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## Acquisitions

### ***IBM to Acquire Green Hat; Software Testing in the Cloud Helps Customers Reduce Cost, Improve Quality***

4 January 2012

IBM announced a definitive agreement to acquire Green Hat, a leader in software quality and testing solutions for the cloud and other environments. Financial terms were not disclosed.

Founded in 1996, Green Hat is jointly headquartered in London, England and Wilmington, Delaware. Green Hat helps customers improve the quality of software applications by enabling developers to leverage cloud computing technologies to conduct testing on a software application prior to its delivery. Historically, to run simulation testing on a software program, a development team must construct an actual testing lab made up of both hardware and software. This time consuming and labor intensive process has become even more compounded with the short development cycle needed to compete in rapidly expanding markets such as those for smart phones and tablets. By using Green Hat's solutions, a virtual test environment can be set up in a matter of minutes versus weeks, and for a fraction of the cost.

According to recent industry reports, software testing represents more than 50 percent of overall development costs, and testing teams often spend upwards of 30 percent of their time managing the complexity of the test environment.<sup>1</sup> Green Hat creates a virtual environment that simulates a wide range of IT infrastructure elements, without the constraints of hardware or software services. This continuous test environment enables developers and quality professionals to test software earlier and more frequently throughout the software development lifecycle.

Upon the acquisition close, Green Hat will join IBM's Rational Software business. When combined with the [IBM Rational Solution](#) for Collaborative Lifecycle Management, developers and testers can achieve unprecedented levels of efficiency, effectiveness, and collaboration while delivering quality software to their business. IBM and Green Hat will help customers maximize continuous integration of an application, including creating virtual protocols, message formats, services, customization and engagement with third-party software. Development teams can avoid scrap and rework and reduce costly delays while achieving greater business agility and accelerating the delivery of software applications.

“This acquisition extends IBM's leadership in driving business agility and software quality by changing

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the way enterprises can manage software development cost, test cycle time and risk,” said Kristof Kloeckner, General Manager, IBM Rational. “Together, we offer the most complete solution available today for agile software development and testing, with flexible options such as the cloud. Green Hat’s application virtualization capabilities will help our customers accelerate their delivery of business critical software.”

“We’ve been focused on transforming our customers’ software development processes through innovative testing and quality improvements,” said Peter Cole, CEO, Green Hat. “We are looking forward to bringing Green Hat’s innovative application virtualization and continuous integration testing expertise to IBM customers who have a growing business need to better manage their complex testing environments.”

The Green Hat software testing solutions also will be offered through IBM Global Business Services’ Application Management Services (AMS). IBM AMS provides strategy, design, implementation, testing and managed services for application virtualization to accelerate customer results.

Green Hat is an automated testing technology leader, operating worldwide with a Global 2000 customer base. Green Hat makes automated testing simple for complex systems relying on Cloud, Web Services, messaging, SOA (Service Oriented Architecture), ESB (Enterprise Service Bus), BPM (Business Process Management), CEP (Complex Event Processing), SAP and other distributed technologies. Their diverse range of customers includes representation in financial services, telecommunications, healthcare, transportation and the energy industry.

For more information on Green Hat: <http://www.greenhat.com>

For more information on IBM Software: <http://www.ibm.com/software/rational>

1. National Institute of Standards and Technology,  
<http://www.nist.gov/director/planning/upload/report02-3.pdf>



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## ***Midwest SolidWorks Reseller, Computer Aided Technology Inc., Acquires Tridag Inc.’s SolidWorks Business in Missouri, Kansas and Illinois***

28 December 2011

Computer Aided Technology Inc. (CATI) announces further expansion with the acquisition of SolidWorks business from Tridag, Inc. Tridag clients in Missouri, Kansas and Illinois will have access to CATI’s comprehensive solutions to their product development challenges. As the oldest operating reseller of SolidWorks® software in North America, the goal of CATI has been to continuously improve the depth and breadth of support offerings available. In addition to SolidWorks Products and related value added services, such as training and support, CATI is proud to offer best-in-class 3D printing solutions from Objet, Ltd.

Tridag clients will have access to CATI’s support team and a variety of no cost resources to help expand their SolidWorks’ knowledge.

“The team at CATI has been serving manufacturing and engineering clients for the past 20 years. The additional products and services CATI has to offer will allow our clients to see immediate benefits and be successful for years to come,” said Tridag President Dick Longoria.

Tridag Inc.’s Kansas City, MO office will serve as the new home of CATI’s office and training center in

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Kansas City, serving clients in Kansas and the surrounding Kansas City area. Tridaq clients in Missouri will also have access to CATI's office and training center located in the St. Louis suburb of St. Charles, MO. CATI will be retaining all of Tridaq's Kansas City and St. Louis staff members.

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## CIMdata News

***“Evolving & Adapting, PLM Captures New Market” By Peter A. Bilello, President, CIMdata Inc.***

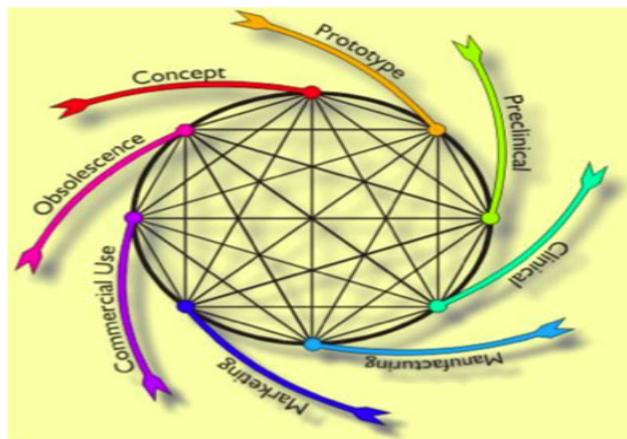
23 December 2011

Product Lifecycle Management (PLM) is expanding its technological impact into an extensive set of diverse new markets. Companies in pharmaceuticals, apparel, food and beverages, and consumer packaged goods as well as the architectural, civil engineering, and construction industries are implementing PLM solutions tailored to their needs. All of them expect the kind of PLM benefits that automotive, aerospace and other discrete manufacturing companies have enjoyed for years.

The flexibility of these new PLM solutions is further proof of PLM's maturity. They also reinforce its pivotal role in managing the organization's intellectual assets, i.e., the product knowledge, that is the wellspring of the future success of any enterprise.

In capturing these new markets, PLM solution suppliers are creating new capabilities, extending user interfaces, modifying workflows, and even tinkering with architectures. Specifics are still being hammered out, but the adaptability, flexibility, and scalability of PLM solutions have never been in doubt. In many cases these new PLM solutions are playing very different roles in these new markets, often in sharp contrast with “traditional” role of PLM in the design and manufacture of discrete parts and assemblies.

Production facilities in these new markets differ as greatly from one another as they do from discrete manufacturing. “Pharma” uses workbench-scale presses to squeeze powdered medicines into tablets. Apparel is pattern making, fabric cutters, and sewing machines meshed with seemingly endless global supply chains plus tight linkages to multiple retailers and wholesalers. Food and beverage plants are crammed with canning, bottling, and labeling machines-all of which is closely regulated.



Source: U.S. Food and Drug Administration

Fraser

For consumer packaged goods, simulating and analyzing shoppers' experience is a major source of

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product-related knowledge as well as a business driver; the Procter & Gamble implementation spells this out. The drivers of innovation in the other businesses also differ profoundly. Pharma relies on massive “doses” of biochemistry and regulatory compliance. Apparel depends on astutely discerning fashion trends. Food and beverage companies work constantly on new recipes, and on the traceability of what they sell-increasingly from farm to fork.

All PLM implementations span product development from front-end concepts through production and on to maintenance, support, logistics, distribution and eventual disposal. This means that PLM solutions link every part of the extended enterprise that is concerned with product development. With PLM, the links among hundreds of different workflows become transparent and collaborative.

As always, the basic PLM challenge is tracking and securing product knowledge as it is created anywhere in the organization and making it available to anyone who needs it, on demand. To be broadly effective, however, collaboration on a company's intellectual assets must run throughout the organization and beyond to suppliers, partners, customers, and increasingly to regulators.

There are dramatic differences among the industries in these new PLM markets. Their business drivers and what to them constitutes product knowledge are also quite different. Within discrete manufacturing, of course, business drivers and the makeup of product knowledge also vary, though within smaller boundaries. Accommodating differences among user organizations is nothing new for PLM.

Beneath it all, the basic PLM rationale remains unchanged. All these industries see PLM as an enabler for information gathering and managing that information effectively from concept to end of life. As a single source or single version of the truth, PLM solutions also empower the collaborative development of today's and tomorrow's products and do additional duty as platforms for knowledge capture and business analytics.

## **Pharmaceuticals**

The challenges of managing product knowledge in pharma include convoluted drug discovery processes and development that spans many years. Clinical trials must be closely monitored to retain information, and the knowledge gained during years of trials must be fully shared. The attention of regulators and the need to fully comply with their strictures are unceasing. So is the continuous analysis and verification required by the U.S. Food and Drug Administration (FDA) and its counterparts around the world.

PLM solutions in pharma offer continuous tracking of regulatory compliance and potential risks-while upgrading links between R&D, operations, and corporate strategies. PLM solutions also offer a powerful approach to extracting the inherent value in two major FDA initiatives:

- Quality by Design (QbD) includes traceability of every molecule in pills, liquids, and sprays as well as their purity. QbD also covers every component in production and testing equipment.
- Process Analytical Technology (PAT). PAT establishes continuous verification down to the size and shape of particles in powdered drug compounds. The FDA sees PAT as the path to right-first-time production and eliminating waste.

In addition, PLM solutions provide ways to help pharma manufacturers integrate regulatory requirements into their development processes, again using a single repository of product information. PLM solutions help with the crucial early identification of potential errors and conflicts. PLM is invaluable in the making of hundreds of timely decisions that optimize a drug's profitability throughout its lifecycle.

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These decisions are made in dozens of corporate functions that increasingly span the globe. With PLM solutions at hand, decision makers can drill down through many layers and types of data and information, some of it overlapping and some conflicting. Previously in pharma, these critical IP decisions were based on painstaking reviews of thousands of spreadsheets.

Pharma is taking PLM a long way beyond computer-aided design (CAD) and computer-aided engineering (CAE, mechanical simulation and analysis) where PLM first gained broad acceptance.

## **Retail and Apparel**

The differences between pharma and retail and apparel could hardly be larger yet PLM is gaining ground in both.

Pharmaceuticals are highly regulated because the consequences of even small failures can be tragic and fatal. In apparel, however, small failures are rarely noticed and may be inconsequential; fabric, trim, and measurement errors can be sold as “irregulars” (with big discounts). Very lightly regulated compared with pharma, apparel firms are at the mercy of fashion trends and even whims of the major retailers and their shoppers. Misreading fashion trends can have dire consequences.

In the retail and apparel industry, PLM solutions align suppliers so that seasons, departments, fashion collections and even specific styles meet corporate performance targets. Ideally these alignments go all the way down to the individual stores' stock keeping units (SKUs) that identify each variant in style, size, fabric, color, and trim. Adding to these complications is the fact that some retailers distinguish up to ten selling seasons through the year. Missing seasonal shipment dates can be dire, too.

PLM solutions in retail and apparel also effectively manage images-photos, artwork, flat sketches, color chips, and other media-in their native formats-along with patterns, colors, size charts, and measurements. These too are part of the product-related knowledge of retail and apparel.

