-jet cutting machines in the general engineering, automotive and aerospace industries. And **Radtube** is specialist programming software for rotary and multi-axis cutting machines used by the tube cutting and manipulation industry.

Both come with a comprehensive machine and postprocessor database making them fully compatible with machines from a large number of manufacturers. Should a machine not be supported, a Machine Setup utility means bespoke machine types and post processing information can readily be configured.

Radtube: A library of parametric tube shapes simplifies the creation of the tube material to be cut. And a library of parametric hole shapes means specialist joint features such as duck tails, clips and key holes can easily be added. Radan's renowned nesting capabilities help users to nest multiple parts on a single pipe or section, by creating individual programs for each part, then simulating and checking the cutting path. Previously machined parts can be nested into a multiple number of tubes where each nested tube can be postprocessed to form a complete NC program – giving maximum yield and minimum waste from expensive materials.

Radm-ax: Cutting operations are generally divided into outer trims – the external forms of the part – and inner trims, which represent the internal cut-outs and other features to be machined. While their basic toolpaths can be generated automatically, they can also be easily created and refined manually. Users have full control over how each inner and outer trim is handled. The toolpath can also be edited regarding how the cutting nozzle is angled towards it, or how it handles jigs and fixture features – Radm-ax offers a number of ways of handling fixtures, including importing them from external files and manually repositioning them, or using the Fixture Design utility to create the support fixtures in sheet metal.

Toolpath verification and simulation in both Radtube and Radm-ax ensures there are no nasty surprises when cutting starts. A full solid toolpath simulation shows the angle of the nozzle as it moves around the part, providing instant feedback on whether machine head movement or accessibility means a specific move is possible. Any collisions which are detected are highlighted both on the model and via on-screen messages and can be manually edited or corrected automatically. Once the toolpath has been completely verified and optimised Radtube and Radm-ax quickly generate reliable NC code. And a wealth of

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features help reduce machine tool wear while ensuring feeds and speeds are maintained across the job.

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Geometric launches CAMWorks Nesting

4 June 2012

Geometric Limited today announced the release of CAMWorks Nesting[®], a nesting module designed to nest the layouts of SolidWorks[®] parts or assemblies, thus optimizing material utilization.

Integrated with SolidWorks, CAMWorks Nesting allows users to seamlessly transition 3D SolidWorks models as well as sheet metal parts or assemblies to CAM nested SolidWorks 3D assembly files, within the SolidWorks interface. It utilizes the nesting features of NestLib[®], Geometric's automatic true-shape nesting library, to generate the most optimized nested layouts. "With the CAMWorks Nesting module, users will now take the advantage to nest composites, wood and metals, and produce the maximum number of parts from a single piece of raw material within a few minutes," said Bruce Wiener, Director of R&D and Support, CAMWorks.

CAMWorks Nesting automatically nests parts based on the thickness and the material within an assembly. This feature eliminates the manual efforts of segregating individual parts with the same thickness and material during a nesting operation. The nested results are compatible with SolidWorks, and can be further utilized for toolpath and NC code generation. CAMWorks Nesting provides the best solution that addresses issues of nesting and reduction in material consumption, thus improving utilization and increasing productivity. The module supports nesting of wood for the wood-working industry, as well as composites nesting for industries like aerospace manufacturing.

For more information about CAMWorks Nesting, please visit <http://www.camworks.com/products/CAMWorksNesting.aspx>

About Geometric

Geometric (www.geometricglobal.com) is a specialist in the domain of engineering solutions, services and technologies. Its portfolio of Global Engineering services and Digital Technology solutions for Product Lifecycle Management (PLM) enables companies to formulate, implement, and execute global engineering and manufacturing strategies aimed at achieving greater efficiencies in the product realization lifecycle.

Headquartered in Mumbai, India, Geometric was incorporated in 1994 and is listed on the Bombay and National Stock Exchanges. The company recorded consolidated revenues of Rupees 8.08 billion (US Dollars 167.51 million) for the year ended March 2012. It employs over 4500 people across 12 global delivery locations in the US, France, Romania, India, and China. Geometric was assessed as CMMI 1.1 Level 5 for its software services and is ISO 9001:2008 certified for engineering operations. The company's operations are also ISO 27001:2005 certified.

Geometric's Geometry Technology Solutions (GTS) business unit develops cutting-edge point

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productivity solutions that enhance design and improve manufacturing operations. The end-user products from Geometric include CAMWorks[®], eDrawings[®] Publisher, DFMPPro[®], GeomCaliper[®], 3DPaintBrush[™], CAMWorksXpress[®] and Glovius[®]. The key technologies from Geometric are NestLib[®], Feature Recognition (FR), GeomDiff and 3DSearchIT[®]. Geometric licenses these technologies to OEM partners and also designs and implements customized process solutions using these technologies for industrial customers.

For further details about Geometric's GTS business unit, please visit www.geometricglobal.com/products

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Intergraph[®] Releases Smart 3D 2011 R1 for Enhanced Quality and Productivity

6 June 2012

Intergraph[®] has released upgrades for its plant, offshore and material handling design solutions, SmartPlant[®] 3D, SmartMarine[®] 3D and SmartPlant 3D Materials Handling Edition, collectively known as Smart 3D. All three Smart 3D 2011 R1 solutions are available to customers in the process, power, offshore and marine industries.

Smart 3D 2011 R1 customers now have additional licensing flexibility to combine any of the three applications – SmartPlant 3D, SmartMarine 3D and SmartPlant 3D Materials Handling Edition – with any other Smart 3D license. The advantages of Smart 3D licensing flexibility include reduced administrative costs; additional features available to the plant market from running the marine product; built-up members; and construction management. By upgrading to the latest release, users will now be able to have access to all functionalities of Intergraph's integrated Smart 3D solutions.

