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## Acquisitions

### ***ANSYS, Inc. Announces Acquisition of EVEN – Evolutionary Engineering AG***

3 April 2013

ANSYS, Inc. and EVEN — Evolutionary Engineering AG ("EVEN"), a provider of composite analysis and optimization technology relying on cloud computing, announced that ANSYS has acquired EVEN, which will become ANSYS Switzerland, a wholly owned subsidiary of ANSYS, Inc. The terms of the transaction were not disclosed. Headquartered in Zurich, EVEN has 12 employees and has been a partner of ANSYS, offering EVEN's composite technologies through a product called ANSYS® Composite PrepPost™. This product is tightly integrated with ANSYS Mechanical™ in ANSYS Workbench™ and with ANSYS Mechanical APDL. EVEN also provides best-in-class engineering services in composites applications and in other areas in its fields of expertise.

Composites blend two or more materials that possess very different properties. Because they combine light weight, high strength and outstanding flexibility, composites have become standard materials for manufacturing in a range of industries, including automotive, aerospace, energy, marine, motorsports and leisure. As a result, the use of composites has grown dramatically in the last decade. This popularity has fostered the need for new design, analysis and optimization technology. Since EVEN is a leader in composite simulation, this acquisition emphasizes the high priority ANSYS is giving to this emerging technology. Composites pose many challenges for R&D teams that need to identify the appropriate formulation for a required use. To successfully produce layered composites, engineers must define the optimal material formula — which depends on the number of layers involved along with the thickness and relative orientation of each layer.

ANSYS Composite PrepPost is a pre- and post-processing solution for layered composite materials integrated into the ANSYS software portfolio. The solution empowers users to efficiently model the most complex composite structures and, at the same time, fully understand the potential failure of product models. Users can subject product designs to simple physical stresses and compute progressive damage, delamination and cracking. The technology's post-processing capabilities enable users to conduct in-depth investigations of ultimate product integrity and behavior. Users can view global results or conduct detailed analysis at the level of individual layers.

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"We are very pleased that our long-standing partner relationship with the EVEN team has resulted in EVEN becoming part of the ANSYS family," said Jim Cashman, president and CEO of ANSYS. "Composites simulation is a fast growing market with application across multiple industries, broadening our industry knowledge and competencies in this area. The tight coupling of the EVEN products within our platform is highly beneficial, so we look forward to working with the EVEN employees and customers."

Additional information will be provided on the ANSYS Q1 Earnings Conference Call.

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## Company News

### ***Accelrys Announces the Scientific Innovation Lifecycle Leaders Awards***

4 April 2013

[Accelrys, Inc.](#) has announced a new award honoring companies that are closing the productivity gap from innovation through commercialization — the Scientific Innovation Lifecycle Leaders Awards.

The awards recognize companies that leverage pioneering technology solutions and processes to accelerate new product innovation, speed time-to-market and increase profitability. According to Accelrys President and Chief Executive Officer Max Carnechia, "Every day, companies that rely on science are undertaking new technology initiatives designed to increase their efficiency and competitiveness, and bring products to market faster. The trailblazers of the industry are pushing the boundaries and creating entirely new approaches that don't rely on traditional paradigms — they are forging new paths that will impact their industries for years to come. Accelrys is proud to honor these industry leaders and the changes they are making to close the productivity gap and revolutionize R&D."

Accelrys will annually confer the awards in four categories — Life Sciences Research and Development; Materials Science and Engineering; Process Management and Compliance; and Excellence in Enterprise Informatics Implementation. Customers of Accelrys that exemplify best practices in managing their Scientific Innovation Lifecycle are invited to submit. Applications should outline:

- Why this project makes the organization a scientific innovation lifecycle leader? How did it improve R&D and product development within the organization?
- How this project pushed the boundaries, moving beyond traditional approaches?
- The specific project or organizational changes the company undertook and the functional area(s) it impacted — research, development, QA/QC or manufacturing.
- Challenges and obstacles faced in the undertaking the project or changes.
- Key team members.
- How the project succeeded — from new scientific approaches and driving innovation to

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streamlining internal processes to quantitative results — and any expected future outcomes.

## Submission Details

- Submissions are being accepted until April 30, 2013.
- Submissions can be created in the format of the nominator's choice (videos should be under five minutes and written submissions less than 1,000 words)
- Submissions should be sent to [Accelrys](#).
- Accelrys retains the right to publish portions of or full submissions unless confidentiality is requested by the nominator.

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## ***Applied Software Wins 2013 Autodesk Platinum Club Award***

4 April 2013

[Applied Software](#), an Autodesk Platinum Partner based in Atlanta, Ga., and provider of AutoCAD® and BIM professional services, workflow solutions, support and training, today announced it received the 2013 Autodesk Platinum Club award for new product revenue growth year over year. In 2012, the company won the Platinum Club award for marketing and in 2011, for reseller of the year. This year's win marks the seventh year that Applied Software has achieved the Autodesk Platinum Club honor.

"As a longstanding Autodesk Platinum Tier reseller partner, it's an extreme honor to receive the Autodesk Platinum Club award this year," said Richard Burroughs, president and founder of Applied Software. "We remain focused on helping our customers achieve competitive advantage by optimizing their use of Autodesk technologies at all stages in the design process lifecycle."

Applied Software partners closely with the architecture, engineering and construction (AEC) and manufacturing communities throughout the Southeast to help them improve and optimize the quality and productivity of their workflow and their use of Autodesk technologies. Applied Software has the distinction of being the only Autodesk reseller in business for more than 30 years.

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## ***Bricsys Announces New Sales Point for South Africa***

29 March 2013

Bricsys announced a relationship with Addosoft (Pty) Ltd, based in the greater Johannesburg area, to become the company's Sales Point for the fast growing South African market.

"We believe BricsCAD provides the ideal combination of a standard, yet smart CAD platform,

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extendable with add-on applications,” said Jean-Pierre Rousseau and Wolter Bijker, Founders, Addosoft. “With BricsCAD, Addosoft sets out to bring back the local South African ingenuity of specialised design and drafting modules on an advanced yet cost-effective CAD system, without re-inventing the wheel.”

Over the last several years, Bricsys was able to expand its business presence across more than 70 countries worldwide through a network of local Sales Points. Building on its strong presence in engineering powerhouse countries such as Germany and Japan, Bricsys has experienced increasing demand for its flagship BricsCAD software in the major developing countries of Brazil, Russia, India, China and also South Africa.

“We look forward to work with Addosoft to bring the BricsCAD platform to the South African market,” said Erik De Keyser, Bricsys CEO. “Jean-Pierre and Wolter’s solid background in design and engineering will be strong assets in bringing not only our technology but also our responsive support to the South African design and engineering communities.”

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## ***CNC Software, Inc., Developer of Mastercam<sup>®</sup>, Celebrates 30<sup>th</sup> Anniversary***

2 April 2013

CNC Software, Inc. is celebrating its 30<sup>th</sup> Anniversary in 2013. Two brothers, Mark and Jack Summers incorporated the company in 1983 with a new programming concept for CNC (Computer-Numerical-Control) machine tools. They developed a PC-based CAD/CAM software package with an emphasis on the CAM side. During that time, most of the programs were more CAD-oriented and expensive.

“Ours was developed with the machinist and the design engineer in mind,” says Mark Summers, President. “I was a machinist. It’s a direct approach – design the parts and generate the toolpaths to machine them.”

They called the software program “Meghan”, named after Mark Summer’s eldest daughter, and then changed it within the first year to “Mastercam” as a clearer descriptive of the software’s primary function. A third brother, Brian Summers, soon joined the company and now serves as Vice President.

The company continually uses its success to reinvest in new Mastercam versions, improved features and ease of use, its infrastructure of more than 400 dealers worldwide, its world-class “green” facility, and its intellectual property from what they call “the best minds in software development.”

The first version of Mastercam was a two-dimensional CAM program. Now, Mastercam offers solutions for designers and programmers involved in multiaxis milling, turning, wire EDM, router programming,

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plasma and laser cutting, 3D design and drafting, Swiss machining, and more. CNC Software's customers range from one-person job shops to Fortune 100 manufacturers. Mastercam is also ubiquitous in high schools, vocational/technical schools, colleges, and universities. The company's educational division operates out of Gig Harbor, Washington.

"Certainly one of our biggest reasons for our success is our exemplary and loyal global dealer network – all of those congenial experts who sell and support Mastercam," says Mark Summers. "Some of these people, really friends now, have been with us since the very beginning. They have helped shops grow and enjoy a true collaboration with our customers, offering advice, training, and applications experience to Mastercam users around the world."

Shortly after CNC Software started in Massachusetts, the company moved its base of operations to an office in Vernon, Connecticut. After a brief move to an industrial park, CNC Software built corporate headquarters in Tolland, Connecticut. When it outgrew that space, the Summers established the company's corporate headquarters and training facility in a new, 38,000 sq. ft. building in the same town. The building was thoughtfully designed and built for aesthetics, functionality, and environmental friendliness. In 2007, ground broke for a 12,000 sq. ft. addition to house a fully functioning machine shop with advanced equipment for Mastercam product research and development.

"I've had a passion for doing whatever I can to minimize environmental impact for as long as I can remember," says Mark Summers. "We review everything, from the kinds of organic fertilizers we apply to our grounds to the kinds of recycled paper we use to our geothermal heating system. Virtually everything here has been chosen consciously with the environment in mind."