On the “business” side of fashion, PLM solutions track the costs of fabrics, labor, energy, transportation, and merchandising costs. Also monitored closely are consumer spending, requests for quotations (RFQs) and samples; and even the Green movement, which has its own views on traceability. Bringing all this together in PLM helps move decisions closer to retailers and their customers.

## **Food and Beverages**

The food and beverage (F&B) industries share some PLM drivers with both pharma-strict regulation, for example-and with apparel, as tastes in food are also highly changeable.

In F&B companies, recipes, ingredients, labels, and nutritional statements, and packaging are all part of their product-related intellectual assets. Managing the ingredients information in PLM also offers the information necessary to respond quickly to product contamination issues-and to resolve them satisfactorily.

Food-borne illnesses cause losses of hundreds of millions of dollars every year. The risk of illness is a major, though far from the only reason for the nearly universal adoption of intelligent specification management (ISM) systems. ISMs create, manage, and optimize formulas and recipes, and are becoming the core of PLM implementations in F&B.

Industry standards like ANSI/ISA S88 and ANSI/ISA S95 have been incorporated into PLM solutions to help manage safety and regulatory compliance. Both automate data collection, and the more granular that data the better. S88 is a design philosophy of instrumentation, of the control of batch manufacturing processes (both manual and automated), and managing recipes. S95 is the standard for integrating

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enterprise and corporate-business functions with production control systems. S88 and S95 are themselves integrated. ISA refers to the Instrumentation, Systems, and Automation Society.

## Consumer Packaged Goods

Although generally inedible, the products of consumer packaged goods (CPG) companies comply with restrictions very similar to those of F&B. Perhaps the best expression of that business reality is what Procter & Gamble Co. in Cincinnati has accomplished. P&G's company-wide Corporate Standards System (CSS) includes over 1.2 million technical specifications. CSS covers more than 100,000 suppliers and the materials, formulations, processes, and packaging used throughout P&G. The company credits CSS with cutting months off the average time to get new products to market.

CSS offers compelling testimony to the scalability of PLM as well its flexibility and adaptability. A few large numbers tell the story:

- More than 12,000 P&G people use the system 24/7 to track every brand across all regions and business units.
- Some 9,000 of P&G's 127,000 employees worldwide work in R&D.
- Product-development data is entered a million times every day.

Given P&G's size, executives say that using CSS to accelerate time-to-market saves hundreds of millions of dollars per year. P&G makes, packs, and ships hundreds of thousands of different packages-detergents, soap, shampoo, cosmetics, toothpaste, batteries, shavers, and so on. It adds more every year. Total sales approach \$80 billion a year to several billion people.

## Architectural, Engineering, and Construction

The professions that comprise architectural, engineering, and construction (AEC) are taking yet another approach to PLM. They are blending traditional project management (CAD files and blueprints) with scheduling, simulation and analysis literally from the ground up with digital manufacturing to manage equipment and materials at the site and optimize the pace of work, with knowledgeware to capture best practices and ensure their use in future projects, and much more.

Successfully integrating these into an all-encompassing PLM strategy pays off in many ways. Well-implemented PLM helps with everything from gaining project approvals and securing funding and tracking regulatory filings-each with masses of documents and convoluted sign-offs)-tracking design changes and their "downstream" impacts, and coordinating the work of hundreds of subcontractors that use dozens of different CAx systems-all while staying on or ahead of schedule and within budget.

## PLM's Unchanging Rationale

Behind these developments, however, PLM's powerful rationale is little changed. As PLM solution suppliers offer new capabilities, more intuitive user interfaces, and more real-world workflows, PLM's potential benefits grow steadily. So do the opportunities PLM solutions present to users in developing the products of the future. As we noted at the outset, PLM solutions' adaptability, flexibility, and scalability have never been in doubt.

This article appeared in [ConnectPress CATIA Community](#),

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## Company News

### ***Anark Promotes Chris Garcia to Executive Vice President of Global Commercial Operations and Business Development***

5 January 2012

Anark Corporation, a leading provider of automated 3D CAD transformation and visualization solutions, announced the promotion of Chris Garcia to the position of Executive Vice President of Global Commercial Operations and Business Development.

In his new position, Mr. Garcia will further leverage his knowledge of Anark's products and solutions, along with his substantial experience within the CAD and PLM industry, to manage and grow the company's direct and channel sales activities, while continuing to form new strategic alliances and channel partnerships that are aligned with Anark's products, target customers, and overall company mission to enable their customers to leverage their 3D Design and Manufacturing data assets into easy to use and reuse Model Based Enterprise applications.

Mr. Garcia initially joined [Anark](#) in January of 2009 as Senior Vice President of Business Development, and is a distinguished executive from the mechanical design and manufacturing software industry, where he has extensive experience in global operations management, software product development, and new business development. During his three years as a member of Anark's executive team, he has successfully formed multiple high-impact strategic and channel partnerships, has been on the forefront of numerous key customer engagements, and has had a strong impact on the company's overall commercialization and growth strategy.

Prior to joining Anark, Mr. Garcia was Vice President of Research and Development at Dassault Systems SolidWorks Corporation, a position he held for 5 years. At SolidWorks, he led a staff of over 300 engineers located in offices spread over 6 countries, focusing on the research, development and release of the world class SolidWorks product offerings. In addition, Mr. Garcia spent much of his time leading the definition and optimization of the global software development processes and infrastructure utilized at SolidWorks today.

Prior to his tenure at SolidWorks, Mr. Garcia founded Xygent, a division of global manufacturing automation software provider Brown & Sharpe Inc. He has also held senior management roles at Tecnomatix Technologies Inc (the pioneers in the PLM industry), and was the founder of their Valisys software line of products (which are both now a strategic part of Siemens Teamcenter Suite of PLM Products). Mr. Garcia earned a master's degree in business administration at Santa Clara University, a bachelor's degree in computer science and general engineering from San Jose State University, and holds an accreditation from the MIT Sloan Executive Education program.

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### ***Applied Software Earns Autodesk Process Plant Specialization***

4 January 2012

[Applied Software](#) announced that it has earned the new Process Plant Specialization designation for value-added resellers from [Autodesk, Inc.](#) As an Autodesk Specialized Partner, Applied Software has shown that it has made significant investment in its people, has a solid business plan specific to its specialization area, has customer references and can provide a high level of expertise, experience and

support to customers in the AEC and manufacturing industries.

The new Autodesk Partner Specializations enable value-added resellers to highlight and brand their expertise in delivering services in key industry areas. By completing the required curriculum and training, as well as meeting required levels of service and standards set by Autodesk, Applied Software demonstrates through its strong customer service and support what it means to be a trusted adviser to Autodesk customers throughout the world.

"We're pleased to be recognized by Autodesk through the granting of its Process Plant Specialization designation," said Richard Burroughs, president, Applied Software. "With our Autodesk Gold Partner certification and an elite staff of Architectural, Mechanical and Plant Engineering experts, we are well-positioned to implement exceptional design and project management tools on-site and to train, service and support plant designers and engineers in the Southeast."

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## ***Intergraph® CADWorx® & Analysis Solutions Announces ICAS Knowledge Base Advisor Contest***

30 December 2011

Intergraph CADWorx & Analysis Solutions (ICAS) has launched the ICAS Knowledge Base Advisor Contest, inviting users to submit articles that explain common questions and their answers or solutions in the use of the company's software products, including CADWorx for intelligent 3D plant design and automation, CAESAR II® for the analysis and design of pipe and piping systems, PV Elite® for the design and analysis of vessels and exchangers, and TANK™ for the analysis and design of oil storage tanks. The Grand Prize will be \$2,000 with additional prizes of \$1,000 and \$500 in each product category. In addition, all winners will receive free registration to CADWorx & Analysis University 2012. Articles will be judged on their technical content and usefulness to customers.

For more information on the contest, including rules and a link for submitting articles, visit <http://coade.typepad.com/coadeinsider/2011/12/intergraph-cadworx-and-analysis-knowledge-base-advisor-contest.html>.

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## ***Latest Release Marks the 10th Anniversary of Maple T.A.; New adaptive questions provide powerful tool for teaching during testing***

4 January 2012

[Maplesoft](#)™ announced the release of the latest version of its testing and assessment tools. Maple T.A.™ was first released as a pilot project in 2002. Ten years later, Maple T.A. and the Maple T.A. MAA Placement Test Suite continue the tradition of providing major advancements to help institutions offer high quality technical education to their students.

Adaptive questions in Maple T.A. 8 give instructors a new tool to improve student comprehension. These questions give extra guidance to students who give an incorrect response to a question, increasing their understanding of the concepts and techniques involved. Knowing the student is having trouble, the question can be adapted to walk the student through the problem one step at a time, allow students to try a simpler version of the same question before retrying the original, or whatever the instructor feels is appropriate. As a result, adaptive questions give students the opportunity to deepen their understanding

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without leaving the testing environment, while at the same time giving them partial credit for their efforts.

Maple T.A. 8 also provides a secure Proctored Browser, which reduces cheating by ensuring students stay inside the Maple T.A. environment until the test or assignment is completed. While using the Proctored Browser, students cannot access other web sites or programs on their computer. Other security enhancements include the ability to require that Maple T.A. tests are taken from a specified list of IP addresses, to ensure students can take assignments only from approved computers or labs. These and other new Maple T.A. security features are also available in the Maple T.A. MAA Placement Test Suite, for those institutions who want greater security in their placement testing process.

“Maple T.A. has evolved rapidly over the last 10 years, with new question and assignment types, more ways to create, modify, and organize content, a sophisticated gradebook, additional options for integrating Maple T.A. into the rest of your infrastructure, and much more,” says Paul DeMarco, Director of Development for Maple™ and Maple T.A. “The latest releases of Maple T.A. and the Maple T.A. MAA Placement Test Suite continue the tradition of providing institutions with innovative methods to help them deliver effective, efficient mathematics and technical education to their students.”

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## ***PTC Partners with Qimpro to Extend its Product Lifecycle Management Solution***

29 December 2011

PTC announced its partnership with Qimpro Consultants Private Limited, a pioneer in Quality Lifecycle Management in India. PTC has designated Qimpro as its authorized reseller for Windchill Quality Solutions and is in the process of signing the agreement for Authorized Training Partnership. Through this association, PTC will offer Windchill Quality Solution to Qimpro's clients to empower them with modern quality management and cross-functional visibility into product information.

Commenting on this alliance, Mr. Rafiq Somani, Area Vice President and Country Manager, PTC said, "We are pleased to partner with Qimpro to expand our footprint in the strategic production and quality management process. Windchill enables users to streamline processes and product quality management and improvement, by preventing repetitive errors and building reliability and risk management into the product development lifecycle, across cross functional teams. Our partnership with Qimpro reemphasizes our commitment to end to end product development efficiency."

Mr. Suresh Lulla, Managing Director of Qimpro stated, "We are happy to partner with PTC to bring state of the art quality management solutions to our customers. Quality Lifecycle Management is an integral part of Product Lifecycle Management. This partnership will bring together the core competencies of PTC (PLM) and Qimpro (QLM) that will allow end customers to achieve product excellence through Quality by Design. The alliance will introduce IT enabled, value added services to the product development process."

### **About Qimpro Consultants Private Limited**

Qimpro Consultants Private Limited (Qimpro), established in 1987, offers services that range from process improvement, to business performance excellence, to benchmarking of best practices. Qimpro is currently involved in designing a global benchmarking award for the Global Benchmarking Network. Over the past two and a half decades, Qimpro has helped in excess of 400 clients to conduct over 5,000 improvement projects and thereby save significantly more than Rs 10,000 crores. Their professional

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services range from conduct of assessments; to facilitating transformation; to training, coaching and counseling.