Smart 3D extended its 3D modeling capabilities to address the needs of the offshore design and fabrication industry. Specialized Advanced Plate Systems (APS) quickly and efficiently model complex nodal connections for offshore topsides structure composed of ring plates, continuity plates, base plates, transition plates, cap plates, and more. Complex member end-cuts for welded connections can be applied to the various configurations typical in offshore projects from front-end engineering design through steel cutting.

The unprecedented integration between Smart 3D and SmartPlant P&ID is another greatly enhanced feature in the new version, promoting improved quality and higher productivity. The upgraded automatic correlation functionality finds and makes items the same between SmartPlant P&ID and Smart 3D, including topological checks on pipelines, thus saving users valuable time on projects. Also, any minor inconsistencies to include topological inconsistencies like vents and drains that are modeled in Smart 3D, but not in SmartPlant P&ID can be easily approved with the “approve inconsistencies” feature.

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Smart 3D 2011 R1 further enhances Intergraph's ground-breaking 3D interoperability. Datasets generated from multiple sites can be checked for interferences against one another in a single Smart 3D project. Smart 3D also now offers the ability to create and save intelligent connections to referenced datasets.

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "Intergraph's integrated Smart 3D solutions are being used by an ever-increasing number of companies worldwide to boost productivity, accelerate projects and gain a competitive edge."

SmartPlant 3D is the world's first and only next-generation 3D plant design solution, employing a breakthrough engineering approach that is focused on rules, relationships and automation. It is the most advanced and productive 3D plant design solution that effectively enables optimized design, increasing safety, quality, and productivity, while shortening project schedules. Companies using SmartPlant 3D typically report a 30 percent improvement in overall engineering design productivity.

For more on SmartPlant 3D, visit www.intergraph.com/go/smartplant3d.

SmartMarine 3D is the world's most advanced offshore and shipbuilding design solution, featuring breakthrough engineering technology that is data-centric, knowledge- and rule-driven to improve delivery schedules, with increased detail and manufacturing design productivity of up to 30 percent. SmartMarine 3D is endorsed and used by leading offshore and marine companies globally, including the most productive shipyard, the top offshore owner operator, the top fabrication yard, and the top classification society in the world.

SmartPlant 3D Materials Handling Edition provides the gateway for the metals and mining industry to implement projects using Intergraph's established, intelligent Smart 3D solutions. The metals and mining industry can now take advantage of the benefits of a single database, multi-parallel discipline design, clash detection, and data re-use. SmartPlant 3D Materials Handling Edition was developed with direct engagement and feedback from some of the leading materials handling system design companies around the world, and is used and endorsed by these industry leaders. For more on SmartPlant 3D Materials Handling Edition, visit www.intergraph.com/go/mining.

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Intergraph® Releases Validation, Transformation and Loading 2012

6 June 2012

Intergraph has released Validation, Transformation and Loading (VTL) 2012, a comprehensive SmartPlant® Enterprise solution capable of managing data import from multiple sources. This productized version of VTL, based on a SmartPlant Enterprise for Owner Operators (SPO) template solution already in production use in several large offshore projects in the North Sea and oil sands projects in Canada, has evolved into a quick and easily configurable, scalable tool to streamline data

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handover for new projects or data take-on from brownfield revamps. The result is faster and successful project implementation.

VTL 2012, with its highly configurable workflows, solves the business requirements of Intergraph customers by ensuring data integrity, validation and transfer between two end points of a business process. It is markedly superior to competitors' existing offerings because of its pre-configured end-to-end work processes. It also has a robust validation engine to achieve specific preciseness of data, and is standardized on industry-leading SmartPlant Foundation architecture and database.

VTL 2012 is a data take-on and handover application that handle large volumes of structured data, perform quality control against configurable business rules and load transformed data to a target system. It serves as an engine for the approval and transitioning of data from multiple sources to a target.

The productized version of Intergraph's popular SPO VTL solutionware features pre-configured registers to help make project implementation easier and faster. A register is a list or input format that is a structured way of handing over information, typically deliverables from engineering, procurement and construction companies. VTL 2012 reads the registers in terms of an input and validates the inside of those register rows against a set of business rules. VTL 2012 reduces capital expenditures by improving the quality and integrity of engineering deliverables, which can reduce handover costs by as much as 40 percent and facilitates the tracking of key performance indicators dealing with data quality and delivery from contractors and vendors.

Patrick Holcomb, Intergraph Process, Power & Marine executive vice president of global business development and marketing, said, "Our valued customers are impressed by the design and usability of VTL 2012. This product builds upon Intergraph's industry-leading technology and ensures high-quality data at the target system, resulting in reduced engineering and operations costs."

The ARC Advisory Group, a leading industry analyst firm, ranked Intergraph the No. 1 overall engineering design 3D software and process engineering tools (PET) provider worldwide according to its "*PET Worldwide Outlook Market Analysis and Forecast through 2015*."

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IronCAD Announces IRONCAD COMPOSE “Configure - View - Communicate”

31 May 2012

IronCAD, LLC today announced the immediate availability of IRONCAD COMPOSE. IronCAD customers around the globe have always been extremely productive within their modeling and design departments. Many customers today use IRONCAD to design products, but also a growing number have adopted it as the tool of choice to create, one off, customer specific assemblies using their standard parts and components. In industries such as Factory Automation, Office Furniture, Kitchen Layout, Shop Layout, Exhibition Stand Design, Shelving and Racking Solutions and even Boatbuilding and Yacht Fit

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Out, IRONCAD has always led the way, with its powerful tools for assembly and configuration

Today with the introduction of the new IRONCAD COMPOSE product, these companies have been able to expand the potential for their users, by providing a new tool to allow anyone in the workgroup to collaborate and work effectively, referencing the company's core design data.

IRONCAD COMPOSE offers all the functionality you would expect from a basic viewer, but a lot more. COMPOSE is a tool that can be used across the organization, from a point of sale configuration and demonstration tool, to a viewer for use in manufacturing.