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## ***EDA Consortium Reports Revenue Increase for Q4 2012***

1 April 2013

The EDA Consortium (EDAC) Market Statistics Service (MSS) today announced that the Electronic Design Automation (EDA) industry revenue increased 4.6 percent for Q4 2012 to \$1779.1 million, compared to \$1700.1 million in Q4 2011. Sequential EDA revenue for Q4 2012 increased 9.8 percent compared to Q3 2012, while the four-quarters moving average, which compares the most recent four quarters to the prior four quarters, increased by 6.7 percent.

"The EDA industry finished 2012 with a record quarter," said Walden C. Rhines, board sponsor for the EDAC MSS and chairman and CEO of Mentor Graphics. "CAE, IP and PCB were all strong, with PCB at 19.5% growth, more than double that of any other major category. Geographically, all of the regions reported positive growth, with the Europe/Middle East/Africa region leading the way."

Companies that were tracked employed 29,578 professionals in Q4 2012, an increase of 7.1 percent compared to the 27,623 people employed in Q4 2011, and up 2.4 percent compared to Q3 2012.

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The complete MSS report, containing detailed revenue information broken out by both categories and geographic regions, is available via subscription from the EDA Consortium.

## Revenue by Product Category

The largest category, Computer Aided Engineering (CAE), generated revenue of \$693.0 million in Q4 2012, which represents a 7.5 percent increase over Q4 2011. The four-quarters moving average for CAE increased 9.8 percent.

IC Physical Design & Verification revenue decreased to \$360.4 million in Q4 2012, an 8.2 percent decrease compared to Q4 2011. The four-quarters moving average increased 2.2 percent.

Printed Circuit Board and Multi-Chip Module (PCB & MCM) revenue of \$167.0 million represents an increase of 19.5 percent compared to Q4 2011. The four-quarters moving average for PCB & MCM increased 7.6 percent.

Semiconductor Intellectual Property (SIP) revenue totaled \$467.4 million in Q4 2012, an 8.1 percent increase compared to Q4 2011. The four-quarters moving average increased 7.7 percent.

Services revenue was \$91.3 million in Q4 2012, an increase of 0.5 percent compared to Q4 2011. The four-quarters moving average decreased 3.0 percent.

## Revenue by Region

The Americas, EDA's largest region, purchased \$767.1 million of EDA products and services in Q4 2012, an increase of 5.6 percent compared to Q4 2011. The four-quarters moving average for the Americas increased 7.4 percent.

Revenue in Europe, the Middle East, and Africa (EMEA) was up 8.1 percent in Q4 2012 compared to Q4 2011 on revenues of \$331.0 million. The EMEA four-quarters moving average increased 6.8 percent.

Fourth quarter 2012 revenue from Japan increased 4.4 percent to \$259.1 million compared to Q4 2011. The four-quarters moving average for Japan decreased 3.0 percent.

The Asia/Pacific (APAC) region revenue increased to \$421.8 million in Q4 2012, an increase of 0.5 percent compared to the fourth quarter in 2011. The four-quarters moving average increased 12.5 percent.

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## ***IronCAD, LLC Announces Expansion of Worldwide Headquarters***

29 March 2013

IronCAD, LLC, announced the expansion of their worldwide headquarters in Atlanta, GA. Due to the increased demand for the IronCAD Design Collaboration Suite, the need for better training facilities, and the need to expand human resources, IronCAD has relocated to a new facility. This new facility will allow IronCAD to continue to focus on delivering the most powerful design solutions while also allowing IronCAD to better serve their customers and resellers.

The expansion will also aid in IronCAD's plans to further grow their domestic and international reseller network by offering a centralized reseller training location. The state of the art training center will allow resellers to quickly learn the best approaches for selling and supporting the IronCAD line of software products, and the outdoor nature facilities will offer a great location for team building exercises. Software resellers who are interested in offering IronCAD products to their customers should contact IronCAD using the contact information at the end of this release.

"We are very excited about our new facilities." said Dr. Tao-Yang Han, IronCAD LLC's President and CEO, "We have seen rapid growth in the adoption of our design solutions throughout the world and we are expanding our facility to accommodate this increase in demand. Our expanded facilities will enable us to further improve our products and support offerings for both our customers and resellers worldwide. With this new facility we will be situated in a location that will serve our current and future needs."

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## ***ThomasNet Launches North American Manufacturing Scholarship Program***

1 April 2013

In a move to attract the brainpower and creativity of the next generation, and draw them into manufacturing, ThomasNet® announces the launch of its [North American Manufacturing Scholarship Program](#). Up to thirty graduating high school seniors with an interest in manufacturing careers will each receive a \$1,000 scholarship to pursue studies at a two-year or four-year college, or a vocational-technical school.

As far as ThomasNet is concerned, nothing less than the future is at stake. "For more than a century, we've supported American manufacturing by connecting buyers and suppliers," said Eileen Markowitz, president of ThomasNet. "We hope to have parents, educators and the manufacturing community join us in encouraging young students to transform their ingenuity and passion into a career in this exciting industry. With the launch of ThomasNet's first North American Manufacturing Scholarship Program, we will recognize those star performers who have already demonstrated achievement in their schools and communities, and who plan to bring their skills and talents to this important industry."

The timing of the program is no accident. According to ThomasNet.com's 2012 Industry Market Barometer® (IMB) survey, almost 50 percent of manufacturers are seeking to bring on new staff,

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including engineers, line workers, and skilled trade workers. Yet, despite high unemployment rates in the U.S. and Canada, manufacturers often have more jobs than talented people to fill them. That spells new professional opportunities for high school graduates who want to innovate, make products that are used all over the world, and leverage their science, technology, engineering and mathematics (STEM) training.

ThomasNet is inviting the manufacturing community to show support for the new Scholarship Program by signing up for any one of ThomasNet.com's free newsletters such as the new IMT Career Journal. For each new subscription, ThomasNet will make a contribution (up to \$30,000) to the Scholarship Program.

To be eligible for the ThomasNet North American Manufacturing Scholarships, applicants must be graduating U.S. high school seniors or Canadian secondary students who plan to major in engineering, supply chain management/business operations, or learn a skilled trade. Interested students and educators can find out more about the scholarship by visiting ThomasNet.com and applying directly at [www.thomasnetscholarship.com](http://www.thomasnetscholarship.com). The application deadline is July 1, 2013.

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## ***ZWSOFT Global Partner Conference 2013 Successfully Concluded***

3 April 2013

[ZWSOFT](#) has successfully concluded its 2013 Global Partner Conference. During the four-day conference, ZWSOFT displayed the latest development of its products and exchanged ideas on product development and user care with its global expert partners.

### **The Best Global Partner Conference Ever**

In order to allow all the global partners to exchange business and product ideas on an annual face-to-face occasion, ZWSOFT officially kicked off the first Global Partner Conference in 2009. In its fourth year, the recent conference gathered more than 100 expert partners from over 32 countries and regions in China. Sharing the same passion to bring user care to CAD design software, many partners benefited tremendously from this meeting.

### **Debut of New Product Value**

At this year's conference, ZWSOFT unveiled the latest achievements in two product lines, the ZWCAD products and ZW3D CAD/CAM solution.

For ZWCAD products, the conference highlighted the ZWCAD Family Group, which represents a group of CAD solutions that provide great product value in general usage, mobile design, mechanical and architecture fields.

For general CAD design usage, with the ready-to-release Service Pack 2, the [ZWCAD+](#) provides an

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even more efficient and fluid design experience; to enable users to access their design anytime anywhere, [ZWCAD Touch](#), the mobile version for ZWCAD+, offers instant operation response and convenient third-party cloud sync. In addition, the newly-added 3D view control function will also greatly enrich user's design experience.

In professional design fields, [ZWCAD Mechanical](#) based on ZWCAD+ is provided to help improve users' manufacturing design efficiency. With upcoming drawing customization features, ZWCAD Mechanical will be a more efficient design tool for manufacturing. In addition to ZWCAD Mechanical, there was one more surprise for architecture design. The ZWCAD Architecture Alpha version based on ZWCAD+ has been released for partners to test and has been widely recognized. It is believed to be another significant try of ZWSOFT to benefit the users in architecture.

“We are aiming to transform from a follower to an innovator,” said Kingdom Lin, General Manager of ZWCAD Overseas Business. “The value and benefit of ZWCAD product family is now gradually recognized and well-received by users across the globe. We believe we are on the right path and will benefit more users.”

For ZW3D, with the latest version [ZW3D 2013](#) recently released on March 18, users now are able to see a much more advanced all-in-one affordable CAD/CAM solution that helps them streamline design workflow, improve efficiency and more. At this conference global partners also gain a deeper understanding of the product and share experience in addressing users' design concerns.

## **Competitiveness Enhanced by Valuable Partnership**

Annually there will be product advancements unveiled at the conference. Each year's success cannot be possible without the continuous efforts of the partners. This year ZWSOFT acknowledged the contribution of all the partners and awarded the best 15 for their outstanding performance in making ZWSOFT products popular in their countries, including Brazil, Croatia, France, Germany, India, Japan, the Philippines, Malaysia, Turkey and Poland. These partners not only have advanced their local business, but have been closely cooperating with ZWSOFT in technical feedback and customer service, which puts more added value on ZWSOFT products for CAD users.

It has been a decade since ZWSOFT adopted its win-win partner business approach and now we have seen ZWSOFT become a leading CAD solutions supplier for over 320,000 users with some 150 partners in over 80 countries. Its success in business is proven. This year, with brand new product achievements and the collective efforts from all the dedicated partners, ZWSOFT is on a promising commencement for greater achievements.