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## ***PTC's Support for FIRST® is Cornerstone of Corporate Social Responsibility Program***

5 January 2012

Answering the call to promote science, technology, engineering, and math (STEM) educational opportunities, PTC announced its continued support of *FIRST*® (For Inspiration and Recognition of Science and Technology) and the *FIRST*® Robotics Competition (FRC®). Building on previous years of support, PTC will sponsor over 85 FRC teams, 23 *FIRST*® Tech Challenge (FTC®) teams, and 14 *FIRST*® LEGO® League teams during the current 2011-2012 season.

Jim Heppelmann, president and CEO, PTC will speak at the 2012 FRC Kickoff event on January 7 where this year's FRC game will be unveiled during a live broadcast to tens of thousands of worldwide participants on [NASA TV](#) 10:30 a.m. Eastern Time.

"PTC is a fantastic Strategic Partner of *FIRST*. As a company, they are fully committed to the values of *FIRST* and share our goal of helping students develop skills to become tomorrow's innovators and engineers," said Jon Dudas, president, *FIRST*. "PTC provides the same CAD and Collaboration software for students used by more than 27,000 global manufacturing companies, allowing students to develop the engineering skills that are in high demand."

Reaching more than 294,000 students in grades K-12 annually, *FIRST* has designed accessible mentor-based STEM programs. These programs inspire young people to think, design and create something physical using their engineering knowledge and skills. As a Strategic Partner to *FIRST*, PTC provides free software, including *Creo*®, *Mathcad*® and *Windchill*®, to all participating *FIRST* teams. Offering *Windchill* in the cloud to *FIRST* FRC and FTC teams since 2008 has allowed thousands of students to collaborate on their designs anytime, anywhere.

"The robot and the game are complicated, which requires The Buchanan Bird Brains, Team #1671, to put in place a real-world design and collaboration process in order to create a product under the pressure of time and competition. PTC and *FIRST* create an experience for the students on this team to develop life-long skills that are critical for their success," said Paul Lake, *FIRST* Robotics Coach, Buchanan High School.

"The design and build timeframe for the 2012 FRC season is a fast-paced six weeks," said Robin Saitz, SVP, solutions marketing & communications and *FIRST* Executive Sponsor, PTC. "These six weeks provide some of the most intense, valuable training for these students as they learn how to work together as a team to deliver a functional robot for competition. PTC is a proud, strong supporter of *FIRST* because we consider *FIRST* to be one of the best investments we can make in the future."

FRC teams sponsored by PTC include:

**The Buchanan Bird Brains, #1671**  
Buchanan High School  
Clovis, CA  
<http://www.brt1671.com/2012/index.php>

**Chicago Knights, #1739**  
City-wide high school participants  
Chicago, IL  
<http://www.chicagoknights1739.org/>

**Holland Chaos, #74**

**King TeC, #2169**

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Holland High School  
Holland, MI  
<http://www.hollandchaos.com/>

**Mechanical Mayhem, #1519**  
Milford Area Youth Homeschoolers  
Milford, NH  
<http://mechanicalmayhem.org/>

FTC teams sponsored by PTC include:

**The Bounty Hunters, #2864**  
St. Clare's School  
Staten Island, NY  
<https://sites.google.com/a/stclaresi.com/science-enrichment-programs/staten-island-robotics/ftc---high-school-1>

**Milton Wildcats, #5090**  
Milton High School  
Milton, MA

**Watt the Hex, #4311**  
Say Watt Robotics  
Edison, NJ  
<http://watt-the-hex.org/>

## Additional Resources

[Community Relations - Inspiring the Next Generation of Engineers \(web site\)](#)

[PTC and FIRST \(web site\)](#)

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## ***Symetri Appoints Fulthorpe to Head Up New Consulting Services Wing***

4 January 2012

To meet growing market demand Symetri has launched a new business unit, Symetri Consulting Services.

The objective is to provide a more structured approach to the delivery of consulting services to customers, enabling them to optimise their use of Autodesk software and more clearly understand how it maps onto engineering design processes.

The new service will be headed up by Michael Fulthorpe, who takes on the role of business development director, Symetri Consulting Services. Fulthorpe previously spent five years working for Autodesk: first as a channel manager in the manufacturing division and then in Autodesk's major accounts team. He began his career at Imass (now Symetri), where he was latterly business development manager.

Prior Lake High School  
Prior Lake, MN  
<http://kingtec2169.com/>

**Rosie Robotics, #839**  
Agawam High School  
Agawam, MA  
<http://rosie.agawamrobotics.org/>

**Metal Menace, #760**  
LAUNCH Robotics  
Broomfield, CO

**Minotaur, #1369**  
Middleton High School  
Middleton, FL  
[http://middletonrobotics.com/?page\\_id=6](http://middletonrobotics.com/?page_id=6)

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According to Fulthorpe, “we are seeing growing demand from customers of design software solutions across the manufacturing sector for a more consultative approach to the deployment and integration of this kind of technology. In setting up Symetri Consulting Services, we want to help customers fully understand their design software and optimise their usage of it. Doing this will, in turn, enable them to get their products and services to market more quickly.”

The new Symetri Consulting Services business stream will initially focus on several key areas: the integration of engineering data management systems with other downstream business systems such as ERP/MRP; helping customers adopt sales configurators or Engineer to Order Systems (ETO); Autodesk cloud based services and the implementation of dynamic simulation, CFD and FEA processes into customers engineering design workflows.

Fulthorpe says, “these are major areas where we are seeing growing demand from customers for a more consultative approach. This will involve delivering consultancy around areas like systems integration, capturing project specifications and testing technology using digital prototyping. The ultimate goal is to help the customer use technology as effectively as possible to drive business and operational efficiencies throughout the organisation.”

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## ***2012 North American Car of the Year Finalists All Developed in Dassault Systemes' CATIA***

6 January 2012

Dassault Systemes announced that the six finalist vehicles in the 2012 North American Car/Truck of the Year (NACTOY) awards were all developed using CATIA. The finalists within the car category are the Ford Focus, Hyundai Elantra and Volkswagen Passat, while the truck finalists are the BMW X3, the Honda CR-V and the Land Rover Range Rover Evoque.

The NACTOY awards are unique in the United States since they are given by a coalition of no more than 50 automotive journalists from the United States and Canada, representing magazines, television, radio, newspapers and Web sites, and not by a single media outlet. The awards are financed by the jurors' dues and NACTOY does not accept advertising from automakers.

To be eligible, a vehicle must be completely new or substantially changed. The intent is to select a car and a truck that establishes new benchmarks in the classes in which they compete. Jurors evaluate the vehicles on factors including value for the dollar, innovation, handling, performance, safety and driver satisfaction.

After considering dozens of vehicles this year, the jurors finally voted on 17 cars and seven trucks, which were then narrowed down to three in each category. The jurors will now vote again on these three finalists. The winner of each category will be announced on Monday, January 9 at 7:15 a.m. EST, the opening press day of the North American International Auto Show.

Dassault Systemes' latest Version 6 is an open and scalable platform that enable automakers to collaborate across their global enterprise and supply chain, allowing for innovative practices while providing full traceability throughout the vehicle lifecycle. Users can simulate how vehicle will perform, be built and experienced by the customer before making any capital investment.

For more information on Dassault Systemes automotive solutions, visit <http://www.3ds.com/automotive>

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## Events News

### *BWIR To Demonstrate How EPDM+ Increases Multi-fold Productivity at SolidWorks World 2012*

19 December 2011

Barry-Wehmiller International Resources (BWIR) has announced plans to participate in the SolidWorks World 2012 international user conference and exposition, Feb. 12 - Feb 15, 2012 at the San Diego Convention Center in San Diego, California, USA. Senior BWIR professionals will be available throughout the show to discuss how Value Added Resellers (VARs) can increase their multi-fold productivity using custom built Enterprise Product Data Management Add-ins (EPDM Add-ins) developed by BWIR.

Christened as EPDM+, this set of ready-to-use add-ins offers solutions to many challenges faced by Enterprise Product Data Management (EPDM) users. BWIR EPDM experts have identified six functions that address these challenges across the product development cycle through custom-built packages that can assist many engineering organizations to unleash the complete potential of the EPDM tool.

BWIR and SolidWorks have nurtured a strategic business partnership over the past 10 years that has included an award for Best User Group in 2008 as well as the rare honor of BWIR hosting the SolidWorks 2008 Regional Technical Summit in Chennai, India, the only event of its kind held outside of the U.S. Continuing this tradition, BWIR was selected to give presentations at SolidWorks World 2012, focusing on Document reference validation tools.

With more than a decade of experience helping global organizations achieve successful and lasting engineering transformation, BWIR empowers manufacturing companies to meet dynamic customer requirements using efficient engineering processes and technology-enabled business solutions that deliver strong business benefits. By automating repetitive tasks, componentizing standard jobs, pre-building and optimizing existing resources, BWIR enables its customers to achieve a competitive advantage through accelerated engineering productivity and faster time-to-market.

“The diverse range of products designed using 3D engineering tools like SolidWorks continues to grow at an incredible pace,” commented Jim Webb, BWIR Vice President and Senior Partner, Global Engineering Solutions. “The SolidWorks user conference is a tremendous opportunity for BWIR to showcase its EPDM & engineering skills and to share experiences with SolidWorks users from around the globe.” For more information or to schedule an appointment, please visit booth # 105 or contact Jim Webb at (314) 862-8000 or [jim.webb@bwir.com](mailto:jim.webb@bwir.com).

#### **About Barry-Wehmiller International Resources**

Barry-Wehmiller International Resources (BWIR) is part of the consulting division of Barry-Wehmiller Companies, Inc. With headquarters in St. Louis, Missouri, and offices worldwide, BWIR offers the combined benefits of the advanced technology and dependability of a U.S. company with the affordability of distributed operations.

#### **About Barry-Wehmiller**

Barry-Wehmiller Companies, Inc. is a diversified global supplier of engineering consulting and manufacturing technology solutions in packaging, corrugating and paper converting across a broad spectrum of industries. Barry-Wehmiller’s balanced approach to the market is made possible through nine interactive divisions: Accrply, Inc., a leading manufacturer of automatic labeling and label

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converting and finishing systems; Barry-Wehmiller Design Group, Inc., a premier supplier of manufacturing automation, facility design, and other engineering consulting services; Barry-Wehmiller International Resources (BWIR), a global provider of business and technology solutions to the mid-market manufacturing domain; FleetwoodGoldcoWyard, Inc., a leading producer and supplier of automated can end and product handling equipment, advanced conveyance technology, palletizers, depalletizers, and process equipment; HayssenSandiacre, a form/fill/seal technologies and services leader for more than 100 years; MarquipWardUnited, Inc., a leading manufacturer of equipment for the corrugated and folded carton industries; Paper Converting Machine Company (PCMC), providing high-performance converting machinery for the global tissue, nonwovens, package printing, and envelope manufacturing industries; PneumaticScaleAngelus, a global provider for filling, capping, can seaming, labeling, and centrifugation; and Thiele Technologies, Inc., a leading producer of placing, feeding, bagging, cartoning, case packing, robotic, premade bag and pouch, and palletizing equipment.

In fiscal year 2010, Barry-Wehmiller leveraged a strategic combination of organic and acquisition growth to achieve revenues surpassing \$1 billion. Barry-Wehmiller now employs more than 5,500 team members in over 65 locations worldwide.