- Simple Viewing - It can open and manipulate all standard IRONCAD file formats (and with the low cost add-on translator, can also open files from all mainstream CAD products) and can take measurements and interrogate the file structure.
- Sales Configuration – Enables users the ability to simply drag and drop parts, scale and manipulate parts within the scene to create a unique customer specific assemblies. COMPOSE includes IRONCAD's powerful SmartAssembly technology, so rules and intelligence can be built in to the parts from the outset. The program can then produce a simple output such as the pricing information required to create a proposal.
- Compelling Presentation - It also provides powerful real-time and photorealistic rendering and even animation allowing users to create compelling presentations with fly through motions, allowing sales and marketing teams to really get buy in from their prospects.
- Seamless Collaboration – Using a standard set of tools and shared data from sales right through design to manufacturing ensures that there are no opportunities for errors or miscommunication. COMPOSE, allows the CAD department to take their data outside the drawing office in a safe and controlled manner.

This powerful new tool is also remarkably simple to learn and to use. Incorporating IRONCAD's unique catalog structure and powerful TriBall positioning tools, COMPOSE can be picked up by anyone and with the integrated video tutorials, makes learning a matter of minutes.

For existing IRONCAD customers, this provides a unique opportunity to share data with a wider audience at no cost. They can even provide the COMPOSE product to their prospects and customers set up with all their own standard catalog parts.

Engineers using other CAD solutions are also welcome to take up the challenge and try IRONCAD COMPOSE for free. Simply download a trial of IRONCAD and use it to import your geometry and create your own catalog of parts. Then using COMPOSE, start sharing your data inside and outside your organization.

“We have seen a growing demand for this type of product from our user base over recent years” stated Richard Serna, V.P. of Sales at IronCAD. “We see this as a very exciting period, with companies under pressure to sell more effectively, this unique product enables them to take the design to the prospect providing a powerful way to get buy in upfront and also to ensure that the requirements are fed back to

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the manufacturing team accurately and quickly. In the current economic climate, leading companies need to ensure that they remain competitive and innovative and we strive to deliver the leading edge tools to ensure they achieve this” he continued.

Originally developed as a tool for existing IRONCAD users, IronCAD LLC have chosen to make this freely available to everyone, as an opportunity to share the IRONCAD vision and creative approach to design, with a wider audience. Also under development are a number of Apps and tools to enable users to remain collaborative and creative on the move, working across a number of mobile platforms.

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Kenesto 2012 Is Generally Available

6 June 2012

Kenesto Corp. (www.kenesto.com) today announced that Kenesto™ 2012, the company's cloud-based process automation system, is now generally available. Kenesto revolutionizes the way users across a manufacturing enterprise create processes and manage work. By combining cloud technology with unsurpassed ease of use, Kenesto overcomes the rigidity, cost and complexity of legacy systems like product lifecycle management systems (PLM) and business process management systems (BPMS). Kenesto enables enterprises to know more about their business, involve their suppliers and customers in important processes and reduce the time-to-market for products. More importantly, Kenesto achieves the universal acceptance that has eluded legacy systems because Kenesto allows people to create processes that work the way users want them to. Designed from the ground up for simplicity, Kenesto can be learned by anyone in the enterprise in just a few minutes.

"Kenesto will make a significant difference in the way we process engineering changes and other workflow processes in our company," said Bruce Wetherbee, senior manager, engineering systems at Metso Automation, Inc., a global supplier of technology and services to customers in the process industries. "Many crucial processes in our business still run on paper because we had not found a system that is easy enough or flexible enough to replace our paper processes. Kenesto meets those requirements and now, with Kenesto, we can finally automate these processes and realize the benefits of greater control and visibility into our business."

Major new capabilities in Kenesto 2012 Kenesto 2012 offers all of the features that were available in the Kenesto beta, including zero client installation, a browser-based process creation environment, automatic generation and execution of processes and the ability to seamlessly include any person or company in Kenesto processes. Based on feedback from the Kenesto beta program, the general release of Kenesto 2012 has added significant additional functionality, including

- Integrated forms capability. Information on paper still drives many companies' processes. In Kenesto 2012, users can easily transform paper-based processes into Kenesto processes, using just their browser. Forms attached to Kenesto processes have all the desirable attributes of paper-based forms with none of the disadvantages. Unlike paper forms, Kenesto forms remain with the process on the cloud, are searchable and are access-controlled.

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- Enhanced reporting. Visibility into a company's processes assists managers in making crucial decisions. Kenesto 2012 reporting makes it easy for decision-makers to gain that visibility. Kenesto 2012 reports are easily customized to answer crucial questions like "How fast are we working on a given set of processes?" and "Which processes are in a specific step and how long have they been that way?" Standard reports that are included in Kenesto 2012 include Activities by Users, Process Throughput, Process by Time and Process Steps by Time.
- 3D viewing of parts and streaming of common video formats. Product-based processes almost always require digital product information to be attached to the process. The Kenesto beta supported attachment and viewing of many different formats of digital information, including Microsoft(R) Office(R) documents, images and 2D drawing formats such as Autodesk(R) DWG(TM) files. Kenesto 2012 breaks new ground by offering 3D viewing of many 3D parts files, Dassault Systemes(R) SolidWorks(R) assemblies as well as mp4 and .wmv video formats. All files are rendered in a browser with no client installation required, making it possible to solve two conflicting demands in product-based processes. In Kenesto 2012, access to intellectual property can be both universal and easily controlled.

"We are very excited to bring Kenesto 2012 to the market," said Michael Payne, CEO, Kenesto Corp. "We have built a product which works the way people want it to without forcing them to change how they work and which delivers technology in precisely the way people want to access it. With Kenesto 2012 we have reached an objective no PLM system has achieved before: practically zero implementation costs for deployment or training. By rigorously adhering to two principles -- Kenesto must be 100% cloud-based and Kenesto must always do what the user, not the software, expects -- we believe we have produced the first process automation system that can be broadly deployed across the enterprise."

System requirements, pricing and availability Kenesto runs in any HTML5-capable browser, including mobile devices running Android(R) and iOS(R).