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## Events News

### *2013 Global Product Data Interoperability Summit Expands, Now Open to More Vendors*

3 April 2013

The Boeing Company, Northrop Grumman Corporation, and Elysium Inc. will hold the fifth joint Global Product Data Interoperability Summit (GPDIS), on September 9-12, at the Sheraton Wild Horse Pass Resort in Chandler, AZ. The theme of this year's Summit is "Enabling Productivity with Common Data Streams."

The event functions as a communications hub for industry professionals to exchange ideas, solutions, and methods for improving product data quality and interoperability, with the goal of driving common standards adoption in global aerospace, automotive and other industries.

The growing popularity of the GPDIS has led to it being held two months earlier than in previous years, and in a larger venue to accommodate more vendors/sponsors. The event is held at no cost to industry professionals and supply chain partners in aerospace, automotive, related industries, and academia.

"This year we have more room to showcase an even wider range of the latest technologies that address the business challenges of CAD/CAM/CAE data exchange," says GPDIS executive management team member and event organizer Ken Tashiro, Vice President and COO of Elysium Inc. <http://www.elysiuminc.com/>. Vendors/solutions providers are also sponsors, which provides their teams with an opportunity to present at the event (if abstracts are submitted before the June 14 deadline, and approved) along with exhibit booth privileges and accommodation discounts.

The GPDIS executive committee of Boeing, Northrop Grumman, and Elysium will kick off the summit with early-bird sessions the first day, followed by three days of technical presentations.

"Fundamentally, being able to provide product information as needed by the end users, without having to do transformations and conversions, is the key challenge facing us going forward," says Nancy Bailey, vice president of IT at Boeing <http://www.boeing.com/boeing/>. "This is why this summit is so important, as it creates a forum for us to come together and get deep into those technical discussions around what our options and alternatives are for actually moving the data to a position of information in a way that we can sustain and maintain going forward."

"The Summit brings together industry leaders, suppliers, subject matter experts and individual contributors in an informal environment," says Nate Nalven, director of engineering applications at Northrop Grumman <http://www.northropgrumman.com>. "We have found this setting to be ideal in generating meaningful ideas and affordable solutions, and architecting enterprise-strategic roadmaps for the greater good of industry overall."

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Notes Tashiro, “This event continues to improve and grow to reflect the demands of the aerospace and automotive industries. Since challenges in product design, manufacturing and visualization are constantly emerging, the annual GPDIS is a great level set for the technologists who attend and an excellent opportunity for solutions providers to both learn and present.”

The 2013 GPDIS website <http://www.gpdisonline.com> offers the following links: “[Call for Papers](#)”, “[Summit Registration](#)”, “[Hotel reservations](#)”, and a “[Vendor Invitation](#)”. Presentation abstracts must be submitted to [charles.chen@boeing.com](mailto:charles.chen@boeing.com) by June 14th.

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## ***Access Manufacturing Systems to feature CAMWorks 2013 at EASTEC***

1 April 2013

Access Manufacturing Systems, Salem, NH([www.accessmfgsys.com](http://www.accessmfgsys.com)) will be featuring CAMWorks® 2013 ([www.camworks.com](http://www.camworks.com)), the latest version of the solid-based CNC programming solution from Geometric ([www.geometricglobal.com](http://www.geometricglobal.com)), at Booth # 5359 at EASTEC 2013, in Springfield, MA from May 14-16, 2013.

With the release of CAMWorks 2013, Geometric has maintained its focus on making programming easier and toolpath machining faster. Ease-of-use is a critical factor in ensuring high productivity of the CNC programming team at any machine shop. The latest addition of the Synchronous Machining Module (SMM) in CAMWorks 2013 to handle multi-tasking machines with greater ease is one more step in that direction. Other new features include an optional upgrade to VoluMill™ V5.0 performance tool path to help reduce cycle times while maintaining tool life; enhanced set of APIs that simplify the ability to integrate and automate the design to manufacturing cycles; 3 axis machining from STL files, saving time by creating multi-surface features; and auto correct of contour mill lead ins/lead outs.

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## ***Analog Devices Announces Design Conference 2013***

28 March 2013

Analog Devices, Inc., in collaboration with [Xilinx® Inc.](#) and [MathWorks Inc.](#), is launching a series of design conferences for analog, mixed-signal and embedded systems engineers. Based on the theme “*Discuss. Design. Deliver.*,” the conferences will bring together experts in high-performance analog, field-programmable gate arrays (FPGA) and modeling tools to present complete signal chain and system-ready solutions for complex design challenges. Engineers attending Design Conference 2013 will leave with practical knowledge and understanding of new products and solutions they can use in their designs. Experts from multiple engineering disciplines will lead the conferences and instruct engineers on advanced techniques of high-performance signal processing, reference designs and systems applications. Design Conference 2013 will take place in the United States, Germany and China. Avnet,

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Digilent and 4DSP, sponsors of the U.S. conferences, will showcase their industry-leading solutions based on ADI's analog and mixed-signal technologies.

## **US Conference Dates/Locations**

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April 25: Greater Boston, MA

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April 30: Santa Clara, CA

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“More than ever, analog and digital engineers are required to design across the entire signal chain in order to meet today's intense time-to-market pressures,” said Raj Seelam, director of Solutions Marketing at Xilinx. “Xilinx and Analog Devices have worked together to co-develop kits and reference designs that combine FPGAs, data converters and high-speed serial interconnects for easier system integration and faster time to market. Educational conferences such as these, extend our collaboration and help designers better meet the demands of multi-channel, data-intensive applications in industrial, healthcare, communications and other markets.”

Each day-long conference will include live demonstrations and 16 technical sessions addressing a wide range of technology areas and application solutions in industries such as aerospace and defense, high-speed RF communications, process control, motor control and instrumentation. The conferences are designed to expose attendees to the latest technology and signal processing innovations as well as real-world system level reference applications and tools showing how that technology can be rapidly applied within the broader ecosystem.

“When connecting a high-speed analog module to an FPGA platform, the right design tools are critical for developing systems efficiently,” said Ken Karnofsky, senior strategist, Signal Processing, MathWorks. “During the conference, attendees will learn how MATLAB® and Simulink® can be used to develop, model and deploy high-performance signal processing systems.”

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## ***AVEVA Sponsors 12th World Copper Conference 2013***

3 April 2013

AVEVA announced today that it will be participating at the 12th World Copper Conference being held in Santiago, Chile, from 8 - 10 April. AVEVA will showcase its [AVEVA Plant](#) portfolio of Integrated Engineering & Design software products that enables improved project efficiency and reduced engineering and design costs. In addition, AVEVA will host a technical workshop on 10 April.

'In 2012, AVEVA announced that it had opened a Mining and Metals Centre of Excellence, demonstrating our commitment and expertise to the industry,' said Santiago Peña, Senior Vice-President

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– Latin America, AVEVA. 'This event is an ideal platform for us to further explain the benefits of our engineering software to the market. Our approach offers complementary products that draw on common processes, disciplines and deliverables. This is available through a single managed information model to enable concurrent working and to seamlessly manage the consistency of engineering data. This not only reduces costly on-site rework, but cuts the overall project time and cost.'

The technical workshop will be presented by AVEVA's head of the Mining & Metals Centre of Excellence, Hector Pardo, who will describe how AVEVA's products are being used to increase capabilities and efficiency in the Mining and Metals industry.

Mr Pardo will also present AVEVA's Mining & Metals Centre of Excellence. Based in Latin America, at the heart of the global mining industry, this is an international resource used by both AVEVA and its customers. The Centre provides specialist strategic guidance for AVEVA's engineering and design products, and global configuration and implementation support for AVEVA's Mining, Metals & Minerals customers. It also creates solutions for special customer projects.

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## ***AVEVA Supports Calgary's Oil & Gas Industry***

4 April 2013

AVEVA today announced its attendance at two key events for the Calgary-based North American oil & gas industry: the *Slugging It Out* Conference 2013 on April, 15 and the ISA Calgary Show 2013 being held April, 17-18. AVEVA will showcase solutions that enable Engineering, Procurement and Construction contractors (EPCs) to reduce project execution time and cost and Owner Operators to improve the reliability and efficiency of their as-built 3D plant design and instrumentation and electrical engineering data.

The *Slugging It Out* Conference 2013, at which AVEVA is a Silver Level sponsor, is hosted by the Canadian Heavy Oil Association (CHOA) and the Society of Petroleum Engineers (SPE). From its AVEVA Plant portfolio, AVEVA will showcase its brand-new product, AVEVA Everything3D™ (AVEVA E3D™), which enables Plant Design for Lean Construction. This will demonstrate the power of integrating laser scanning with 3D design. The as-built plant environment can be accurately captured to provide the oil & gas industry the ability to reduce construction time and costs for both greenfield and brownfield capital projects.

At the ISA Calgary Show 2013, on booth 1142, AVEVA will be showcasing its AVEVA Instrumentation™ and AVEVA Electrical™ solutions that improve automation and increase project efficiency, as well as reduce engineering and design costs. AVEVA will showcase how EPCs and Owner Operators can manage their instrumentation and electrical data and produce ISA-standard datasheets and drawing deliverables.