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## ***Delcam PartMaker Schedules User Meetings for 2012 Release***

3 January 2012

Delcam's PartMaker division has scheduled two user group meetings to update customers on the developments in PartMaker 2012, the latest version of its CAM system for turn-mill centres, bar-fed mills and Swiss-type lathes.

The first meeting will be held on January 26th at the Holiday Inn in Fort Washington, Pennsylvania, close to the PartMaker headquarters, with the second on February 16th at the C&A Tool facility in Auburn, Indiana. C&A Tool has been using PartMaker since 2001 and was recently named the "Best Job Shop in America". Further details and booking forms can be found at

<http://www.partmaker.com/2012usergroup%20and%20www.partmaker.com/midwestusergroup>.

The main focus of the meetings will be the many developments in PartMaker 2012. Major highlights of the release include improved visualisation, more powerful simulation of vertical and horizontal machining centres, support for the latest breed of multi-axis bar-fed mills, turn-mill centres and Swiss-type lathes, greater flexibility and control in process development and much, much more.

Details will also be presented on the latest version of the PowerSHAPE CAD companion for PartMaker, which includes functionality for creating solid models, data repair, editing part designs for manufacture, and for the design of machining accessories, such as tool holders and machine components. The 2012 release includes a range of direct modeling options, to complement the existing solid and surface modeling capabilities.

At both meetings, senior technical personnel from PartMaker will be on hand to answer delegates' technical questions, as well as to discuss the future of PartMaker's development efforts and to listen to users' input to incorporate into future versions. A complimentary catered breakfast and lunch buffet will be provided to all registered attendees.

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## ***Delcam to Show Latest in CAD/CAM for Composites at JEC***

5 January 2012

[Delcam](#) will demonstrate the latest developments in its PowerSHAPE design software and PowerMILL machining system at the JEC exhibition to be held in Paris from 27th to 29th March. Both programs are already used extensively in the marine, aerospace, rail and wind energy sectors of the composites industry for the design and manufacture of models, patterns, moulds and fixtures for component manufacture, and for the finish machining of parts.

The major change to the 2012 release of PowerSHAPE is a range of direct modelling options. Unlike other programs that have incorporated direct modelling as part of a product design system, the PowerSHAPE options are focussed on design for manufacture, in particular on preparing product designs for the development of moulds and other types of tooling.

The new functionality will enable tooling designers to tackle all the common problems that they find in product designs, such as insufficient draft or inappropriate fillet sizes. Direct modelling is faster to use than surface modelling and so can shorten the overall time needed to produce tooling designs. Together with the extensive data translation and data repair options already available in PowerSHAPE, the addition of direct modelling gives a unique range of capabilities to designers developing composite tooling.

The 2012 version of PowerMILL includes a number of new strategies, together with more general enhancements to make programming faster and machining more efficient with the best-possible surface finish. The most important new option is flowline machining, where the toolpath is divided between a pair of drive curves in a constant number of passes, rather than having a varying number of passes with a constant stepover. The toolpath will have its start and end passes on the drive curves, with the intermediate passes blending between them.

This approach gives smoother results since it ensures that each pass travels over the full length of the area, rather than leaving the part or making major changes in direction during the pass. It produces a better surface finish on the part and minimises wear on the cutter and the machine tool.

Another important new option is the ability to control the angular point distribution during five-axis machining. This option can be used to keep the machine tool moving smoothly when there is rapid angular change in one of the rotary axes of the machine tool by increasing the density of the points in these areas.

The user can specify the maximum angle that the tool axis can move between points. Extra points are inserted automatically to ensure the specified maximum angle is not exceeded. This gives a more even movement of the machine and so gives a better surface finish, with no risk of dwell marks. The smoother motion also reduces wear on the machine.

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## ***ProSTEP iViP, Be Smart: Drive Systems Engineering***

4 January 2012

On 15 December 2011 nearly 70 experts from industry and research came together, to discuss and sharpen ProSTEP iViP's newest project proposal "Smart Systems Engineering". The participants agreed that time is right for such an initiative.

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The event was opened with an introduction of the major findings of the latest market study conducted by ProSTEP iViP. The statements were clear: To apply systems engineering in industry, smart methods and tools are needed. One has to find and to close the gaps hindering a pragmatic application of systems engineering today. Smart collaboration standards are needed rather than creating another super-standard. Aim is not invent the wheel anew. Aim is to learn from lessons and benefit through innovative approaches. As Edison did before: He did not invent the bulb, he ‘just’ created a solution that works.

The ProSTEP iViP Project “Smart Systems Engineering” is scheduled for two years and will start from 2012 on. In the first project phase interaction scenarios between manufacturers and their suppliers will be specified. In an iterative approach necessary methods and interfaces will be elaborated. At the end demonstrators will be provided.

## About the ProSTEP iViP

AssociationProSTEP iViP Association bundles the interests of manufacturers and suppliers in the manufacturing industry as well as IT vendors, in close cooperation with research and science institutes, to provide its members with the long-term competitive advantages that more efficient processes, methods and systems enable. Today, the ProSTEP iViP Association remains committed to developing new approaches to end-to-end process, system and data integration for its members and providing digital support for all the phases of the product creation process. Members of the ProSTEP iViP Association currently include about 160 companies and organizations from 17 nations. For more information on ProSTEP iViP, please visit <http://www.prostep.org>.

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## Financial News

### *Autodesk to Webcast its Special Meeting of Stockholders*

30 December 2011

**What:** Autodesk, Inc. announced that it will broadcast its special meeting of stockholders live via its website on Friday, January 6, 2012 at 10:00 a.m. Pacific Time.

**Details:** A live webcast and audio archive will be available on <http://www.autodesk.com/investors>.

**Contact:** For more information, please call Autodesk Investor Relations at 415-507-6705.

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### *Mentor Graphics President, Gregory K. Hinckley, to Present at the 14th Annual Needham Growth Conference*

6 January 2012

[Mentor Graphics Corporation](#) announced that Gregory K. Hinckley, President, will present at the 14th Annual Needham Growth Conference in New York.

**Who:**

Gregory K. Hinckley, President of Mentor Graphics

**When:**

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Tuesday, January 10, 2012, 1:30 pm Eastern Time

**Where:**

The New York Palace, New York, NY

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## ***OpenText to Report Second Quarter Financial Results on Wednesday, February 1, 2012***

6 January 2012

Open Text™ Corporation announced that financial results for its second quarter fiscal year 2012 will be released on Wednesday, February 1, 2012 at approximately 4:00 p.m. ET.

**Teleconference Call**

OpenText will host a conference call on February 1, 2012 at 5:00 p.m. ET to discuss its financial results.

**Date:** Wednesday, February 1, 2012

**Time:** 5:00 p.m. ET/2:00 p.m. PT

**Length:** 60 minutes

**Where:** 416-644-3414; 800-814-4859 (Toll Free)

Investors should dial in approximately 10 minutes before the teleconference is scheduled to begin. A replay of the call will be available beginning February 1, 2012 at 7:00 p.m. ET through 11:59 p.m. on February 15, 2012 and can be accessed by dialing 416-640-1917 and using passcode 4502362 followed by the number sign. For more information or to listen to the call via web cast, please use the following link: <http://www.opentext.com/2/global/company/investors/ir-events.htm>

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## ***PTC to Host FY'12 Investor Day in New York City On Tuesday, February 7, 2012***

4 January 2012

PTC announced that management will host its FY'12 Investor Day on Tuesday, February 7, 2012 from 9:00am to 4:00pm (ET). This event will be held at the InterContinental Hotel New York Times Square. To register, please contact Kristen Whoriskey at 781-370-5689 or [kwhoriskey@ptc.com](mailto:kwhoriskey@ptc.com).

**What:** PTC FY'12 Investor Day

**When:** Tuesday, February 7th from 9:00am to 4:00pm (ET)

**Webcast:** <http://www.ptc.com/for/investors.htm>

**Replay:** The audio replay of this event will be archived for public replay until February 13, 2012 at <http://www.ptc.com/for/investors.htm>.

The presentations will include management's discussion of PTC's business and outlook, which may include material projections and other forward looking statements regarding PTC's anticipated financial results and growth, as well as the development of PTC's products and markets and other future events. Please note that statements made in the presentation are as of the date of the presentation and PTC does not assume any obligation to update any statements made or the archived presentation. In addition, any

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forward-looking statements about PTC's anticipated financial results and growth, as well as about the development of products and markets, are based on current plans and assumptions. Actual results in future periods may differ materially from current expectations due to a number of risks and uncertainties, including those described from time to time in reports filed by PTC with the U.S. Securities and Exchange Commission, including PTC's most recent reports on Form 10-Q and Form 10-K.

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### ***PTC to Speak at the 14th Annual Needham Growth Conference on Tuesday, January 10th, 2012***

4 January 2012

PTC announced that management will speak at the 14th Annual Needham Growth Conference in New York City on Tuesday, January 10th at 1:30pm (ET).

**What:** PTC to present at the 14th Annual Needham Growth Conference

**When:** Tuesday, January 10th at 1:30pm (ET)

**Webcast:** <http://www.ptc.com/for/investors.htm>

**Replay:** The audio replay of this event will be archived for public replay until 4:00 pm (CT) on January 13th, 2012. To access the replay via webcast, please visit <http://www.ptc.com/for/investors.htm>.

Please note that statements made at the conference are as of the date of the conference and PTC does not assume any obligation to update any statements made live or the archived call. Matters discussed may include forward-looking statements about PTC's anticipated financial results and growth, as well as about the development of products and markets, which are based on current plans and assumptions. Actual results in future periods may differ materially from current expectations due to a number of risks and uncertainties, including those described from time to time in reports filed by PTC with the U.S. Securities and Exchange Commission, including PTC's most recent reports on Form 10-Q and Form 10-K.

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### ***SofTech Re-registers with the SEC as a Fully Reporting Public Company***

3 January 2012

SofTech, Inc. today announced that it has reregistered its common stock with the Securities and Exchange Commission ("SEC") and, as a result, the Company is subject to the full reporting requirements applicable to a public company. This re-registration was accomplished through the filing of Form 8-A in connection with the Company's previously filed Form S-1 resale registration statement being declared effective by the SEC on December 28, 2011. The Company had been subject to the public reporting requirements until it deregistered its common stock in August 2010. Since the March 2011 recapitalization transaction, a key objective for the new management team has been to re-establish SofTech as again being subject to the full SEC reporting requirements.

"Another important objective that we have devoted considerable time and attention to since the transaction is enhancing our existing business by identifying profitable new revenue streams to complement it. We are making great progress against this goal and look forward to reporting our results"

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With the filing of its audited financial statements for the fiscal year ended May 31, 2011 and the unaudited results for the three months ended August 31, 2011, each included in the effective Form S-1, and re-registration of its common stock with the SEC, the Company has upgraded its marketplace tier in the OTC Markets from the OTC Pink marketplace tier to the OTCQB tier. Since August 2010 the Company had been listed on the OTC Pink marketplace tier under the subcategory of Limited, a category for investments of a speculative nature. The OTCQB marketplace tier is composed only of companies that timely report to the SEC or a U.S. banking or insurance regulator.

“Regaining our public status, upgrading our listing marketplace tier and getting current financial information about our Company released in a timely manner, was one of the most important objectives of the new management team since the March 2011 recapitalization transaction,” said Joe Mullaney, President and CEO of SofTech. “Another important objective that we have devoted considerable time and attention to since the transaction is enhancing our existing business by identifying profitable new revenue streams to complement it. We are making great progress against this goal and look forward to reporting our results,” he added.

The Company’s operating results for the second fiscal quarter ended November 30, 2011 will be filed on a Form 10-Q with the SEC on or before January 17, 2012.