Kenesto is offered in a series of Process Plans. Each Process Plan allows a company to initiate up to a specified number of processes each month. Plans are billed annually. Customers may change their Process Plan at any time with an effective date of the first of the following month. If a company starts more processes in a month than are allowed in its Process Plan, those additional processes are billed at the current plan's per-process rate. There are no penalties for exceeding the plan amounts.

Every Kenesto process includes access by an unlimited number of users, so everyone inside and outside a company may participate in Kenesto processes. And, each process may have an unlimited number of documents and/or attachments added to it. Intellectual property attached to Kenesto processes may be easily access-controlled to prevent leakage or loss of a company's IP.

About Kenesto

Kenesto (www.kenesto.com) is a new kind of process automation system. In contrast to legacy PLM systems, Kenesto is people-centric, product-based and enterprise scalable. Kenesto combines these three attributes into the first system that can be widely deployed across an enterprise to improve a company's

teamwork and efficiency. Kenesto revolutionizes process automation by making process automation more widely applicable, more affordable and easier to use than ever before. Kenesto is privately-held and based in Waltham, MA.

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KOMPAS-3D V13 Portuguese Version is Released

5 June 2012

ASCON Group is pleased to announce the release of KOMPAS-3D V13 Portuguese Version. Since now all the Portuguese speaking users of the MCAD solution will be able to experience more than 100 enhancements in the new version of professional 3D and 2D modellers, benefit from even more user-friendly interface, easy to learn features, flexible collaboration with third-party software, and all enhanced by reasonable pricing. These improvements permit customers to increase their productivity through better usability, simplified product development, and quicker design-to-product processes — with fewer errors along the way.

Solid Modeling and Drawing Enhancements

KOMPAS-3D V13 allows you to specify arrays from data in a table. See the figure below for an example of this new technique.

The construction of curves is refined with options for creating cylindrical spirals, filleting curves, and editing the shapes of spline by their vertices. Conical shells can be unfolded. Faces can be extruded and revolved without needing sketches.

Advanced Surface Modeling

New types of surfaces have been added to KOMPAS-3D, which can be analyzed:

- Curve to a law
- Spline on a surface
- Outline
- Isoparametrical curve
- Group of isoparametric curves on a surface
- Curve by two projections
- Projective curve
- Contour

The smoothness of surfaces can now be verified visually through zebra striping.

BOM and Properties Reporting

The new auto balloon function inserts balloon leaders automatically in 2D drawings, details, and 3D

assemblies.

Properties can now be assigned to drawings, views, details, and macro elements. The properties of object properties in models and drawings can be presented in reports. These reports are associative, and can include properties of the model depicted by the drawing and its objects. Reports on graphic documents can be inserted in the document.

New Add-Ins

The new **APM FEM** (finite element methods) add-in is a fully integrated stress analysis solution that operates in a single window.

The new is a powerful tool that increases the productivity of designers making moulds for the plastics industry. It increases design quality and therefore improves the competitiveness of companies producing these products.

The add-in implements the following functions:

- Analyzes the parts of 3D models
- Designs the shapes for the parts of die moulds
- Models of the moulding channeling system

The new **Dimensional Chain Calculation** add-in places dimension chains in drawings and details.

The new **Welding Symbols library** creates welding seam designations in drawings according to the standards specified by ISO 2553:1992 and DIN 22553-1997.

The new Pack and Go add-in packages project documents to a single file or folder. The package file includes documents from KOMPAS documents and related programs. The package can be used to easily transfer project documents to other computers, be used for backups, to transmit files to clients, and so on. Files are saved so that they load correctly on the destination computer with KOMPAS-3D or KOMPAS-3D Viewer installed.

New Artisan Rendering

The add-on enables creation of high quality images of virtual products or buildings, whilst they are still being designed in the MCAD solution. Artisan is easily integrated directly within KOMPAS-3D system and its simple workflow process enables a faster design to final image creation.

To try out these new features, download KOMPAS-3D V13 in Portuguese or in the others languages for a 30-day free trial from <http://ascon.net/pt/download/kompas/>

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Luxion to Feature All New Level of Connectivity Between KeyShot and Creo 2.0

4 June 2012

Luxion will be demonstrating KeyShot 3.2 and previewing a completely new level of connectivity between KeyShot and Creo® that will significantly enhance the overall workflow and further integrate the highest quality image creation in the product development process.

Luxion is proud to be a Gold sponsor of the 2012 PlanetPTC Live event being held June 3-6 at the Rosen Shingle Creek in Orlando, Florida. During this week, Luxion will demonstrate an unprecedented level of connectivity between KeyShot and Creo which will allow users to push their design changes directly from the 3D modeling application into KeyShot and have the entire KeyShot scene update automatically. In addition, Luxion will demonstrate the new features in KeyShot 3, including material templates, metallic paint, the all new environment editor and the powerful CPU-driven architecture that makes KeyShot the perfect solution for rendering large models created in Creo.

Live Linking

Luxion has developed an ability to connect Creo and KeyShot in a live session. With this enhancement, Creo users will be able to make a change to the design at any level and send it directly to a running session of KeyShot. The scene inside KeyShot will update automatically and either replace the existing design or add the new design iteration to the existing scene.

When combined with Luxion's patent-pending Material Templates, even the largest assemblies can have materials assigned in a matter of seconds. Whether it is for the automatic material assignment of standard parts or different colors and finishes, the user can have an unlimited number of templates ready at their fingertips to quickly assign the materials without having to pick through hundreds of parts.

Live Linking will be included as part of the Creo plugin for KeyShot and can be accessed from the Creo toolbar area with a single click that transfers the updated Creo model to the KeyShot session. This allows KeyShot to become the first rendering solution that is seamlessly integrated into the product development process. Whether it is at early concept stages, during the prototyping phase, when the final design is being presented, or when sales and marketing images are being produced - a design update is literally just a button push away.

See it at PlanetPTC Live!