# CIMdata PLM Industry Summary

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'We are presenting technologies at these important events that will resonate with the particular interests and priorities of the different audiences,' said William Muldoon, Executive Vice-President – North America, AVEVA. 'AVEVA Instrumentation and AVEVA Electrical will help increase efficiency using ISA- standards on major projects. Our AVEVA E3D solution will showcase how EPCs and Owner Operators can reduce fabrication and construction costs using AVEVA's Plant Design for Lean Construction philosophy. We are proud to support these two events in Calgary and look forward to demonstrating the benefits of AVEVA's solutions to the Canadian oil & gas industry.'

The *Slugging It Out* Conference 2013 takes place in the Palomino Room, BMO Centre, Stampede Park, Calgary. The ISA Calgary Show 2013 takes place in Halls D & E, Stampede Park, Calgary.

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## ***Delcam CRISPIN to Show Shoe Design Software at Chinese Footwear Expo***

4 April 2013

Delcam CRISPIN will demonstrate the 2013 version of its ShoeMaker software for 3D concept design and Engineer Pro pattern development and grading software for the footwear industry at the 15th Jiniang Footwear Expo to be held in Fujian, China, from 18th to 21st April. The new releases incorporate new functionality, revised options and an improved installation process.

Delcam CRISPIN is the world's largest supplier of CAD/CAM software to the footwear industry and is the only supplier able to provide a complete solution for the 3D design and manufacture of lasts, uppers and soles.

ShoeMaker is the product of choice for 3D conceptual footwear design and is the only solution to combine upper and sole design and modelling within the same 3D environment. The software helps users to produce realistic 3D footwear models for design and marketing reviews, whilst reducing the number of samples produced, improving communications between the design and manufacturing teams, and reducing overall product time to market. Any required design iterations can be made easily, to produce an approved design model and flattened patterns that are ready for engineering.

New functionality for ShoeMaker 2013 includes user-defined flattening for Offset Concept Lasts (OCL), improvements to the last import with automatic detection of the centre lines, and better control for the positioning of image stencils, including a three-point alignment tool. There is a new Flattening Parameter File editing tool for adjusting specific aspects of the flattened forms, plus some additional fine controls to change the shape of the flattening.

A special tool has been added to change the appearance of the design model to display a 'relaxed look' as if the last has been physically removed from the shoe. Finally, a new pattern assessment tool for pre-costing of the pattern pieces has been added.

# CIMdata PLM Industry Summary

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Engineer Pro helps users to produce 2D sample and graded footwear patterns for manufacturing in the fastest possible time, whilst also assisting in the management of tooling costs. Advanced tools like 'Edge Templates' reduce pattern development times dramatically, so improving throughput and reducing time to market.

New functionality includes Single Click Boundary, a new way to create boundaries where a left-click in a closed area creates a boundary from the enclosing lines. An option has been added to the Radius/Chamfer function allowing a radius to be quickly added to any intersection of a part.

There are also improvements to the speed with which the Boundary, Chain and Join functions are used and an easier way to convert corner points to curve points.

In addition, there is now a new option to adjust the icon size of the main tool bars and tool-trays to the smaller size of 24x24. This option increases the size of the working area, a request which has been requested by several customers.

There have also been some significant changes and improvements to the installation process and the environment configuration for Engineer Pro.

The combination of Engineer Pro and ShoeStyle provides a powerful combination of 3D and 2D tools to ensure that any manufacturing issues are detected earlier in the development cycle by improving communication between the design and pattern making departments. This reduces the number of design iterations and so allows the time to market to be shortened significantly.

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## ***Delcam FeatureCAM Turning and Turn-mill Options on Show at Turning Days***

5 April 2013

The latest developments for the programming of turning and turn-mill equipment in Delcam's FeatureCAM feature-based CAM software will be demonstrated at the Turning Days exhibition to be held in Villingen-Schwenningen, Germany, from 17th to 20th April. They include new and enhanced options that allow users to increase productivity, improve surface finish and reduce tool wear.

Full details, including video demonstrations of the new functionality, are available at [www.delcam.tv/fc2013/lz](http://www.delcam.tv/fc2013/lz).

FeatureCAM was the world's first feature-based programming software when it was launched in 1995. Constant development since then has ensured that the system has retained its leadership in programming speed and ease of use, while an increased range of strategies has been added to provide

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more efficient toolpaths giving greater productivity on a wider range of machines.

The latest improvements for turning include smoother lead-in and lead-out moves that reduce any witness marks when finishing larger turned parts in a number of sections, and the ability to specify the optimum retract angle for turn-grooving operations and so leave a better surface finish on the part.

Definition of the initial stock and part alignment has been improved, making it more similar to the set-up process for milling, support has been added for semi-finish canned cycles and curves of revolution can now be recognised from STL models. A new method has also been introduced allowing b-axis rotary milling to be carried out on features that would otherwise require the use of excessively long cutters.

Turn-mill operations have been made more efficient by offering an alternative method for calculating the index limits. This calculates the limits based on the size of a solid revolve of the part, rather than creating a cylinder around the corner limits of a rectangular bounding box around the part stock. The new method can give an index distance closer to the part shape and so produce more efficient toolpaths.

The options for multi-spindle, multi-turret machines have been improved by fully integrating part transfers into the FeatureCAM output. Simulation and post-processing of these operations is also supported. In addition, the handling of synchronisation points has been enhanced to simplify the optimisation of the machining sequence between the various elements of the machine.

The latest versions of FeatureCAM also give the ability to incorporate probing sequences into CAM programs. This makes it easier to undertake unsupervised production operations by allowing automated checks to be carried out before, during and after machining.

The new probing options can be used in a variety of ways. Before machining, sequences can be created to check that the expected part and fixture have been loaded, and that they have been placed in the correct orientation.

Probing routines can be introduced at any stage during manufacturing. For example, critical features can be inspected immediately after they have been created to check whether too much or too little material has been removed. If the parts are found to be outside tolerance, they can be scrapped immediately, rather than carrying on with machining and waiting for the results of an inspection at the end of the complete process. Equally, an additional operation can be introduced if further material needs to be removed from the part.

Finally, FeatureCAM now incorporates a new method for generating html set-up sheets. Information can be extracted from the FeatureCAM project to provide a detailed list of the tooling to be used, with an illustration of each tool, together with the dimensions of the initial stock and an image of the finished part.

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## ***EDA Industry to Recognize Dr. Chenming Hu with the Phil Kaufman Award at DAC 2013***

3 April 2013

Dr. Chenming Hu, TSMC Distinguished Professor of the Graduate School at the University of California, Berkeley, has been selected by the EDA Consortium (EDAC) and the IEEE Council of EDA (CEDA) as recipient of the 2013 Phil Kaufman Award for Distinguished Contributions to Electronic Design Automation (EDA). He will receive this award at the opening ceremony of the largest EDA event, the Design Automation Conference (DAC) on June 2, 2013, in Austin, Texas. Dr. Hu is being recognized for his contributions in device physics, device modeling, and device reliability through BSIM and BERT models that have transformed the semiconductor manufacturing and electronic design automation industries. Dr. Hu's team invented the revolutionary 3D FinFET transistor structure that simultaneously achieves size and power reduction to enable continued scaling of the microelectronic chips.

In a career spanning four decades, Dr. Hu has advanced semiconductor technologies through nearly one thousand research publications, building industry leading companies, and training hundreds of graduate students. Dr. Hu received a bachelor degree from National Taiwan University, masters and PhD degrees from UC Berkeley. He served on the faculty of MIT and UC Berkeley as well as the chief technology officer for TSMC, the world's largest semiconductor foundry. He founded Celestry Design Technologies, later acquired by Cadence Design Systems. He was elected to the US National Academy of Engineering in 1997, the Academia Sinica in 2004, and the Chinese Academy of Sciences in 2007. He received the IEEE Andrew S. Grove Award, the Don Pederson Award, the Jun-Ichi Nishizawa Medal for his contributions to MOSFET device, technology and circuit design, and UC Berkeley's highest honor, the Berkeley Distinguished Teaching Award. Dr. Hu served as a board chairman of the nonprofit East Bay Chinese School and currently serves on the board of the nonprofit Friends of Children with Special Needs.

"The Award celebrates Chenming's contributions to the EDA industry for the BSIM compact models widely used to design all types of integrated circuits, spanning logic, memory, analog and RF products. His technical contributions have profoundly affected directions in device technology as with the FinFET, all aspects of device reliability, and non-volatile memory technology. His graduates serve in senior leadership positions globally. With this award, the semiconductor industry collectively applauds Chenming's monumental impact," added this year's award presenter Klaus Schuegraf, Group Vice President of EUV Product Development, Cymer, Inc.

Aart J. de Geus, Chairman and co-CEO of Synopsys, Inc. and EDAC Chairman of the Award Selection Committee said, "Recognizing Chenming Hu the very year in which the entire EDA, IP, and Semiconductor industry is unleashing the next decade of IC design through the 16/14nm FinFET generation is not a coincidence, but illustrates how a great contributor can impact an entire industry!"

"Professor Hu's work and life stands as an example of tremendous contributions to science, technology,

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and society that would make Phil Kaufman proud. IEEE CEDA is a proud partner to EDAC in honoring such a luminary," said Donatella Sciuto, president of CEDA.

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## ***Final Lineup for 2013 3D Collaboration & Interoperability Congress Announced***

2 April 2013

Longview Advisors, organizers of the annual Collaboration & Interoperability Congress (CIC), today announced its lineup of speakers for this year's event. The agenda is available at the congress website, ([www.3dcic.com](http://www.3dcic.com)).