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### ***Synopsys CEO Aart de Geus to Speak at 14th Annual Needham Growth Stock Conference***

3 January 2012

Synopsys, Inc. announced that Aart de Geus, Chairman and CEO, will speak at the 14th Annual Needham Growth Stock Conference in New York on January 10, 2012.

This event will be broadcast live on the Internet via the Synopsys corporate website at <http://www.synopsys.com/Company/InvestorRelations> on Tuesday, January 10, 2012 at 8:00 a.m. ET (5:00 a.m. PT). To access the live webcast presentation, please go to the website at least ten minutes early to register and to download and install any necessary multimedia software. The webcast replay of the presentation can be accessed at the Synopsys corporate website approximately ten minutes following the conclusion of the live event.

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## Implementation Investments

### ***Bimba Looks to Boost Sales with Online 3D Configurator***

5 January 2012

[Bimba Manufacturing](#) and [PARTsolutions, LLC](#) announced the launch of the new Bimba online 3D CAD product catalog. Bimba has replaced its online catalog with advanced [3D CAD and product configuration technology](#) powered by PARTsolutions. With the new state-of-the-art digital parts catalog, Bimba will more effectively meet the needs of its customers.

[Click here](#) to view a video of the Bimba 3D configurator in action.

Bimba's new 3D digital parts catalog empowers design engineers to access and configure high-quality product data and 3D models that can be instantly downloaded in more than 150 native and neutral CAD

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and graphic formats. This significantly shortens design time and improves the total customer experience with rich visualization and real-time configuration capabilities. The new technology makes it much easier for engineers to "design in" Bimba's parts directly into their products.

"We're all about providing the best total experience for our customers. By providing the best tools and technology available, we're making it easier for design engineers to obtain the right product when they need it," said Tom Wood, Bimba Marketing Manager.

Bimba previously made some of its product's CAD drawings available online, but due to market advances and customer demand the company commits to a more sophisticated technology platform. After evaluating technology providers, Bimba selected PARTsolutions based on its expertise, ease of use, stunning visual graphics, as well as its ability to provide hundreds of native CAD file formats and a solution that runs across multiple web browsers and devices.

See the Bimba digital product catalog and 3D configurator at <http://www.bimba.com>

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## ***Donkervoort Automobielen BV Improves Design, Cuts Costs with SolidWorks Simulation***

4 January 2012

Different automotive brands stand for different values, such as efficiency, luxury, speed and performance. [Donkervoort Automobielen BV](#), a Dutch automotive manufacturer, increasingly relies on SolidWorks® advanced 3D design and simulation tools in its quest to produce the perfect sports car. This value was on display on December 17 when Donkervoort unveiled the newly designed model [D8 GTO](#).

By incorporating [SolidWorks Flow Simulation](#) and [SolidWorks Simulation Premium](#) to its existing SolidWorks package, Donkervoort created a single CAD environment for the redesign of its D8 GTO model, ensuring total integration of the design and simulation process. Donkervoort focuses on sports cars that are hand built, lightweight, high performance and perform like Formula One racecars, even though they look like classic roadsters.

Redesigning the engine to develop power resulted in added weight in the D8 GTO, causing Donkervoort to rework the body. The company turned to SolidWorks 3D Computational Fluid Dynamics (CFD) and advanced structural simulation solutions to ensure performance while staying on budget and delivering the car on schedule.

Donkervoort tackled several different challenges during the redesign, including optimizing intake manifolds and engine airflow and resolving open-wheel aerodynamic challenges. The company created a hybrid carbon fiber-tubular steel chassis to add strength while minimizing weight that held up to simulated testing for force, stiffness, crash and impact. The design team added wings to the rear fenders to increase down force and traction.

"Donkervoort's auto redesign shows the type of creativity and problem solving that SolidWorks is designed to empower engineers to achieve," said Stephen Endersby, product manager, simulation at Dassault Systèmes SolidWorks Corp. "By using simulation to solve design challenges, Donkervoort's design team circumvented costly and time-consuming steps on the path to unveiling the optimal product."

The results speak for themselves. Using SolidWorks Simulation, Donkervoort was able to cut the number of prototypes required by 50 percent, increase product sophistication, improve aerodynamics

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and performance and introduce structural innovation in sports car design.

“We chose SolidWorks Simulation because it provided all of the analysis capabilities that we need in a single design environment,” said Jordi Wiersma, head of design and engineering for Donkervoort. “CAD integration is a must. We had experience working with outside consultants who used other analysis tools. We often spent more time integrating analysis results into our CAD system than we did applying those results to our designs. Working in a single environment enables us to more efficiently use simulation while we design and apply these insights to our design concepts in real time.”

Donkervoort relies on authorized SolidWorks reseller [CADMES BV](#) for ongoing software training, implementation and support.

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## ***fe-safe™ Helps Automotive Specialist Optimize Designs for High Temperature Fatigue Life***

January 2012

[Safe Technology Ltd](#) announces that Flexider Automotive (Italy) has selected fe-safe™ durability analysis software to perform advanced fatigue analysis on automotive components for leading car manufacturers including Audi, Ferrari, Fiat Group, Iveco and Volkswagen.

Flexider Automotive, an IMCI Company, is a pioneer in the mass production of metallic decoupling flexible elements for gas exhaust systems for passenger cars and light commercial vehicles. The company has developed, in collaboration with major car manufacturers, a new generation of damped flexible couplings capable of overcoming the issues caused by the use of catalytic converters on the whole exhaust system.

fe-safe™ from Safe Technology is a comprehensive suite of fatigue analysis software for Finite Element models. It is used to accurately calculate from FEA, where and when fatigue cracks will occur, the factors of safety on working stresses (for rapid optimisation) and the probability of survival at different service lives (the 'warranty claim' curve). Flexider automotive engineers will use fe-safe™'s thermo-mechanical fatigue analysis capabilities to calculate the effects fatigue on flex pipes or decoupling elements.

"These days, simply 'over-designing' a component by adding more material in order to extend fatigue life is not an option. The adoption of fe-safe™ allows for component designs to be tweaked and optimized at the virtual design stage, thus reducing the costly and time-consuming 'design-test-redesign' cycle", said Giuseppe Ruggiero, Durability Test Engineer, Flexider. "We were impressed by the user-friendly interface in fe-safe™, allowing easy and efficient input of data. There is a comprehensive materials database included and methodologies can be selected by the engineer to build up a powerful and personalised analysis tool".

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## ***Leading Memory Manufacturer Endorses Proteus LRC for Lithography Verification***

3 January 2012

Synopsys, Inc. announced the endorsement of Proteus lithography rule check (LRC) at Nanya Technology Corporation, a member of the Formosa Plastics Group and a global leader in advanced memory semiconductors focusing on research and development, design, manufacturing and sales of

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DRAM products. Industry-leading accuracy is achieved through the combined use of production-proven Proteus compact models and the integrated Sentaurus Lithography rigorous simulation engine. Proteus LRC provides production tapeout departments at integrated circuit (IC) manufacturers with full-chip lithography verification that identifies yield-limiting hotspots prior to manufacturing, thus minimizing the risk of costly re-spins and improving time to market.

"The competitive DRAM market requires efficient processing to meet aggressive product delivery schedules," said Chiang-Lin Shih, deputy director of the Advanced Technology Development Division at Nanya Technology. "The dependable accuracy and consolidated hotspot reporting provided by Proteus LRC enable us to efficiently identify and resolve issues while improving our time to market."

Proteus LRC delivers a highly accurate and comprehensive lithography verification solution through an extensive set of standardized checks as well as specialized checks designed to address the latest double patterning technology (DPT) processing challenges. For easy deployment and dependable accuracy, all check functions use the same industry-proven compact models utilized by Proteus optical proximity correction (OPC). In situations where borderline hotspots require the added insight of resist profile and topography effects, Proteus LRC utilizes the embedded Sentaurus Lithography simulator providing full check capabilities with first principle physics-based models. The balance of compact and rigorous models combined with comprehensive check functionality offers unmatched accuracy without compromising turnaround time (TAT).

Proteus LRC is built on the Proteus engine and is integrated into Synopsys' Proteus Pipeline Technology, enabling a single flow solution from design tapeout to mask fracture. The Pipeline Technology delivers the best TAT by utilizing concurrent processing at all stages of the mask synthesis and fracture flow to improve efficiency of I/O handling and CPU utilization. The Proteus engine provides an industry-proven platform that is highly scalable to hundreds, even thousands of standard x86 CPUs, enabling fast TAT while maintaining the lowest cost of ownership.

"Semiconductor companies like Nanya require a predictable and accurate verification solution they can trust to identify potential issues early in their flow," said Howard Ko, senior vice president and general manager of the Silicon Engineering Group at [Synopsys](#). "Proteus LRC delivers industry-leading accuracy while maintaining a low cost of ownership and highly competitive turnaround time."

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## ***No Chickening Out With Alphacam (Customer Case Study)***

3 January 2012

A CNC routing specialist knew exactly what the menu needed for cooking up a perfect wall and stair feature at a Nando's restaurant.

When the chicken restaurant franchise called on The Cutting Room to create a unique talking point at its Brent Cross Shopping Centre outlet, the company, based in Huntingdon, Cambridgeshire, created the perfect recipe for success.

The main ingredients were 96 sheets of fire-rated Pippy Oak-veneered Medium Density Fibreboard, an Anderson Duo CNC router with twin 1600 x 1600mm beds and two heads with 8-station tool auto changers, and Alphacam – a CAD/CAM solution for the woodworking industry.

"We were given a 2D dwg model, and created a 3D model which was readily imported into Alphacam," says Cutting Room partner Mark Durey. "We worked on a total of 96 sheets of MDF to produce the

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three complete faces – the ceiling, the stair wall, and a double-sided wall to hold the condiments.”

The job was broken down into manageable sheet sizes and nested in Alphacam, which also quickly and easily produced accurate CNC code. The panels were then cut out with holes being correctly placed for interconnecting the sheets, and finally sealed with the fire-rated lacquer ready for installation.

Although The Cutting Room used their Anderson Duo, they could just as easily have transferred the job to their SCM Record 220 or SCM Routomat 3. The Anderson handles most of their contract work, with the Routomat 3 used mainly for kitchen doors – which is a large part of their business – and the Record mainly for 3D work and some overspill from the other two. “Another distinct advantage of Alphacam, is that its programs can be transferred to any of our machines. We can produce a program for one machine and within a minute it can be transferred to another. We’ve got all our post processors which I can readily tweak. We’d be nowhere without Alphacam, we’re so embedded with it now.”

Other restaurant work undertaken by The Cutting Room includes fretwork panels, as well as silhouetted city skylines with cutouts. “It all calls for the extremely accurate toolpaths and cutting which we get from [Alphacam](#). We regularly work to within tolerances of 0.2mm, and if it’s a slot or precision detail it will often be finer than that. Also, with MDF we have to allow for movement, which can be 1mm over a metre.

“Alphacam’s features that we found most useful for this project? The same ones as on every job we do: the feature where we can load the drawing, put a toolpath around it and cut it out. In other words, Alphacam full stop. The whole package serves all our needs. All our CNC machining programs are produced by Alphacam. We’ve never used anything else.”

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### ***Oleo International Selects MSC Software’s Adams to Virtually Test their World Class Rail Buffers***

4 January 2012

MSC Software Corporation announced that [Oleo International](#) and their division in India Oleo Buffers India Pvt. Ltd., industry leaders for the design and manufacture of hydraulic energy absorption systems for the rail industry, have adopted MSC Software simulation solutions to analyze their designs in the virtual environment. Specifically, the Oleo R&D team integrated MSC Software’s [Adams](#) Multibody Simulation software within their product development cycle to improve designs under various operating conditions.