Live Linking will be previewed at PlanetPTC Live, June 3-5. Come see us at booth #628 to see how KeyShot 3.2 and these new capabilities can help extend product visualization possibilities. To learn more about KeyShot and why it is the preferred solution for Creo users for the creation of photographic images from their designs, please click here: keyshot.com/keyshot/keyshot_for_creo.html

About Luxion

Luxion is a leading developer of advanced 3D rendering and lighting technology. KeyShot is the first realtime ray tracing and global illumination program that uses a physically correct rendering engine certified by the CIE (International Commission on Illumination). Addressing the visualization needs of designers, engineers, marketing professionals, photographers and CG specialists, KeyShot breaks down

the complexity of creating photographic images and animations from 3D digital data. Luxion's customer list includes many of the Fortune 1000 product manufacturers and major industrial design companies including Dell, HP, Microsoft, Motorola, Nokia, Procter & Gamble, IDEO, frog design and SMART Design. For more information, please visit keyshot.com

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Mastercam X6 Lathe Increases Productivity on the Shop Floor

7 June 2012

Mastercam X6 Lathe delivers a suite of new features aimed at increasing user productivity. From Variable Depth Roughing and Canned Rough and Finish improvements, to Finish Tool Inspection and more, Mastercam X6 Lathe ensures that you're ready for any job in the shop.

Variable Depth Roughing

Now you can vary the point that the tool insert contacts the surface to prevent notching and improve tool life. The depth can vary up to 25% of the cut depth. In Variable Depth Roughing, the tool moves in at an angle on the first roughing pass, so the material contact point moves. Then the tool takes the second pass in a traditional horizontal cut, using the already angled remaining stock to again maintain variable contact. Repeat the process throughout the roughing cycle and the result is much longer insert life.

Canned Rough and Finish Improvements

Mastercam X6 Lathe includes several improvements to canned rough and finish toolpaths. These include:

- Added clearance options in canned rough operation parameters to extend the chain for tool clearance.
- Added parameters in the Lead in/out dialog to shorten the start and end of the chain.
- Canned finish operations now use the cutter comp options from the canned rough operation.
- Support for Type 1 and Type 2 canned cycles.
- Added clearance value for canned finish.

Finish Tool Inspection:

Tool Inspection is available in Finish toolpaths. You can establish points during operations where the machine can be programmed to a specific position and then stop to allow you to perform tool inspections. You can set the conditions on which the tool inspections are performed, such as after a number of passes, after a specified cut length or a cut duration.

Other Enhancements in X6 Lathe:

Additional new features in Lathe include:

- Finish toolpaths are now optimized to detect and finish up (flats) and down (walls) cut regions of the profile using a single chain.

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- Facing toolpaths in Mastercam X6 Lathe offer additional feeds and speeds specifically for finish passes.
- New *Corner* button on the Face parameters tab provides options for adding a chamfer or radius to the edge of a part.
- For grooving toolpaths, you now have the option to adjust the plunge and retract feed rates on the first plunge cut.

For more information on Mastercam Lathe, please visit www.mastercamlathe.com.

Mastercam X6 Lathe Increases Productivity on the Shop Floor

7 June 2012

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Mentor Graphics Announces FloEFD for PTC Creo with Fully Embedded Fluid Flow and Heat Transfer Simulation for Creo Parametric, Creo Elements/Pro and Pro/ENGINEER Wildfire

1 June 2012

Mentor Graphics Corporation today announced the availability of its [FloEFD™ v11.3 Concurrent Computational Fluid Dynamics \(CFD\)](#) technology, the industry's fully embedded solution for PTC's Creo Parametric, Creo Elements/Pro, and Pro/ENGINEER® Wildfire® design software. Unlike other CFD software, Mentor Graphics® FloEFD for Creo works directly with native PTC product geometry to keep pace with ongoing design changes. Since designers are using the same geometry and a common user interface for CAD and analysis, FloEFD for Creo allows users to maintain a single set of data across the entire project design flow.

A key benefit in using Mentor Graphics FloEFD for Creo is “Concurrent CFD,” which can reduce simulation time by as much as 65 to 75 percent in comparison to traditional CFD tools. Concurrent CFD enables users to optimize product performance and reliability while reducing physical prototyping and development costs without time or material penalties.

PTC customers using FloEFD for Creo will realize a wide range of physical simulation capabilities for fluid flow, heat and mass transfer, including a special module for electronics cooling applications with extensive property libraries.

“As a ‘Platinum’ member of the PTC PartnerAdvantage™ Program, Mentor’s Mechanical Analysis Division provides advanced CFD products that are seamlessly integrated with our products,” stated Brian Thompson, vice president of MCAD Product Management from PTC. “Mentor’s full support of FloEFD for Creo will help our customers eliminate design errors, reduce costs, and optimize designs involving heat transfer and fluid flow before physical prototypes.”

The FloEFD for Creo product is available today and designers can download a free CFD software

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version from the Mentor Graphics website

at: <http://www.mentor.com/products/mechanical/products/floefd/floefd-creo-trial-eval>.

“PTC is a valued technology partner and our FloEFD for Creo product enables our mutual customers to develop innovative products with minimized risk and higher productivity,” stated Keith Hanna, director of marketing, Mechanical Analysis Division of Mentor Graphics. “Our seamless integration with PTC’s products and our leading concurrent and upfront CFD technology are designed to help our customers get to market faster, and with confidence and reliable simulation results.”

FloEFD for Creo at Planet PTC Live 2012

The Mentor Graphics FloEFD for Creo product will be featured at the Planet PTC® Live 2012 conference at the Rosen Shingle Creek Hotel in Orlando, Florida, June 3-6, 2012. Visit the Mentor booth #209 during this event to see this product in action. For more information, go

to: <http://live.planetptc.com/>.

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Mentor Graphics First to Support Accellera UCIS with Questa Functional Verification Platform

4 June 2012

Mentor Graphics Corp announced support for the newly approved Accellera Systems Initiative Unified Coverage Interoperability Standard (UCIS) version 1.0 via the Questa® UCIS API library. Mentor made the original donation of the Questa Unified Coverage Database (UCDB) application programming interface (API) specification, which was selected as the basis for the now ratified standard.