Now in its tenth year, CIC has become a yearly barometer of the state of collaboration and interoperability strategy, technology and solutions in manufacturing and business communications. The three-day international event gives attendees a unique opportunity to network, learn and strategize with thought leaders from many sectors of discrete manufacturing, including automotive, aerospace, heavy equipment and electronics industries, as well as with representatives from government and defense communities.

Organizers are pleased to announce that NASA/ESA (European Space Agency) will hold its 14th annual product data meeting at 3DCIC 2013. In addition, the PDES Board of Directors will hold its annual meeting at 3DCIC this year, and the 3D PDF consortium will be joining the CIC again for its second annual meeting.

The 2013 CIC program provides information-packed presentations and panels of industry experts, highlighted by the following, mentioning only a few:

- **A Roadmap for Impact: Driving Innovation in the New Age of Manufacturing**, Dr. Thomas Kurfess, Assistant Director for Advanced Manufacturing at the Office of Science and Technology Policy in the Executive Office of the President of the USA
- **3D Product Definition and Collaboration: A SASIG Initiative**, Ram Pentakota, Global Chief Engineer, Johnson Controls
- **Collaborative Multi-user Synchronous Modeling, Analysis and Design**, Dr. C. Greg Jensen, Professor of Mechanical Engineering, Brigham Young University
- **The Way Forward for Advanced Manufacturing and Inn**, Bob Kiggans, Vice Chairman at SCRA Applied R&D, Vice Chairman, ITI and Chairman at Intelligent Manufacturing System
- **Collaborating to Put Wheels on Mars**, Gabriel Rangel, Office of the CIO, Jet Propulsion Laboratory
- **Concurrent Engineering Approach to Design Mission Feasibility Studies at CNES**, Jean-Luc LeGal, Director, Concurrent Design Facility, Space Mission Feasibility Study Office, CNES
- **Results of the 2013 Collaboration & Interoperability Survey**, Chad Jackson, President, Lifecycle Insights

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- **Enabling Mobility for 3D Information, Processes and Practices**, Simon Floyd, Director of Innovation & PLM Solutions, WW Discrete Manufacturing Industry, Microsoft
- **Visualization vs. Communication: Enabling the Model-Based Enterprise**, David Opsahl, Executive Director, 3D PDF Consortium
- **JT for 3D Visualization and Collaboration**, Mike Zink, Facilitator for the JT Open Program Technical Review Board, and Senior Product Manager, Siemens PLM Software
- **CAD Data Translation Validation**, Dr. Charles Chen, Associate Technical Fellow, Boeing
- **Digital Interoperability Requirements for Model-Based Quality**, Curtis Brown, Principal Engineer, Honeywell FM&T
- **Roundtable Discussion - Pros, Cons and Alternatives of Archiving Data**, Moderated by James Delaporte, Partner and Business Transformation Leader, NexTec

Visit the congress website ([www.3dcic.com](http://www.3dcic.com)) to find out more about the event and for free access to presentations and audios from past events.

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## ***LFM Software Announces New Laser Software Products at SPAR 2013***

2 April 2013

LFM Software, an AVEVA Group company, announced today that it is launching new laser software products at SPAR International 2013, taking place 15-18 April in Colorado Springs, USA. The new release of LFM Server has enhanced functionality to enable offline data reviews and overall project time savings. The new LFM Operating Modes covers scan preparation, registration, LFM Server dataset and LFM NetView™ project generation. LFM software can now integrate the upfront laser scan data preparation tasks into a simple workflow that enables maximum productivity and flexibility.

'SPAR International 2013 is the perfect place at which to launch our exciting new laser scanning software products,' said Bruce Douglas, Senior VP Marketing & Product Strategy, AVEVA. 'By listening to customer feedback we have designed the new LFM Operating Modes to offer an unrivalled user experience. It has greatly simplified what was previously a complicated laser scan data preparation task. The Modes can be used stand-alone or as part of a seamlessly integrated workflow within LFM Server.'

'LFM Server now has even more powerful measurement capabilities and can import data from hand-held and mobile devices, giving greater flexibility and savings across a laser scan project. As laser scanning becomes ever more affordable, new industries will start to see the benefits of accurate as-built information.'

Alongside the direct integration with AVEVA Everything3D™ for the plant market, the new LFM Server also includes a completely redesigned optional CAD link module for AEC and BIM projects. The

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connection to Autodesk's Revit 2013 allows designers to work with massive laser scan datasets in their familiar design package. It supports rapid volume selection and the ability to look at the BIM model in the 3D BubbleView™. This new module complements existing links to AutoDesk and Bentley products.

To book a press briefing with an LFM Software representative please contact Kate Magill, tel: +44 1223 558204, email: [kate.magill@aveva.com](mailto:kate.magill@aveva.com).

SPAR International takes place at The Broadmoor, Colorado Springs, Colorado, USA. Entering its 10th year, SPAR International is focused on best practices for using 3D imaging and positioning for the design, construction and operation of process, power and offshore facilities.

For more information of LFM at SPAR visit [www.lfm-software.com](http://www.lfm-software.com)

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### ***PROLIM Global Corporation to Sponsor Aras ACE International Conference***

3 April 2013

PROLIM Global Corporation today announced that it will sponsor ACE 2013 International, the annual global event for Aras enterprise open source product lifecycle management (PLM) software. ACE 2013 International takes place April 30 - May 2 in Troy, Michigan, USA.

ACE 2013 International - April 30 - May 2 2013  
Detroit Marriot Troy - Troy, MI (close to Detroit USA)  
Details and Registration: <http://www.aras.com/ACE/2013>

“ACE brings people together from all over the Aras Corporate Community and all over the world, providing an excellent opportunity to see the latest innovations from partners, talk to users that have achieved PLM success and find out what's coming next from Aras. Whether you're just forming your PLM strategy or expanding your Aras deployment, you won't want to miss this year's ACE conference,” said Peter Schroer, President of Aras.

“We put Life into Product Lifecycle by focusing on voice of customer (VOC) and try very hard to solve the unsolved business problem by leveraging Technology. We are proud to participate and sponsor ACE 2013,” said Prabhu Patil, CEO & President of PROLIM.

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### ***Registration Now Open for Smartgeometry 2013 Conference Taking Place April 19-20 in London***

2 April 2013

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Bentley Systems, Incorporated, announced that registration is open for [Smartgeometry 2013](#). The conference, which returns this year to London where it was first held a decade ago, takes place April 19-20 at the Institute of Education, University of London. This widely acclaimed conference is focused on computational and parametric design tools, technologies, and methodologies that allow and encourage new forms of architectural and structural expression. The 2013 conference follows a four-day workshop that enables teams to explore design issues using advanced software such as [GenerativeComponents](#) from Bentley.

This year's Smartgeometry Conference theme, "Constructing for Uncertainty," recognizes that design and construction are increasingly more information-centric and are simultaneously faced with computational ambiguity since only a subset of the relevant factors can be fully captured and evaluated in traditional design models. Among the many renowned computational design leaders and practitioners who will be sharing their insights on these and other design issues are Tristram Carfrae, Arup structural engineer, Arup board director; Michelle Addington, Hines professor of sustainable architectural design at Yale University; Sarah Jane Pell, artist and researcher; and Ben Cerveny, data visualization artist.

Huw Roberts, Bentley vice president, core marketing, said, "We're proud to sponsor, for the tenth straight year, this great conference that draws forwarding-thinking architects, engineers, and members of academia from around the globe. What sets it apart from other design conferences is a unique approach that brings together research and practice in ways that tangibly advance the architectural and engineering design processes through the use of computational tools. Seeing how people are pushing the envelope in applying technologies like *GenerativeComponents* in computational design, especially in multi-disciplinary workflows and in pursuit of 'BIM' objectives, not only paves the way for more sustainable, responsive, and inspiring buildings, but also inspires Bentley to explore the next generation of technology."

The Smartgeometry 2013 Conference includes:

- Talkshop Day, April 19 – Through a series of panel discussions, this interactive first day provides an opportunity to share with tutors and participants critical reflection on the advanced design work of the previous four days during the Smartgeometry 2013 Workshop being held April 15-18, 2013, at The Bartlett. The Workshop enables architectural and engineering professionals, academics, and students to explore this year's challenge, "Constructing for Uncertainty." Workshop participants will tackle the realities and future uncertainties and will realize digital design prototypes that cope with the soft reality of an uncertain built environment employing *GenerativeComponents* – Bentley's generative design software.
- Symposium Day, April 20 – Day two includes insightful presentations by renowned experts on the theory and practice of computational and parametric design approaches. This is regarded as the world's premier symposium on the interaction of new technologies, methodologies, and principles in design practice.
- Reception, April 20 – The conference ends with a social gathering celebrating the innovation, creativity, and leadership of the generative design community. It also provides an opportunity to view the work developed during the four-day workshop.

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Shane Burger, director, Smartgeometry, said “Smartgeometry is celebrating its 10th anniversary in London, the same city in which it was founded. In reflecting on 10 years of events, the Smartgeometry Community developed the sg2013 Challenge, ‘Constructing for Uncertainty,’ as a means of projecting forward 10+ years to better contextualize our work within a changing built environment. Working with Bentley Systems, our longtime partner since the first Smartgeometry Workshops, and Bartlett, our host for the event, we are able to deliver this year a Smartgeometry Workshop and Conference that will be the most expansive and challenging yet.”

For additional information about, and to register for, the Smartgeometry 2013 Conference, visit [www.SmartgeometryConference.com/2013](http://www.SmartgeometryConference.com/2013).