The Design Team at Oleo chose Adams to carry out simulations that predict how full systems will behave under various operating conditions. The simulations also allow for optimal design of the mechanisms within industry guidelines.

Sul Sahota, Managing Director of Oleo International, said: “Oleo is delighted to be working with MSC Software on this project. Our products are safety critical, and using simulation technology enables us to validate our designs.”

“This is a great example of how MSC’s simulation software tools are an integral part of Virtual Product Development and provide best in class solutions to our customers,” said Sridhar Dharmarajan, Senior Director & Country Manager of MSC Software India. “In this case, Adams, the world’s most widely used Multibody Dynamics software, was the chosen tool to carry-out Oleo’s next-generation product development programs.”

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## ***WorkNC Delivers Automatic CNC Programming at Serdar Plastik, Turkey***

6 January 2012

Serdar Plastik in Turkey opened for business in 1973 and created its mold manufacturing department in 1984. Since then it has grown to employ 375 people, has three plants, covering 24,000 sq. meters in total, and is soon to open a fourth. The company specializes in the manufacture of precise plastic parts and components for major manufacturers in a wide range of industries including domestic appliances, heating systems, automotive, medical, electronic, telecommunications, defense and aerospace. It provides a service from product design and manufacturing feasibility to molding and assembly, so its moldmaking workshop is an important and integral element of the manufacturing cycle.

The company has been using high-speed machining (HSM) centers since 1996, so it is well experienced in these machining techniques. Ceyhun ÇINAR, CAM Engineer for Serdar Plastik says, “WorkNC takes the guess work out of CNC programming and it is the closest thing to ‘single button’ CAM. It has several automatic toolpath types to fit our every need such as Global Roughing, Global Finishing, Optimized Finishing, ContourFinishing, Curve Machining and Hole Boring. The system is automatic, we just have to enter a few basic parameters and WorkNC does the rest.”

All WorkNC’s remachining operations are from dynamic stock models. These update as cutting progresses so that the system knows exactly what material has been removed and exactly what is remaining. The advantage for the user is that tool loads are controlled producing smoother and more fluid machining processes, better surface finishes and a longer tool life. High-speed machining requires careful control of the tool trajectory to avoid sudden shock loading of the cutter.

The molds cut by Serdar Plastik illustrate the power of WorkNC and the time and quality benefits intelligent high-speed machining can produce. Ceyhun ÇINAR explains, “WorkNC has a lightning fast graphic toolpath editor. We had to manufacture a mold for a filter which has 20,000 hexagonal shapes separated by 1mm channels in 52 HRC 1.2083 Stavax material. We produced the CAM program very easily by programming just one hexagon using WorkNC’s engraving toolpath and then, using the toolpath editor, replicated all the other 19,999 toolpaths, enabling us to machine the mold 15% faster than our competitors.” Because Serdar Plastik produces one off components and mold tools each part it manufactures is unique, which could result in a very heavy workload for its CAM programming office. Ceyhun ÇINAR says, “We stick to using around six of WorkNC’s toolpaths to do all our work. We particularly like the automatic programming in the software which helps us to avoid errors and produce the part right first time on our four high speed machining centers.”

The company is examining the possibility of implementing 5-axis machining so that it can manufacture more of each tool in one operation and also produce more complex shapes to meet the growing sophistication of its customer’s designs, helping to reduce costs and provide a better service. Ceyhun ÇINAR adds, “We are considering the purchase of WorkNC for 5-axis machining which will give us a significant commercial advantage over our competitors.” Sescor’s Auto 5 module automatically changes 3 and 3+2 axis moves into 5-axis continuous paths, so implementing this will enable Serdar Plastik to continue its automated approach to CAM programming for the next phase of its expansion plans.

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## Product News

### ***AVEVA Releases AVEVA Surface Manager***

5 January 2012

AVEVA has announced the release of AVEVA Surface Manager 12.1, another new product in its AVEVA Marine portfolio. AVEVA Surface Manager allows the transfer of surfaces to and from external systems, by the use of neutral standards offering greater flexibility and increased design quality.

Features of AVEVA Surface Manager include the import of surfaces from various formats for use in AVEVA Marine and graphically displaying the shape of the geometry. It supports the most commonly used formats: IGES, SAT, DML and STEP AP 203 for the import and export of surfaces. In addition, AVEVA Surface Manager also enables the extraction of surfaces from existing AVEVA Marine projects for conversion into external formats for use in third-party software.

The new product also offers tools for quality assessment of the managed surface and, if needed, can repair defects detected in surfaces transferred from third-party applications in order to be successfully used in the AVEVA Marine applications.

For the sub-division of work packages, AVEVA Surface Manager can also easily split surfaces so shipyards can protect the investment and confidentiality of their hullforms by only distributing to sub-contractors the part of the hullform they need to do their work.

“AVEVA Surface Manager gives AVEVA Marine users the freedom to use the surface system of their choice and efficiently transfers the surfaces into AVEVA Marine”, said Stéphane Neuvéglise, Head of Business Management – Marine Systems, AVEVA. “It also increases design quality as Surface Manager allows users to check the imported surface quality and to repair surface defects before they are allowed to propagate in the design. Perhaps most importantly, it also helps shipyards to protect their Intellectual Property, by distributing only necessary components of the hullform to subcontractors”.

To learn more about AVEVA Surface Manager and other AVEVA Marine products visit <http://www.aveva.com/marine>.

All AVEVA Marine products are part of AVEVA’s Integrated Engineering & Design approach which improves project efficiency and reduces engineering and design costs by offering complementary products that draw on common processes, disciplines and deliverables, through a single managed information model. There are three categories of product within the IE&D approach; AVEVA Engineer products create hullform, compartmentation, schematics, diagrams, datasheets, engineering lists and indexes. The AVEVA Design products create 3D models for detailed design and produce all associated production information. AVEVA’s Manage products enable global work share, clash management and design review.



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### ***BETA CAE Systems S.A. Announces the Release of ANSA v13.2.1 with New Features and Known Problems Resolved***

2 January 2012

#### **SUPPORTED PLATFORMS**

ANSA v13.2.x and the respective CAD Data Translators, will be available on MS-Windows, Linux and Mac OS

# CIMdata PLM Industry Summary

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only.

The following UNIX platforms: HP-UX, IBM-AIX and SUN-Solaris will be discontinued.

The support of Windows 2000 SP3 will also be discontinued and Windows XP SP1 will be the earliest MS-Windows version to be supported.

For details, please review the latest document on the supported platforms and minimum system requirements ([http://www.beta-cae.gr/pdf/system\\_requirements.pdf](http://www.beta-cae.gr/pdf/system_requirements.pdf)).

## NEW FEATURES

- CAD data Translators: the CT-based translators are now available with the new Service Pack 2011 SP3 that fixes numerous known problems.
- Hierarchy structure within the parts Manager is saved in the exported IGES files.
- Direct access to all "ANSA.defaults" settings is given within a GUI environment.
- A "Quick filter" section implemented in the Connections Selection Assistant for an easy and direct access to the most common used filtering options.
- Enhancements in the Automatic Connection points definition with "Preview" and "Margins" handling options.
- Tubes detection can be applied during the Automatic Bolt connection definition on Holes.
- New FE-Representations: BOLT ON SOLID & SOLID NUGGET.
- Numerous handy selection tools in Geometry handling functions.
- IMPRINT: New function that creates curves as a projection of existing lines.
- Quality Criteria: PAM-CRASH 2009 Crash Time Step for Shells and MOLDEX3D non orthogonality and growth ratio for Solids.
- Solid Mesh reconstruction via the associated volume skin (shells) reconstruction.
- Batch Meshing: significant improvement on the features treatment of the "Solid Tria Mesh".
- HEXA BLOCK: New function that creates the shell mesh from which, the solid elements will be generated.
- Detection of DUPLICATE SET NAMES based on the letters Case type (lower / upper).
- RESULTS MAPPER: the "Ignore Thickening" option has been added in the reading of SIMULAYT results format.
- Composites:
  - Clustering of the MAP data during output is supported for the Laminate Property.
  - The "Preview Clustering" is provided within the LAMINATE Tool.
  - Numbering rules for the resulting composite properties can be specified within the LAMINATE's property card.
- Abaqus: the \*SHELL\_SECTION supports the ORIENTATION parameter for CPE, CPS and CAX element types.
- Abaqus: support of PC3D element & Section. They can be also created within the TANK tool (SPH).
- Abaqus: list editing and handling enhancements in the STEP manager.
- LS-DYNA: Support of the \_MORTAR option for Contacts.
- LS-DYNA: MAT\_S15, MAT159, MAT159C materials are now supported.
- PAM-CRASH: Support of Shell Elements orientation via the keyword ORTHF. The handling of elements orientation is now available.
- PAM-CRASH: LAMINATE Tool is now available for PAM-CRASH composites modeling set-up.
- Fluent 2D: Boundary Conditions (BC) drawing mode.
- MORPH: the new function "DEFORM MAP" morphs according to Morphing Vectors that are based on History States, Deformation Parameters, Design Variables or Text file.
- MORPH: DFM movements can now be saved as Deformation Parameter.
- Optimization: The "Simulate-DOE" option now hosts both Simulate and DOE Study.
- Numerous new built-in script functions.

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and more...

For more details about the new software features, enhancements and corrections please, refer to the [Release Notes](#) document.

## KNOWN ISSUES RESOLVED

- The MERGE command, applied through Session file, caused abnormal termination of the program.
- Existing "Include files" defined in an ansa file were lost after the "Merging" a CAD file.
- Flat faces read-in from IGES or STEP files, had inaccurate CONS description.
- Attributes of Parts were not read when translated through the CATProduct.
- Existing Mesh were erased when the PID of a macro area was changed, whilst in MESH menu.
- Exporting connection file in XML format did not keep the original order of parts/properties.
- The Realization of Spotweld Lines did not consider the diameter specified in the "Thickness to Diameter Map" table (Windows>Settings).
- Critical errors occurred, in several cases, when converting NASTRAN CWELDs into Connection points.
- MID. SURF>CASTING: the resulted FE mesh had nodes at fillet areas which might have been out of the actual geometry.
- Batch Meshing: when the Units were changed, wrong values might be stored in the .ansa\_mpar file.
- Batch Meshing: Tubes Treatment on 2nd order elements occasionally resulted to weird mesh.
- Incomplete elements could be created after changing the nodal numbering of a Perimeter on Macro Areas meshed with MAP algorithm.
- Auto STL Spacing led to abnormal termination on MS-Windows platforms, when no FACE was visible when applied.
- The EDG2PER function occasionally led to abnormal termination when the Macro Area was associated to a volume definition.
- The CFD mesh generation algorithm occasionally halted the session when minimum length was not specified.
- The TETRA RAPID volume mesh generation function occasionally generated mesh with penetrating elements and Zero-thickness walls were not taken into account.
- LAYERS:
  - The Layers connection combined with Collapse non-progressive, resulted to weird last layer creation.
  - The Auto-Connect with Progressive inactive, could end up with intersections, while the Auto-Connect affected also shell elements already connected to solids.
- VOLUMIZE:
  - The function was not accepting values less than 1 in the "Paste Red Edges" field.
  - The "Paste Red Edges" option affected the original nodes too.
- The "Change Order" function was not preserving the nodal thickness.
- Safety: Erroneous reading of parameters written in ANSA.defaults of v13.1.5 or older.
- NASTRAN: The imported NSML1 were not applied on all referenced properties.
- Abaqus: The "blank" prefix name in ANSA.defaults was not respected.
- LS-DYNA: an empty line was added in the exported MAT\_ADD\_ERROSION material data.
- LS-DYNA: the XC and YC fields of INERTIA option were hidden in the SECTION\_SOLID window.
- LS-DYNA: ELEMENT\_DISCRETE that had empty the N2 field led to abnormal termination.
- PERMAS: imported WLSCON that were defined on SETs in ANSA, lost their DOFs.
- OPEN FOAM: SETs of polyhedral elements were written as SETs of nodes.
- STAR: Baffles and Internal Walls were wrongly changing their type during output.
- V.TRAPS: Running script for calculations might be leading to weird graphics and occasionally to unexpected code exit.
- TANK: The Filling diagram produced by the function [  $V=f(h)$  ] was not taking under consideration the local coordinate system .