The UCIS API allows utilities to be developed to perform ranking, merging, analysis and reporting that is vendor independent. Within the Questa verification platform, this database API has been used as the basis of the Questa [Verification Management](#) (VM) tools, which include these utilities plus many more higher-level applications such as testplan tracking, trend analysis, results analysis and regression management. In addition to the standard coverage models for all metrics generated by Mentor tools, the API supports third-party and user coverage access to the Questa Unified Coverage Database (UCDB). This openness allows users and partners to bring coverage data from other languages and tools into the UCDB.

“Managing the verification process and achieving coverage closure rank at the top of today’s verification challenges,” said John Lenyo, vice president and general manager of the Design Verification Technology division of Mentor Graphics. “Mentor was pleased to work with the committee to finalize the standard to realize our vision. Mentor joins our customers to celebrate the formal approval of the Accellera UCIS standard, as an important piece of a comprehensive coverage solution.”

“We applaud Mentor’s support of the UCIS standard, a standard that grew from Mentor’s UCDB technology donation to Accellera,” said Shishpal Rawat, chair of Accellera Systems Initiative.

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"Managing the ever growing amount of verification information from multiple sources to improve the verification closure process is an industry imperative that adoption of this standard helps address."

Questa Vanguard Partnership (QVP) program participants have immediate access to the Questa implementation of the UCIS API to access the coverage database to promote sharing of verification results and help users determine if their verification goals have been met using the Questa VM solution. Adoption of the standard is enhanced with a migration path from the original UCDB API to the UCIS API that allows current integrations continued access to existing UCDB databases. QVP members have immediate access to Questa VM extensions like testplan management that offer another level of integration beyond what is supported by the standard today.

"Test and Verification Solutions' assureVIP™ development program has seen vast improvements in productivity, efficiency and delivery quality using Questa VM built on UCDB, the basis for UCIS," said Mike Bartley, founder and CEO of TVS. "With the presence of this fundamental enabling technology, now a standard, it relieves us of the need to develop complex scripts to manage coverage output."

To learn more, visit the Mentor Graphics booth #1530 and the Verification Academy booth #1514 at the Design Automation Conference June 4-6, 2012 in San Francisco, CA. The Verification Academy booth features UVM applications and daily discussions with Harry Foster and other prominent verification experts and standards developers. Visit <http://verificationacademy.com/> for more information.

About UCIS

UCIS is a first step towards the creation of a unified coverage database that allows for interoperability of verification coverage data across multiple tools from multiple vendors. With the growing complexity of chip design, coverage metrics are critical to measuring and guiding design verification. UCIS offers chip designers a standardized way to model and access information among different tools to achieve full verification closure. UCIS allows users to write their own applications, access information, analyze, grade, merge, and report coverage from one or more databases from one or more tool vendors. The standard is built on an open API, which provides a path to exchange coverage databases without requiring a common code library between tools and vendors.

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MunEDA Presents the Integration of its WiCkeD Design Tool with Agilent Technologies' GoldenGate Simulator at DAC

4 June 2012

MunEDA today announced that it and Agilent Technologies Inc. have integrated MunEDA's software product WiCkeD(TM) for circuit porting, analysis and optimization with Agilent's GoldenGate RFIC simulation and analysis software to enhance and speed up the analysis, modelling and optimization of RF circuits.

The integrated solution is now available for customer use. It will be presented by MunEDA and Agilent

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at the 2012 Design Automation Conference (DAC) in San Francisco, June 4-6, as well as at the MunEDA User Group Meeting 2012 in Munich, October 18-19.

WiCkeD is a comprehensive and powerful software tool suite from MunEDA for the sizing (including porting), analysis, modelling, optimization, and verification of analog/mixed-signal and full-custom digital circuit designs and IP libraries.

Agilent GoldenGate RFIC simulation and analysis software is the most trusted simulation, verification and analysis solution available for integrated RF circuit design. Its unique simulation algorithms enable full characterization of complete transceivers prior to tape-out. Frequency- and time-domain techniques are used to accurately verify the most complex RFIC-Wireless design performance.

According to Juergen Hartung, RFIC product marketing and foundry program manager with Agilent EEs of EDA, "MunEDA's high-end EDA tools for analysis, modelling, porting, and sizing perfectly complement our GoldenGate trusted simulation, verification and analysis solution for integrated RF designs. This solution will enable our customers to confidently develop leading-edge RF products at advanced nodes."

Michael Pronath, vice president of products and solutions at MunEDA, explains, "We are proud to cooperate with Agilent EEs of EDA, the global leader in RF and high-frequency EDA simulation tools. Besides GoldenGate's proven performance to handle complex RF circuit simulations, our customers will also resonate with its parallel simulation license to make massive verification runs affordable."

Major customer benefits of the integration include:

- Integrated simulation and sizing environment for high-sensitive, high-performance and high-frequency RF circuits
- Circuit reliability and performance increased by 5x-10x
- Reduced design time and effort, and significantly improved design quality
- The ability to detect design failures before tape-out and going to fab
- Helps users avoid expensive re-spins and re-designs, reduces fab-runs
- Helps users achieve high design yield/robustness and profits

For customer reference cases and more information see user testimonials and presentations at the MunEDA User Group Meeting (MUGM) <http://www.muneda.com/User-Group-Meetings> or www.agilent.com/find/eesof-goldengate

Agilent EEs of and MunEDA also cooperate in the FP7 project SMAC -- Smart Systems Co-Design Project (reference no.:288827) with further industry and academic partners. For more information about the FP7 SMAC project visit www.fp7-smac.org