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## ***SURFCAM to Show at HaasTec 2013***

3 April 2013

Surfcam will use their seminar session at HaasTec 2013 to show how even novice users can create G-code to produce the exact results needed on the shop floor.

SURFCAM supports and provides Haas-specific post processors in both M-Post and S-Post in SURFCAM. Surfcam, Inc., developers of SURFCAM CAD/CAM Systems, is the latest addition to the Vero Software family, and their participation in HaasTec 2013 further demonstrates the Group’s continuing support of Haas’ technology, machine tools and customers. HaasTec will take place at the Haas headquarters, 2800 Sturgis Road, Oxnard, California from April 9 – 12. The event will run from 8:00 A.M. to 5:00 P.M. daily.

SURFCAM offers machine shops using Haas CNC machines an easy to use, SolidWorks associative CAD/CAM system with powerful capabilities to generate 2 to 5 axis simultaneous toolpaths with verification. Haas customers can also take advantage of over a dozen Haas machine specific post processors included in SURFCAM with the ability to increase material removal rates by 5 times on their Haas CNC machine using TRUEMill technology.

Surfcam, Inc., will be presenting the latest release of SURFCAM 6, available in multiple languages, during their HaasTec Seminar Session on Friday, April 12 at 10:00 A.M. PST. Attendees to this presentation will see for themselves how SURFCAM’s extreme ease of use, coupled with powerful toolpath control, can create g-code that any Haas customer can immediately take advantage of. Whether it is importing native CAD geometry, working with fully associative SolidWorks files or applying sharable “Best Machining Practice” templates, or verifying a complete operation, SURFCAM will demonstrate how even a novice user can efficiently create exactly the results required on the shop floor.

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***WebMediaBrands’ Inside 3D Printing Conference & Expo Features Three Keynotes, Comprehensive***

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## *Tutorials, and Exhibitors 3D Systems, MakerBot, and Stratasys*

28 March 2013

[WebMediaBrands Inc.](#) announced that Avi Reichental, President & CEO of 3D Systems, Terry Wohlers, Principal Consultant and President of Wohlers Associates, Inc., and Peter Weijmarshausen, CEO & Co-Founder of Shapeways, are keynoting at [Inside 3D Printing Conference & Expo](#), taking place at the Javits Convention Center in New York City on April 22-23, 2013.

Dr. Hod Lipson, associate professor and director of the Creative Machines Lab at Cornell University and author of *Fabricated: The New World of 3D Printing*, developed [the conference program](#) with a robust lineup of speakers. In addition to comprehensive tutorials, Inside 3D Printing Conference & Expo offers sessions covering the use of 3D printing in medicine, fashion, food, design, architecture, manufacturing, and more.

Inside 3D Printing Conference & Expo also features a wide range of [exhibitors](#) demonstrating the latest 3D printing equipment and services, including 3D Systems, MakerBot, Stratasys, Mcor Technologies, Sculpteo and more.

For complete information on the Inside 3D Printing Conference & Expo, please visit <http://inside3dprinting.com>.

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## Financial News

### ***CENIT AG: Executive and Supervisory Board will Propose an Extra Dividend***

2 April 2013

At the CENIT Supervisory Board meeting on April 2nd, 2013 the following was decided: At this year's shareholders' meeting on May 31st, 2013 the Executive Board and the Supervisory Board will propose a dividend of EUR 0.30 and an extra dividend of EUR 0.25 per share because of the 25th anniversary of the company.

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## Implementation Investments

### ***Brooks Brothers Standardizes On TEXbase for Materials Quality and Compliance Management***

26 March 2013

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TEXbase announced that their technology will serve as the materials quality and compliance management solution for Brooks Brothers. Brooks Brothers has also extended their agreement for three years and standardized on TEXbase for these critical capabilities.

TEXbase delivers quality assurance data management, supplier collaboration and product compliance solutions that improve product quality, time to market, and compliance. Through a comprehensive range of automation options, TEXbase securely unifies brands, retailers, suppliers and labs for material and product development, testing protocols, quality testing and compliance documentation.

TEXbase Compliance solutions help quality and compliance professionals meet requirements such as the Consumer Product Safety Improvement Act (CPSIA), Proposition 65, Restricted Substance lists and Conflict Minerals. On the TEXbase platform, compliance can be an outcome of an end-to-end process of material and product development, specifications, testing and documentation, or a standalone solution for finished products. TEXbase generates Certificates of Compliance and provides a Compliance Certification portal for transparent compliance management.

Brooks Brothers recognized a critical need for a system to support their rapid expansion, ongoing innovation and the growing list of compliance requirements. The objective was to streamline materials management, provide consistent performance testing and implement a system for global compliance management to enhance collaboration with testing labs and vendors.

The TEXbase solution streamlines and automates materials management, testing and compliance in one simple, web-based system that also integrates into Product Management Lifecycle (PLM) systems. TEXbase allows Brooks Brothers to unify disparate sources of data into one central system that spans the complete lifecycle, from raw materials to finished product compliance. The system allows Brooks Brothers to collaborate with their garment makers, mills and labs for standardized testing protocols, quality testing and compliance documentation with automated production of General Certificates of Compliance.

Wayne Huyard , President, TEXbase - "TEXbase is honored to work with Brooks Brothers. Our partnership with Brooks Brothers will reduce cycle time, increase efficiency and continue to deliver against their brand promise. TEXbase is also integrating with the Brooks Brothers Product Lifecycle Management system to streamline their product development automation and collaboration process. TEXbase has helped Brooks Brothers unify their worldwide sourcing offices with a global compliance database to increase their visibility to workflow from concept to compliance, including real-time key performance indicator dashboards"

Joe Dixon , Senior Vice President Sourcing, Brooks Brothers - "With the increasingly complex demands of product safety and regulatory bodies both in our home and International markets, we needed a solution that could manage all of our product testing, compliance and aspects of our fabric development. We wanted to spread this workload across our overseas offices and our New York head office and being web based, TEXbase was an ideal vehicle. We also needed seamless integration with our PLM system to enable data to be entered only once. We believe that this system will position us well for the global

expansion that we have planned."

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## ***Hispano-Suiza, a Subsidiary of the SAFRAN Group, Extends its use of NCSIMUL Machine from SPRING Technologies***

4 April 2013

Part of the SAFRAN group, Hispano-Suiza is a Tier 1 supplier of hi-tech equipment, specializing in power extraction and management. It serves the civil and military aeronautic markets by designing, developing and manufacturing products, and offers in-house services focusing on two areas:

- Power transmission systems for airplane and helicopter engines
- Electrical equipment and systems, notably in the field of electronic power controllers for onboard electronic equipment

The company operates three industrial sites, two near the French capital, Paris, and one in Poland, and has a workforce of 1,200.

Strongly committed to providing technologies and systems for “more electric” aircraft, Hispano-Suiza aims to become a world leader in the entire onboard electrical energy system.

### **CHALLENGES**

The solutions developed by SPRING Technologies have been widely deployed across the SAFRAN group, ensuring seamless consistency in terms of exchanging information and integration.

For Hispano-Suiza in Poland, the human factor was essential in the choice of tools for the digitization of workshop processes. “To understand each other, you have to believe”, explains Norbert Quemerais, Representative & Coordinator in Poland – HSP Technical Advisor at Hispano-Suiza. “Our machining cycles on hard materials are long and our aim is to improve our operating value by machining as far downstream as possible, with JIT delivery to our customers. The balance is not easy to strike, but the ratio is important in a company’s organization.”

To factor in its needs and implement the NCSIMUL Machine and Optitool solutions, Hispano-Suiza Poland had to fully analyze its needs and technological and economic challenges. SPRING’s teams rose to these challenges on both the technological and human levels.

### **BENEFITS**

“We were looking for a 10% gain in machining time”, adds Norbert Quemerais. “This is very significant when you consider that, over a year, machine use amounts to hundreds of hours.” At Hispano-Suiza, NCSIMUL Machine has delivered an average gain of 10% and... “sometimes much more”, he confirms.

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However, Quemerais feels that the biggest gain is to have succeeded in reassuring and convincing the production teams at Hispano-Suiza in Poland. A partnership that has to be built and maintained day after day.

The next step: beyond simulation to machining optimization

“The next step for us will be to go further in optimizing vibratory frequencies. We have started work on this area and intend to develop, with the continuing support of SPRING’s teams.”

Norbert Quemerais concludes “Striking a balance between machines and materials is sometimes complex and NCSIMUL Machine helps us manage this better. The 10% gain delivered by simulating our tool paths before machining is substantial. Gaining the trust of our production teams in the SPRING solution has been primordial. Today, Jozef Cisek, our user workshop manager, is completely convinced.”

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## ***Intergraph® SmartPlant® Enterprise Selected for Use by Leading Clean Energy Technology Firm***

4 April 2013

Intergraph is pleased to announce that its Intergraph® SmartPlant® Enterprise has been selected by Babcock & Wilcox Power Generation Group, Inc. (B&W PGG), a subsidiary of The Babcock & Wilcox Company (B&W), as its strategic plant design suite for its boiler and environmental businesses.

B&W PGG, which engineers, procures, manufactures and constructs steam-generating systems and environmental systems for its utility and industrial customers, is now in production with SmartPlant Enterprise to support growth and competitiveness, ensure improved quality and productivity and reduce costs.