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- MORPH: accuracy was low on Box creation and modification, when "Meter" Units were being used.
  - MORPH: Hidden Nested elements, although they were loaded, were not been taken into account in morphing operations.
  - SCRIPT: CheckList functions led to unexpected termination (on Windows machines only) when exiting the checks list window.
- and more...

For more details about the new software features, enhancements and corrections please, refer to the [Release Notes](#) document.

## COMPATIBILITY

ANSA files saved by version 13.2.1 can be opened by v13.2.0 but not by older versions.

## DOCUMENTATION

### Release Notes

For more details about the new software features, enhancements and corrections please, refer to the "ansa\_v13.2.1\_release\_notes" pdf document, that can be downloaded separately. This can be also reached by the "Help>Ansa documentation index" accessed by top menu bar within ANSA.

### Updated documentation

- Updated ANSA v13.2.1 User's Guide
- Batch Meshing for Solid Structural tutorial
- Mesh Quality Improvement: Recommended practices to handle MID.SURF>CASTING results
- Setting up an Ls-Dyna Model in ANSA

## DOWNLOAD

### Where to download from

Customers who are served directly by BETA CAE Systems SA. may download the new software, examples and documentation from their account in our server. They can access their account through the user login link at our web site <http://www.beta-cae.gr>

Contact us if you miss your account details. The [ Public ] link will give you access to the public downloads area.

Customers who are served by a local business agent should contact the local support channel for software distribution details.

### What to download

For the installation of the software on each platform type the following are needed:

For the installation of the software on each platform type the following are needed:

1. the .tar file with the respective platform name (e.g. Linux etc.), or the respective .zip file for Windows and
2. the "common" .tar or .zip file
3. the "tutorials and examples" .tar or .zip file

Previous software releases can be found in the sub-directory called "old".

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## *CADavenue Unveils Sheet Metal Design Software for Version 4*

27 December 2011

CADavenue recently announce a new version available for Plate 'n' Sheet, a [sheet metal design application](#) which allows Steel Fabricators and HVAC designers to create ducting transformations more

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easily. Once designed, the results can be exported to CAD or a CNC Plotting Device.

Plate 'n' Sheet/Version 4 provides many additional features while maintaining the program's simplistic approach to sheet metal design. The new version includes more shapes and project categories to select from. Additionally improved automatic dimensioning and material costing has also been added.

Although AutoCAD is not required, Plate 'n' Sheet is able to export a 3D wire-frame model and 2D views of the model directly from the program. AutoCAD LT is now supported using the 'Export to DXF' method.

The sheet metal software is used to design, calculate and unfold pipe and tubing parts often used for hoppers, nozzles, ventilation hoods, and HVAC pipe work systems.

Plate 'n' Sheet can be used for various industries such as piping, heating ventilation and air conditioning duct work.

Typically without sheet metal design software like Plate 'n' Sheet you would need to create 3D transformations first, then flatten them out into patterns. Other methods may include creating complex triangulations or drafting projections on paper.

"Learning to use our sheet metal software couldn't be any easier. We've even built in a help messaging system to let you know if a size is not valid or conflicts with another size," explains Victor.

The process contains 4 steps unfolding defined below:

- 1) Clicking on a shape that defines the part or transition to be calculated.
- 2) Entering the dimensional values that define your ducting shape.
- 3) Previewing the 3D model using typical Orthographic views.
- 4) Printing directly or exporting to a DXF file (use it with a profile cutter).

Plate 'n' Sheet generates these patterns given the dimensional constraints entered in the dialog boxes provided. Then export or print the project to a flattened template and onto a 2D plane.

## **About CADavenue.com**

CADavenue is a provider of affordable mechanical and [engineering software](#) for AutoCAD, IntelliCAD and AViCAD. Various software disciplines include Piping, Ducting, Steel Beams and Mechanical tools. Many of CADavenue's products (including Plate 'n' Sheet) offer a 30 day trial before purchasing.

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## ***Camstar Joins PTC PartnerAdvantage Program to Enable Faster New Product Introductions and Higher Quality***

5 January 2012

[Camstar Systems, Inc.](#) announced that it has joined the PTC® PartnerAdvantage™ Program at the Gold Tier.

Camstar's real-time monitoring and analysis of multi-tier supplier, manufacturing, warranty and return data will provide "Closed-loop Quality Execution" for PTC's Windchill® Quality Lifecycle Management (QLM) solution. With PTC's Quality Planning capabilities and Quality Improvement processes, global manufacturers will have a clearer understanding of product quality performance, and be able to take action to improve both current and next generation products.

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In addition, Camstar's Manufacturing Execution System (MES) enforces manufacturing product and process specifications, and details the as-manufactured audit trail for every unit. Combined with PTC's Windchill Product Lifecycle Management (PLM) and Manufacturing Process Management capabilities, Camstar and PTC close the loop on change management and enable companies to ensure that product launches and continuous improvement are fast and effective.

"To successfully launch new products and ensure the shortest time to profitability, manufacturers require synchronization of product and process definitions at their manufacturing sites and at strategic global supply partners," said Manash Chakraborty, Vice President of Business Development for Camstar. "We are pleased that PTC values the importance of complementary solutions for its customers, and we are delighted to be part of the PTC PartnerAdvantage Program."

"Camstar is a leader in Manufacturing Execution, Quality Management and Supply Network Quality," said Andy Barlow, PTC's Senior Director of Business Development. "The PTC PartnerAdvantage Program comprises software providers that are selected for their expertise and proven success. Through our review process, Camstar demonstrated its ability to help manufacturers, brand owners and their supply networks to improve product quality and the resulting business performance."

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## ***Cloud-Based Software Firm Expanding, Adding New Data Replication Technology***

3 January 2012

Ilesfay Technology Group LLC, an early-stage company that offers cloud-based data replication services for corporate product life-cycle management (PLM) systems, announced it is expanding its services to South America and making available ZoneSync, a first-to-market software application that improves point-to-cloud and cloud-to-cloud data replication processes.

ZoneSync allows network administrators to replicate data from their business systems to the cloud and create ongoing, automatic replication schedules that keep their data synchronized not only with their business systems but with their other cloud systems as well. The result is accurate, on-demand data that is the same for all users, regardless of their location.

Ilesfay's expansion of services, made possible after Amazon added its Sao Paulo region, will allow companies in South America to replicate data across their systems with increased efficiency.

"Businesses with distributed work groups that want to use cloud computing are often challenged by not only getting their data to the cloud but also making sure the data continues to flow correctly between the cloud and their current systems," said Chris McLennan, CEO of Ilesfay. "ZoneSync is designed to improve that process by making it easier to onboard to the cloud and regulate the data replication according to a set of rules."

ZoneSync is the newest of five SaaS products from Ilesfay: Ilesfay Replication, IlesfayFS, Ilesfay for PLM, and OEM Backup/Restore. In addition, Ilesfay has several patents pending to make its ZoneSync technology more efficient. For more information, visit <http://www.ilesfay.com>.

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## ***Delcam Adds 3D Tools to ArtCAM Insignia Artistic CAD/CAM***

4 January 2012

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A range of 3D modelling tools have been added to Delcam's ArtCAM Insignia software for volume production of artistic items by signmakers, furniture manufacturers, engravers and sculptors of materials from wood or metal to ice. The price of the new program is US\$ 2,500, £1,700 or 2,000 Euros, making the move into 3D manufacturing more affordable than ever.

Like all the members of the ArtCAM family of software, Insignia allows artistic users to produce high-quality decorative items, with all the productivity and consistency benefits of computer-based manufacturing but without the need for any detailed engineering knowledge. A demonstration version is now available for download, with a series of online webinars showing the new functionality planned for 20th January. Full details are available on the ArtCAM Insignia website – <http://www.artcaminsignia.com>.

Within the new 3D modelling tools, the most powerful option is the Shape Editor. By simply double clicking on a specific colour of a bitmap image or a selected vector, the user can quickly transform it into a 3D design. The Shape Editor can not only determine the shape's profile, angle and height but also how it is combined with any 3D relief that has already been created.

A second method for creating 3D designs from vector art is the Two-Rail Sweep. By selecting multiple vectors for the edges of the shape and any number of cross sections for chosen positions, users can quickly create a 3D sweep shape or a swept surface.

Once the initial design has been created it can be edited in a number of ways. The surface of the model can be given a smooth, unblemished appearance with the Smooth Relief tool. Options are available to smooth over the entire 3D design, an area within a specific vector or a selected colour, in a number of passes. This is a particularly useful way of smoothing evenly across a scanned 3D model for example.

Areas of the design can also be smoothed with the Smooth Sculpting tool. This can be used to remove blemishes from a scanned 3D model, to smooth adjoining areas of multiple pieces of relief clipart, or to soften sharp edges or corners. The final option can be particularly useful for designers of dies for foil stamping or embossing as softer corners can prevent the die from ripping the material.

Any mistakes made during smoothing can be overcome with the Erase tool, which allows the user to sculpt back to a previous point in time. The same tool can also be used to sculpt areas down to a flat surface.

Textures can be added to all or part of the relief to give a more attractive design, or to provide backgrounds on embossing plates or signs. Networks of shapes, such as spheres, cones, pyramids and weaves, can be added or subtracted to any colour and vector, or to the entire 3D model. Alternatively, files can be imported to create the required texture.

The complete relief can be offset, either to hollow out the part or to create the wall thickness. The same option can be used in toolmaking, either to produce the core and cavity of a mould, to create a male punch or to generate the shape required for a master for vacuum-formed packaging.

The 3D relief can also be wrapped along the x or y axis to create a cylindrical-shaped design, for example, a chair leg, 3D sculpture or rotary embossing die. This data can then be used to create the toolpath to rotary machine the design.

Most designs created in ArtCAM Insignia are expected to be machined with the range of 3D strategies in the software. However, the software also offers the ability to create triangle meshes, which can then be exported in a number of common 3D model file formats. This data can be sent to rapid prototyping equipment or to CAD systems, like Delcam's PowerSHAPE modeller, where the relief can be used to

decorate a CAD model.

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## ***Infor Accelerates Product Development for Process Manufacturers***

4 January 2012

**Infor** announced an enhanced version of **Infor10 PLM Process (Optiva)**. This next-generation application boasts **Infor10 ION** and **Infor10 Workspace** functionality to provide users with a single sign-on screen and flexible middleware that connects all business applications into one unified system. Infor10 PLM Process positions companies for future expansion by enabling integration with Infor and third-party applications, and storing background scripts in a new scripting library, eliminating the need to modify or recode after an upgrade. In addition, PLM Process is now capable of integrating with various SAP applications through Infor10 ION, providing greater connectivity, business process monitoring, data sharing, and enhanced workflows and collaboration across the enterprise.