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About MunEDA

MunEDA develops and licenses EDA tools and solutions that analyze, model, optimize and verify the performance, robustness and yield of analog, mixed-signal and digital circuits. Leading semiconductor companies rely on MunEDA's WiCkeD(TM) tool suite -- the industry's most comprehensive range of advanced circuit analysis solutions -- to reduce circuit design time and achieve maximum yield in their communications, computer, memory, automotive and consumer electronics designs. Founded in 2001, MunEDA is headquartered in Munich, Germany, with offices in Sunnyvale, Calif., USA (MunEDA Inc.), and leading EDA distributors in the U.S., Japan, Korea, Taiwan, Singapore, Malaysia, Scandinavia, and other countries worldwide. For more information, please visit MunEDA at www.muneda.com

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Sigmatix Launches GD&T Advisor Software For PTC® Pro/ENGINEER® And Creo®

4 June 2012

Sigmatix today announced the premier of its [GD&T Advisor](#) (Geometric Dimensioning and Tolerancing Analysis) software solution for Pro/ENGINEER® and Creo®. The result of collaboration with Alex Krulikowski at Effective Training, Inc. (ETI), GD&T Advisor is an interactive tool that provides expert guidance on the correct application of GD&T. It guides designers through a standards-based application of GD&T from within the CAD environment, increasing GD&T standards conformity and accuracy while reducing the time to apply GD&T by 75%.

Powered by Sigmatix' CETOL 6 Sigma Technology, GD&T Advisor software offers the creation, validation, education, and reusability functions. With wizard-like performance and navigation, it delivers an informative analysis with function-oriented guidance, allowing for the efficient and intelligent application of correct GD&T in the 3D model environment. In real-time, the software applies mathematical rules and standards to drive validation, visualization and function-oriented repair of existing GD&T. Created by Effective Training, Inc. (ETI), the Interactive Help feature provides instructive, educational support, consisting of a content-sensitive use guide that links to an entire GD&T Encyclopedia. The model-centric, "intelligent" annotations created can then be repurposed, with the full GD&T meta-data applied in the downstream processes, including computer Aided Manufacturing (CAM), and Computer Aided Inspection (CAI).

"Partnering with PTC enables Sigmatix to deliver the best, most innovative dimensioning and tolerancing solutions on the market," said Sigmatix President, Tim Bogard. "Collaborating with ETI guaranteed the best domain expertise and most effective GD&T educational solution available. Up until now, no other company has been able to assemble the correct pieces to develop what users have sought for years – a revolutionary improvement in how GD&T standards are applied within the CAD system to produce functionally-effective designs. With GD&T Advisor, users can now generate designs that are producible and inspectable. The final outcome is a radical reduction in the amount of product failures that result from the poor understanding of many companies – the comprehension of a powerful, yet complex engineering language called Geometric Dimensioning & Tolerancing."

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For more information on GD&T Advisor, visit <http://www.sigmetrix.com/gdt-software.htm>.

About Sigmetrix, LLC

Sigmetrix is a global provider of comprehensive, easy-to-use software solutions that help users achieve robust designs through tolerance analysis and the correct application of GD&T. With over 20 years of research and development, Sigmetrix products are fully integrated with PTC Pro/ENGINEER and Creo, and provide solutions that eliminate the error between as designed assemblies and as produced products. With implementation in more than 40 countries, Sigmetrix' software enables the world's leading product manufacturers in multiple industries to produce over 100,000 parts every year.

About Effective Training, Inc.

ETI is an international supplier of GD&T training and design resources, including software, books, videos and teaching materials. ETI founder Alex Krulikowski is a renowned GD&T expert with a degree in industrial vocational education and over 30 years of industry experience. For more information, visit their website, <http://www.etinews.com>.

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SPECapc releases PTC Creo 2.0 Benchmark

4 June 2012

SPEC's Application Performance Characterization (SPECapc) project group has released a new standard benchmark for evaluating the performance of systems running PTC's Creo(R) 2.0 product design software. The announcement was made in conjunction with the PlanetPTC(R) Live annual conference in Orlando, Florida.

SPECapc for PTC(R) Creo 2.0 provides eight workflows that exercise all aspects of system performance when running the popular application. Composite scores are generated for graphics, shaded graphics, wireframe graphics, CPU and I/O performance.

PTC contributed the model and SPECapc tested and prepared the benchmark, making maximum use of new functionality in Creo 2.0.

"On behalf of PTC, I'd like to thank SPECapc for delivering this new standard benchmark for Creo 2.0. Our worldwide customer base and our hardware partners can now measure and compare the performance of Creo 2.0 on the latest generation of CAD workstations," says Brian Thompson, vice president, Creo product management, PTC. "Graphics performance in Creo 2.0 is impressive and the SPECapc for Creo 2.0 benchmark provides our customers with a tool to determine the best hardware configuration for their particular needs."

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"It took teamwork and agility from both PTC and SPECapc to produce a benchmark of this quality in time for PlanetPTC Live," says Allen Jensen, SPECapc chair. "SPECapc for Creo 2.0 should be a great benefit to the entire PTC user community."

Available for free downloading

SPECapc for PTC Creo 2.0 is available for free downloading on the SPEC/GWPG (Graphics & Workstation Performance Group) web site: www.spec.org/gwpg

About SPECapc

SPECapc was formed in 1997 to address performance evaluation based on popular workstation applications. Current members include AMD, Dell, Fujitsu, HP, Intel, Lenovo, NEC and NVIDIA. SPECapc is part of the Standard Performance Evaluation Corp. (SPEC), a non-profit corporation formed to establish, maintain and endorse a standardized set of relevant benchmarks that can be applied to the newest generation of computers. For more information, visit: www.spec.org

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Synopsys and Samsung Deliver a Complete Solution for 20-Nanometer Node

4 June 2012

Synopsys, Inc. today announced the availability of a complete solution to enable engineers to develop state-of-the-art System-on-Chip (SoC) designs at Samsung's advanced 20-nanometer (nm) process geometry. The delivery of the solution is built on many years of close collaboration between Samsung Electronics and Synopsys R&D teams, including the tapeout of the first 20-nm chip based on Samsung's High-k metal gate process technology. The double-patterning enabled solution includes Synopsys' IC Compiler™ place and route solution, IC Validator physical verification product, StarRC™ extraction tool, and PrimeTime® timing signoff tool and all the required technology files, runsets, and rundecks. The combination of Samsung's 20nm process technology and the qualified Synopsys® tools from the Galaxy™ Implementation Platform enable predictable development of faster designs that use less area and less power.