B&W PGG decided on SmartPlant Enterprise following an extensive two-year evaluation of its legacy tools measured against Intergraph's market-leading technology.

B&W PGG determined Intergraph's next-generation SmartPlant Enterprise, with its intelligent, rule-based technology and automation capabilities, is the ideal match for its needs and selected the integrated suite of SmartPlant Enterprise solutions, including SmartPlant 3D Materials Handling Edition, SmartPlant Instrumentation, SmartPlant Electrical, SmartPlant Foundation and SmartPlant P&ID, as well the SmartPlant Reference Data management environment and Standard Database for SmartPlant Reference Data.

B&W PGG chose SmartPlant 3D Materials Handling Edition because of the advanced plate modeling capabilities, which enable automated production of fabrication and erection drawings. The solution's

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unique capabilities, coupled with the standard specification database, rules and relationships, and integration with the SmartPlant Enterprise, were key to B&W's selection of SmartPlant 3D.

SmartPlant Enterprise's implementation and use in preparation for production required no customization and no configuration – simply installing the software as it was delivered. With Intergraph's guidance, B&W PGG initiated a pilot project in mid-2012 using SmartPlant Enterprise's out-of-the-box capability and successfully produced piping and instrumentation diagrams (P&IDs) and fully correlated 3D design.

"We see our standardization on Intergraph SmartPlant Enterprise as a strategic decision that will enable us to execute projects more efficiently and at a higher quality," said B&W PGG President and Chief Operating Officer J. Randall Data. "SmartPlant Enterprise is helping us establish more effective work processes and, ultimately, will help make us a more competitive business."

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "B&W PGG's selection of Intergraph SmartPlant Enterprise, and in particular SmartPlant 3D, validates that our solutions go far beyond what the company's legacy tools were capable of in terms of increasing productivity and quality while reducing costs."

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### ***Tableware Manufacturer Selects Integrated PLM/ERP from Visual 2000***

2 April 2013

Visual 2000 International Inc. (<http://www.visual-2000.com>) announces that PTS America, Inc. will implement the integrated Visual PLM.net® product lifecycle management and Visual ERP.net™ enterprise solutions at its New York headquarters. One of the world's largest vertical manufacturers of ceramic tableware, PTS will utilize the new software to manage product designs and specifications, purchasing and accounting, sales and distribution of its 222 Fifth®, Westbury Court®, Coventry, and private label brands. The company expects the new systems to streamline operations in its decoration department, increase overall process visibility and financial controls, and improve distribution and customer service.

"We started out looking for a system to manage silk screen development and other activities in our decoration department," explained PTS Executive Vice President Charles Gallagher. "Visual 2000 showed us how we could do that and much more with an integrated business system. They have the industry-specific capabilities and flexibility we needed right out of the box. This will make it possible for us to quickly increase speed and efficiency throughout our entire operation."

Visual PLM.net will be used primarily in the PTS decoration department, where original silk screens are developed for printing ceramic transfers with many unique special effects. Visual ERP.net will manage the company's financials, order-to-cash, supply chain, importing, and other key business processes. Warehousing and distribution tools in the system will be used to streamline the flow of information to and from the company's third-party logistics (3PL) operation. PTS expects to go-live on the new system

in the third quarter of 2013.

“We are honored to be selected by PTS,” noted Farhat Awan, Visual 2000 USA Sales Director. “With such a close alignment of customer needs and system capabilities, we are confident that they will quickly realize significant improvements. We are confident that they will continue to advance their business as they benefit from having all of their key operations and information in an integrated design-to-delivery system.”

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## ***TGRWA Invests in CSC's Fastrak***

3 April 2013

TGRWA, a long-standing US engineering company, has invested in CSC's steel building design software, Fastrak. Now available to all its engineers TGRWA aims to further increase efficiency by capitalising on the automated design and seamless BIM integration provided within Fastrak.

Jon Andrews, Principal at TGRWA said: “Fastrak offers superior integration with Autodesk® Revit®. We have been able to save huge amounts of design and drafting time as we only need to build one model, and we can easily pass the model back and forth with Revit® and see what has been changed during the design process. We have recently used Fastrak to model a 2 story office and retail building and are delighted to have saved so much time integrating with Revit – this has increased our productivity enormously.”

Stuart Broome, Vice President at CSC, said: “TGRWA will also benefit from the intuitive and automated design capabilities within Fastrak. They can design buildings using real objects - such as beams and columns - manipulate models easily and apply loading quickly. We are delighted that our software can help firms like TGRWA save time and resource, and gain a competitive edge.”

For more information regarding CSC's products visit [www.cscworld.com](http://www.cscworld.com). For information on TGRWA please visit [www.tgrwa.com](http://www.tgrwa.com)

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## ***Tofas Selects aPriori Product Cost Management Platform to Drive New Cost Efficiencies***

2 April 2013

aPriori announced that [Tofas, Turkey's largest automotive manufacturer](#), has selected the aPriori platform to help accelerate its cost engineering efforts and identify new product cost savings opportunities earlier in the product lifecycle. The company expects to realize new operational efficiencies and increase the productivity of its cost engineering team as a result. Tofas is aPriori's first customer in Turkey as it continues to expand its business across Europe.

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A joint venture of Fiat and Koc Holdings, Tofas is the leading manufacturer of passenger vehicles and light commercial vehicles in Turkey, with production capacity of 400,000 units per year. The company's state-of-the-art factory in Bursa manufactures vehicles for five different global brands and is recognized for world-class manufacturing excellence and energy efficiency. aPriori's platform will enable Tofas to standardize its product cost estimating process, bring more consistency and accuracy to its product costing efforts and improve its ability to design to cost. Users will be able to quickly understand the cost impact of different manufacturing conditions, locations and volumes. The software will also complement its costing abilities in specific areas such as machining and casting.

“In a capital-intensive business like automotive, the cost and time for rework and revalidation are very significant, so it's critical to understand the true cost implications of your product design, before you move into sourcing and production,” said Gökhan Aydoğan, cost engineering manager at Tofas R&D. “aPriori brings tremendous science and consistency to our product costing efforts and will help us better understand our product costs at the design phase. The platform incorporates years of experience in optimizing product costs and manufacturing processes and makes this expertise available to a large part of our organization.”

aPriori's Product Cost Management software platform helps companies attack cost at the point of origin by equipping design, engineering, sourcing and manufacturing professionals with the knowledge and technology infrastructure to quickly and precisely determine the cost of a part or complete product. The software leverages computer-aided design and intelligent cost models to quickly generate detailed manufacturing analysis and cost estimates and quantify the impact of changes to product design, materials, manufacturing processes, volumes and location. The software also enables users to leverage product cost data hosted in other critical enterprise applications to communicate product cost information between all functional organizations involved in product definition and delivery. This includes the import of complex engineering Bills of Materials (BOMs) from ERP, PLM or other enterprise applications.

“With aPriori, Tofas is building on its strong legacy of manufacturing efficiency and excellence,” said, Stephanie Feraday, aPriori president and CEO. “Tofas' cost engineering teams now have a powerful capability to access precise, real-time cost assessments for products and parts early in the product lifecycle and across a larger portion of their products. That translates into significant new opportunities to reduce product costs and accelerate cycle time.”

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## Product News

### ***3D Printing Inspires New Working Style in CAD/CAM Software Industry***

1 April 2013

3D printing, a process of making a three-dimensional image into a real object, is one of the most hottest and popular topics in the tech field. Due to its strong customizability as well as high efficiency, 3D printing has been adopted by companies in 3D modeling, mold design, and machining industries. [ZW3D](#) has taken 3D printing into consideration and enabled its [latest version](#) to help designers work more

easily and seamlessly with 3D printers.

## **Increased Efficiency in 3D Modeling Design**

3D printing allows designers and developers to progress quickly from virtual images in software to physical objects in reality and make adjustments and changes in a more intuitive way by judging real products rather than conceptual drawings. In addition, manufacturing process will be completed in a more cost-effective manner, instead of mould making and modification. A huge amount of molding fees can be saved for product innovation and development, helping to accelerate the product life cycle in 3D modeling industry. With the new Print3D function in [ZW3D 2013](#), designers and engineers can leverage the advantages of 3D printing to improve their working efficiency.

## **Easily Bringing Your Design into Reality**

As the 3D printing matures, this consumer-oriented technology has started to affect almost every aspect of our life, from small items like cells, food and medicine to large objects such as furniture and even buildings. Companies including MakieLab, Kodama Studios and Shapeways have created simplified Web services with which clients can make customized objects based on customization software. These services enable designers to easily print out their works after drawing without complicated a production process. Moreover, the size, shape, painting and material can be customized in their desired way, allowing designers to make unique creations and distinguish from the standardized products.

“With the launch of 3D printing technology, it now allows designers to see their designs in a more intuitive way.” said Colin Lin, Vice Director of ZW3D Overseas Business. “With the evolving technology and the increasing popularity of 3D printing, the seamless integration between design software and 3D printer will become a trend for 3D printing. Therefore, we want to establish a close connection with 3D printing in ZW3D, allowing designers to better leverage the 3D printing technology to improve product quality, boost design efficiency and facilitate prototyping and manufacturing as well.”

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## ***AI MAXTools Signs 3-Year License Renewal with Agilent Technologies***

3 April 2013

[AI MAXTools, Inc.](#) recently signed a 3-year license renewal with Agilent Technologies, giving Agilent access to AI MAXTools productivity tools for PTC Creo Elements/Direct. Agilent has been using products from AI MAXTools since 2003. In this latest renewal, Agilent increased its license count 25% over the previous year.