PLM Process is a market leader in product lifecycle management for process manufacturers, and is used worldwide by companies including Akzo Nobel, Asian Paints, Cargill Flavor Systems, Hormel, Kerry, and Yves Rocher.

### **News Points**

Infor10 PLM Process offers users the unifying capabilities of Infor10 ION and the consumer-grade user experience of Infor10 Workspace to connect applications in a single, easy-to-use system that simplifies and streamlines business processes, providing users direct access to all relevant, real-time data for faster, more intelligent decision making.

In many cases, process manufacturers that run SAP applications can now take advantage of packaged integration to PLM Process through Infor10 ION, an open, lightweight middleware platform that provides interoperability and business process management across Infor and non-Infor applications.

Web client functionality is designed for faster, easier deployment and instant information transfer to facilitate communication between users and suppliers, helping to accelerate productivity in multi-facility or global organizations.

### **Infor Quote**

"Process manufacturers are facing unprecedented pressure to develop products and get them to the marketplace faster," said Venkat Rajaji, global product manager, PLM, Infor. "By taking advantage of Infor's leading-edge ION and Workspace technology, as well as a scripting library and web client enablement, Infor10 PLM Process delivers greater speed, agility and collaboration than ever before in the industry."

### **Additional Resources**

*Note: registration may be required to access online content*

Infor10 PLM Process (Optiva) - [www.infor.com/product\\_summary/plm/optiva/](http://www.infor.com/product_summary/plm/optiva/)

Infor10 PLM Product Demos - [www.infor.com/company/solutiondemos/solutiondemos-plm/](http://www.infor.com/company/solutiondemos/solutiondemos-plm/)

Join the conversation - [www.infor.com/company/socialmedia/](http://www.infor.com/company/socialmedia/)

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## *Kenesto Announces Beta Program; New System Attacks the Complexity, Costs of Legacy PLM*

4 January 2012

Kenesto, developer of a process automation system designed to deliver ease of use and immediate productivity, announced the opening of its beta program for customers and value-added resellers (VARs) in the manufacturing industry.

Kenesto is a completely new, 100% cloud-based system that allows users in all departments of the manufacturing enterprise to create processes and manage work easily. With Kenesto, users create processes graphically by simply naming participants and attaching documents, drawings, bills-of-materials (BOMs) and any other required information. Kenesto then manages the flow of that process through the enterprise, keeping information secure and delivering enhanced visibility across the business.

Kenesto automates common manufacturing processes including engineering change proposals, requests for quotation and new product introductions. Processes like these share attributes with many common tasks in an enterprise, including the need to securely share intellectual property, the requirement to involve people outside the R&D group and the desire to include vendors and suppliers in the process. These processes also involve a company's product and/or service, making them vital to the success of the business. Through its intuitive understanding of what users want to do, Kenesto brings new productivity to a company's crucial work processes.

"Until Kenesto, users wishing to automate their work were caught in a bind between simple but inadequate tools or very complicated, inflexible and pre-programmed PLM processes," said Michael Payne, CEO, Kenesto. "Our 'big idea' in Kenesto is to use cloud technologies to deliver a system that is as universal as email or spreadsheets without the difficulty, delays and costs of using legacy PLM systems. The customers and VARs who have seen Kenesto during our pre-beta demonstrations have all been excited by Kenesto's potential. Now, we are ready to bring this new way of working to more customers by means of our beta program."

### **How to participate in the Kenesto beta program**

Manufacturing companies and industry VARs are invited to participate in the Kenesto beta program. Send a request to [beta@kenesto.com](mailto:beta@kenesto.com) with your contact information, type of business and, if possible, an idea of a process you might wish to try in Kenesto. The company will contact you to discuss your participation in the beta program.

Kenesto is seeking companies whose work processes can be completed successfully in the beta version of Kenesto. In this way, beta program participants will be able to measure the real productivity of using Kenesto. Resellers who have clients with processes that have been attempted in legacy PLM systems but which have not delivered the desired level of results or user participation are encouraged to apply for the beta program.

To learn more about Kenesto, download An Introduction to Kenesto at <http://www.kenesto.com/intro>.

### **About Kenesto**

Kenesto ([www.kenesto.com](http://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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## **ModuleWorks Launches New 2011.12 CAM Components**

December 2011

ModuleWorks has announced the latest release of its CAM components, version 2011.12. The new release offers a range of new features across the product range, further expanding capability for 3-5 Axis machining and simulation.

The latest release introduces a broad set of new features across the products range. Highlights are shown below:

### **-4 and 5-Axis Machining**

The 2011.12 release adds a number of improvements to tool axis tilt control. 5-Axis tilting has a new fanning distance option to specify how tilting around corners takes place. A larger distance value will give a longer tilt transition around the corner giving smoother overall toolpath and help to avoid potential marking on the finished component. Tilting also has a maintain tilt option which can be used to avoid unnecessary tilting on small undercut regions. 4-Axis machining supports control with the tool axis maintained along the rotational axis and tilting applied relative to cutting direction.

There are also further improvements to the multi-blade toolpath with additional control on the rapid motion between passes. The angle step value may be specified to smooth the transition moves and avoid big angular movements which may not be desirable.

### **3-Axis Machining**

3-Axis roughing now allows pre-drilled holes to be specified for the entry position for the cycle giving improved control over the toolpath. 3-Axis toolpaths also offer arc fitting option to replace a series of linear moves with a smooth arc to improve toolpath motion and reduce NC program size.

The constant Z cycle now has an adaptive step down capability which adds additional passes in shallow areas. This has the affect of removing steps on the roughed out stock in shallow regions and reduces the need for semi-finishing. The toolpath also allows internal corners to be rounded to provide a smoother motion for high speed machining.

Pencil finishing now supports a multi-pass option by offsetting the toolpath out from the pencil trace by a given stepover and number of additional passes, providing a better surface finish in larger fillet areas.

### **Simulation**

A new dynamic refine feature has been added allowing the user to zoom up to small area and quickly refine the simulation to show details of remaining stock and surface finish. The previous model can be quickly recalled without recalculation providing a fast and easy workflow.

Simulation also allows a 3D mesh or STL to be specified for the tool holder or arbour. This is particular useful for lathe and mill turn applications where some of the more complex tool holders cannot be created using the simple revolves and extrudes.

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## ***Saratech and ADINA Join Forces to Provide World Class Simulation Products and Services***

3 January 2012

Saratech, Inc. (Saratech), a national Platinum partner of Siemens PLM Software, announces a business agreement with ADINA R&D, Inc. (ADINA), a leading provider of linear and nonlinear structural mechanics and multiphysics simulation software and services.

This partnership allows Saratech to provide customers with the benefits of the entire ADINA simulation software product line. Saratech customers now have full access to an expanded range of simulation capabilities, including the ability to transition from linear to nonlinear analysis activities on a single platform. The complementary nature of ADINA software and Siemens PLM Software tools, combined with expert guidance from Saratech will give customers the competitive advantage they need in the current business climate.

Saratech provides customers with complete PLM solutions including software, hardware, training, services and support. Customers looking to optimize their design, simulation and manufacturing processes can look to Saratech for assistance.

ADINA develops and maintains a world leading finite element software solution, the ADINA System, which is widely used for linear and nonlinear analysis of solids and structures, heat transfer, CFD and electromagnetics. It also provides a comprehensive array of multiphysics capabilities.

### **About Saratech**

Saratech, Inc. provides Product Lifecycle Management (PLM) solutions to support customers in many industries including aerospace and defense, automotive, hi-tech and medical. The company is dedicated to the success of its customers by providing software tools along with services and support. Saratech, Inc. is headquartered in Southern California with regional offices across the United States.

### **About ADINA R&D, Inc.**

ADINA R&D, Inc. was founded in 1986. The exclusive mission of the company is the development of the ADINA System for linear and nonlinear finite element analysis of solids and structures, heat transfer, CFD and electromagnetics. ADINA also offers a comprehensive array of multiphysics capabilities including fluid-structure interaction and thermo-mechanical coupling. ADINA is extensively used in different industries around the world such as automotive, heavy machinery, biomedical, civil and construction, energy, and consumer goods. ADINA R&D, Inc. is headquartered in Watertown, Massachusetts.

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## ***SimpleCAD Announces its Electrical and Fluid Power Symbol Libraries are now Compatible with AutoCAD 2013***

26 December 2011

SimpleCAD announced that it is preparing many of their industrial block libraries for the new AutoCAD® 2013 release expected to arrive in spring 2012.

This week SimpleCAD completed 2013 testing on one of their flagship products called the CAD-SYM library. The block library is comprised of [Electrical](#), Hydraulic and Pneumatic control systems.

Included with the electrical block collection is an integrated pull-down menu within AutoCAD®

# CIMdata PLM Industry Summary

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comprising of various block libraries all which are now compatible with AutoCAD® 2013.

Each symbol is accurately drawn on Layer 0 so that current layer standards can be implemented. Both Imperial (US) and Metric are also provided with each library.

The AutoCAD® 2013 compatible industrial libraries within CADSYM consist of the following:

Electrical ANSI Y32.2 & IEC 617 - contains symbols including bells, buzzers, horns, signal lights, capacitors, resistors, disconnects, fuses and circuit breakers.

Hydraulic - includes solenoids, actuators, filters, heat exchangers, relief valves, cylinders, pumps, motors, check valves and other regulating valves.

Pneumatic - ships with valve outlines, solenoids, actuators, fixed and variable flow controls and over 100 center spool configurations.

Steel Shapes - predrawn W,S,C,MC, H and L shapes with appropriate AISI, AISC or ANSI standards.

Combined [Electrical and Fluid Power libraries](#) consists of over 2750 symbols. In addition, other combined libraries include Pneumatic and Hydraulic and contain over 1450 blocks. A Steel Shape library with roughly 1050 is also available.

## About SimpleCAD:

SimpleCAD specializes in various AutoCAD® symbol libraries and [Piping Software](#) designed for the professional engineer and drafts person. They have been actively serving the AutoCAD® industry for over 25 years and offer various CAD solutions for different drawing applications.

Demos of CADSYM's libraries are available upon request.

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## *Theorem Release Plant Design to Mechanical CAD Translator; Resolving the Issue of Incompatible Data Formats Across Industries*

5 January 2012

Theorem's latest DGN to CATIA V5 CADverter has been developed to bridge the gap between the world of Plant Design and Mechanical CAD, resolving the issues of incompatible data formats and the ability to complete full design reviews of combined data sets when these two design disciplines meet.

The Microstation (DGN) to CATIA V5 CADverter has been designed specifically to take data from Microstation into CATIA V5 and Delmia. Normally these two design disciplines are used within different areas of an organisation but when they have to share data issues can arise. The primary issues being the incompatible data formats that exist between Microstation and CATIA V5 and Delmia.

Theorem's CADverter provides a solution to this problem. It enables CATIA and Delmia users to take Microstation shared cell instances or reference files which are used to define product structure and create CATproducts in CATIA V5 or Delmia. Then by taking individual Microstation geometric items and creating a CATpart or CGR representation it creates geometric representations for use in CATIA V5 or Delmia.

The Microstation to CATIA V5 CADverter enables the CATIA V5 or Delmia user to take building or plant designs from Microstation and use them with Product Data in CATIA or with Digital Manufacturing and Production definitions in Delmia.

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Theorem's DGN to V5 CADverter has been developed using both the Bentley Microstation and Dassault Systemes API's guaranteeing compatibility with latest vendor releases.

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