"20 nanometer will be a very important process node which could change the landscape of the semiconductor industry," said Dr. Kyu-Myung Choi, senior vice president of System LSI infrastructure design center, Device Solutions, Samsung Electronics. "Our 20 nanometer collaboration with Synopsys, starting with our first 20 nanometer test chip tapeout, has allowed us to bring the best of 20 nanometer process technology to our mutual customers. In addition, our product teams are currently developing several next-generation SoCs for our 20 nanometer node that rely on Synopsys' Galaxy Implementation Platform."

"Broad deployment of the Galaxy Implementation Platform at Samsung for 20nm designs is the result of the strategic collaboration between the two companies," said Dr. Antun Domic, senior vice president and general manager of Implementation Group, Synopsys, Inc. "We have worked closely to address the new challenges introduced by 20nm node including double patterning technology. The collaborative

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innovations between Samsung and Synopsys will enable designers to manage power, performance, area, and time-to-market constraints by taking advantage of 20nm process technology to bring their best products to market."

20nm-ready Galaxy Implementation Platform

Samsung's qualification of Synopsys' Galaxy Implementation Platform is based on the two companies' R&D collaboration which developed comprehensive support for double-patterning technology and the hundreds of new rules related to finer geometries starting at 20nm. The Synopsys tools in the qualified flow include:

IC Compiler : Double-patterning aware placement, extraction and routing can deliver an optimal, DPT-compliant layout while minimizing any impact on area and performance

IC Validator: In-Design technology for fast detection and automatic repair of signoff-level DPT decomposition violations and yield detractor patterns, accelerating design closure for manufacturing compliance

PrimeTime: Added support for new multi-valued SPEF with minimal impact on runtime maintains signoff timing results at 20nm, including effects of double-patterning

StarRC: Silicon-calibrated modeling of parasitic variation addresses the effects of double patterning technology due to mask misalignment to enable accurate and high performance design

Details of Synopsys' 20-nanometer solution can be found at www.synopsys.com/20nm

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Synopsys Launches Industry's First Integrated Hybrid Prototyping Solution

4 June 2012

Synopsys, Inc. today announced an integrated [hybrid prototyping](#) solution that combines Synopsys' Virtualizer virtual prototyping and Synopsys' HAPS FPGA-based prototyping to accelerate the development of system-on-chip (SoC) hardware and software. By using [Virtualizer](#) virtual prototyping for new design functions and [HAPS](#) FPGA-based prototyping for reused logic, designers can start software development up to 12 months earlier in the design cycle. In addition, Synopsys' hybrid prototyping solution enables designers to accelerate hardware/software integration and system validation, significantly reducing the overall product design cycle. With high-performance models for ARM Cortex processors, ARM AMBA protocol-based transactors, and DesignWare IP, developers can easily partition their ARM processor-based designs into virtual and FPGA-based prototypes as best suited to their design requirements.

Today, designers use two relatively independent methods for SoC prototyping: transaction-level model (TLM)-based virtual prototyping and FPGA-based prototyping. Virtual prototyping is ideal for accelerating pre-RTL software development by executing fast TLMs and provides more efficient debug and analysis scenarios. FPGA-based prototyping provides cycle-accurate, high-performance execution and direct real-world interface connectivity. Synopsys' hybrid prototyping solution blends the strengths of both Virtualizer virtual and HAPS FPGA-based prototyping to enable software development and

system integration much sooner in the project lifecycle.

"The rising complexity and software content associated with multi-core SoCs means that system engineers and software developers cannot wait for hardware to begin their work; so, they are increasingly utilizing prototypes of their chips and systems," said Chris Rommel, vice president, embedded software and hardware, of VDC Research. "Synopsys' 'hybrid' approach addresses many of the limitations of standalone SoC prototyping methods by allowing developers to freely mix pre-RTL transaction-level models with RTL that already exists or is being created, giving design teams a significant head start on their hardware and software development."

Synopsys' hybrid prototyping solution enhances software stack validation through very high-speed execution of processors using a Virtualizer virtual prototype. It allows direct connection to real-world I/O model interfaces through analog PHYs or test equipment attached to a HAPS FPGA-based prototype. In addition, designers can take advantage of existing RTL or IP in the FPGA-based prototype and new functions in SystemC transaction-level models, which are faster to implement and available much sooner in a project lifecycle.

Synopsys' high-performance HAPS Universal Multi-Resource Bus ([UMRBus](#)) physical link efficiently transfers data between the virtual and FPGA-based prototyping environments. The pre-verified HAPS-based transactors, supporting ARM AMBA 2.0 AHB™/APB™, AXI3™, AXI4™ and AXI4-Lite™ interconnects, give designers the flexibility to partition the SoC design between the virtual or FPGA-based prototyping environments at the natural block-level boundaries of the AMBA interconnect. By using the software debug capability within the Virtualizer-based environment in a hybrid prototype, users have greater visibility and control into the register and memory files of the software under development compared to traditional FPGA-based prototyping.

"Hybrid prototyping offers design teams the best of what both hardware and software prototyping have to offer," said John Koeter, vice president of marketing for IP and systems at Synopsys. "By integrating the strengths of Virtualizer virtual prototyping with HAPS FPGA-based prototyping using the UMRBus physical link, Synopsys enables designers to develop fully operational SoC prototypes much faster and earlier in the design cycle, and accelerate software development and full system validation."

Hybrid Prototyping at DAC 2012

Synopsys will be demonstrating the integrated hybrid prototyping solution at DAC 2012, booth #1130. DAC takes place in San Francisco, CA June 3 – 7, 2012. For more information on Synopsys' participation at DAC 2012 visit www.synopsys.com/dac.

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