Included with all licenses is an ongoing engagement with AI MAXTools to maximize productivity and increase efficiency for engineering teams and individuals using the product. Deliverables include

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product training, customer support and response to enhancement requests, and performance coaching for engineering productivity. As a part of the Agilent engagement, AI MAXTools continues to deliver user-requested product enhancements and training webinars to engineers and designers.

The AI MAXTools Productivity Suite integrates seamlessly into the latest releases of PTC's direct modeling application, while still supporting previous releases for those that take a staged approach to upgrades. Paul Hamilton, PTC Creo Program Manager, notes that "AI MAXTools is a great add-on for anyone using PTC's Creo Elements/Direct. It downloads quickly, installs seamlessly, and provides powerful, easy-to-use functionality that can really increase productivity."

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## ***ASCON Releases a New Application for Conceptual Design on Mobile Devices***

4 April 2013

ASCON Group, developer and integrator of professional CAD/AEC/PLM solutions, is glad to present a new application for 3D modelling on mobile devices running the operating system Android. The add-on, called SubDivFormer, is available now free of charge through Google play store (<https://play.google.com/store/apps/details?id=com.ascon.subdivformer&hl=en>). A distinctive feature of the new tool - its versatility. SubDivFormer can be used both for engineering design and for children play.

The SubDivFormer release became a first ASCON step in entering the market of digital-design and product form design solutions on mobile devices. First of all, it is perfect for Tablet PC users. SubDivFormer used to create object images, products and arbitrary shape objects. Model obtained by the add-on is stored as an STL-file and transferred to the 3D-printer for rapid prototyping. For the forming of the model could be used following features:

- Extrude
- Intrude
- Subdivide
- Bevel
- Bump
- Split
- Bridge
- Merge
- Delete

How to transform a model:

- Move
- Rotate
- Scale

SubDivFormer is based on SubDivisionSurfase technology: model is described by a network of

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reference points, which can be approximated in a smooth shape algorithms. In a stage of working with a form there is no either body or surface, that provides easy and fast transformation (as only points are moving).

The work with SubDivFormer requires a device running Android version 2.3.3 or higher.

The application is perfect for two kind of users. First are professionals. With SubDivFormer engineers and designers will be enabled to work out the original image of the future products. The second category – amateurs, who will be able to use the application as an electronic designer or as a hobby. One of the developers tasks was to make the SubDivFormer interface so simple and intuitive, that even kind will be able to use it. For the young users the application can act as a "virtual plasticine", developing fine motor skills and spatial thinking.

The developers plans to launch SubDivFormer version also for iOS, application for KOMPAS-3D, and in the future to release a separate desktop application for Windows.

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## ***Bentley Releases OpenRoads Technology across InRoads, GEOPAK, MXROAD, and Country-Specific PowerCivil Products***

2 April 2013

Bentley Systems, Incorporated, today announced the immediate availability of the V8i (SELECTseries 3) releases of its [InRoads](#), [GEOPAK](#), and [MXROAD](#) products, and the forthcoming SELECTseries 3 releases of its country-specific *PowerCivil* products throughout 2013. All of the products now share the powerful and unifying capabilities of Bentley's *OpenRoads* technology, advancing through information modeling for multi-disciplinary roadway teams "BIM" objectives such as better design decisions, increased construction awareness, and interoperability for asset management. As a SELECTseries upgrade, *OpenRoads* technology uniquely provides a nondisruptive path to achieving these objectives while preserving users' investments in their existing civil engineering software, including previous releases of *InRoads*, *GEOPAK*, *MXROAD*, and country-specific *PowerCivil*. Moreover, it adheres to established required organizational standards for drawing, engineering specifications, engineering computations, and roadway design within – and, in the case of consultants, for – the numerous major civil owner-operators who have adopted and invested in Bentley's civil engineering software.

*OpenRoads* technology provides the common workflow, data structure, and modeling tools that civil engineering organizations need to meet today's information modeling and accelerated project delivery requirements. Among the rigorous requirements it supports are those of the U.S.'s Moving Ahead for Progress in the 21st Century (MAP-21) Act and the U.K.'s BS 1192 methodology for managing the production, distribution, and quality of construction information, which is crucial to implementing the U.K.'s [Government Construction Strategy](#) of May 2011.

Ron Gant, Bentley global marketing director, civil engineering and transportation, said, "Bentley civil

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software provides the most comprehensive design solution for all phases of the infrastructure lifecycle – from data acquisition, planning, analysis, and conceptual design to modeling, construction, operations, and maintenance. *OpenRoads* technology advances what’s possible in road design, construction, and operations through the use of industry-leading innovations including immersive modeling, *design-time visualization*, design intent capture and persistence, *hypermodeling*, information mobility across engineering disciplines and project phases, and construction-driven engineering. Moreover, it works purposefully with *persistent point clouds* and *scalable terrain models* – for example, concurrently with *Bentley Descartes V8i* (SELECTseries 3) and with *ProjectWise Point-cloud Services* to improve projects, including through automatic recognition of roadway features such as centerlines, ditches, and edges of pavement – and, of course, all files are easily managed in *ProjectWise*.

“This shared technology represents the next step in Bentley’s advancement of its civil engineering and transportation products as we continue to build on our hallmark of both practical *and* scalable information modeling software, now including comprehensive, unified, 100 percent 3D modeling software for roadway design for all of our civil engineering users.”

Michigan Department of Transportation’s (MDOT’s) Design Services Section was able to take an advanced look at the capabilities offered in Bentley’s new *OpenRoads* technology and evaluate it relative to the department’s current standard design platform, *PowerGEOPAK V8i* (SELECTseries 2). Rachelle VanDeventer, engineering services manager with MDOT, said, “Based upon our early evaluation of Bentley’s *PowerGEOPAK V8i* (SELECTseries 3), powered by *OpenRoads* technology, we are inclined to move rapidly towards implementation and department-wide use. There are apparent advances in the integration between survey and design with this technology, especially relative to the recent version of the software. We look forward to being an early adopter in order to realize exciting capabilities like the new civil cells functionality. This will allow us to create typical layouts and reduce repetitive work as civil cells can be used over and over with the advantage of the software retaining design intent and automatically updating to meet each design condition encountered.”

Mo Harmon, VP, director technology deployment team – incubation, HNTB, said, “HNTB’s Incubation Center, as part of the *OpenRoads* technology preview/beta program, believes that the technology is aligning well with the concept of virtual design and construction. Workflows are becoming more integrated across disciplines, and we expect a key benefit around revision times in both design and production.”

## **Advantages of *OpenRoads* Technology**

The V8i (SELECTseries 3) releases of Bentley’s *InRoads*, *GEOPAK*, *MXROAD*, and country-specific *PowerCivil* products, empowered by *OpenRoads* technology, help engineers and designers to:

- work with any data available for their design or survey projects as a result of enhanced data acquisition – From photogrammetry to total station surveys, GPS, LiDAR, and point clouds, the new releases can upload the data and analyze and manipulate it, all while ensuring the original data’s provenance.
- enhance conceptual and preliminary design – The new offerings combine rich analysis with the ability to view and visualize data all in one package. They include constraint-driven templates, a

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context-sensitive, intuitive interface, geospatial analysis, and a dynamic 3D modeler. Users can visualize the design at any time and on demand within the modeling workflow, with no translations, software, or special workflow processes required.

- make design decisions while building dynamic models – The interactive, dynamic, intelligent modeling of roadway components enables users to create information-rich models, with no user programming required. All design, editing, and decisions are provided in all views of plan, profile, cross section, and super diagram.
- quickly and cost-effectively respond to road rehabilitation projects – The new releases include 3D information modeling tools such as 3D parametric modeling capabilities that allow interactive design and review in a synchronized viewing environment. Information-rich modeling tools integrate with CAD, mapping, GIS, and even business tools like 3D PDFs, empowering engineers to make the most of their acquired knowledge while supporting traditional, proven methodologies.

## Benefits of *OpenRoads* Technology

Additionally, the new V8i (SELECTseries 3) releases of Bentley's *InRoads*, *GEOPAK*, *MXROAD*, and country-specific *PowerCivil* products:

- ensure project engineering accuracy with embedded design intent that maintains associations and relationships between civil elements; object information, including how, where, and by what method it was created, is stored with each object to ensure the original intent is retained and honored in the design;
- facilitate better design decisions with *design-time visualization* that enables users to view designs at any time, on demand, within the modeling workflow; no translations, software, or special workflow processes are needed;
- improve design quality via immersive modeling by combining plan, profile, and cross-section workflows with innovative 3D modeling technology; the further addition of parametric design features that allow users to incorporate rules, relationships, and constraints into the modeling workflow provides incomparable modeling capabilities;
- increase productivity with integrated corridor and site design so that sites can now automatically respond to any modifications to corridor conditions; since all aspects of the design are stored in the model, relationships in the design are automatically recognized by other objects;
- accelerate design production with civil cell functionality that helps engineers repurpose common 2D and 3D geometric configurations in design layouts; design, constraint, and relational intelligence are maintained between elements to ensure design standards.

For additional information about the V8i (SELECTseries 3) release of:

- *InRoads*, visit [www.bentley.com/inroads](http://www.bentley.com/inroads);
- *GEOPAK*, visit [www.bentley.com/geopak](http://www.bentley.com/geopak);
- *MXROAD*, visit [www.bentley.com/mxroad](http://www.bentley.com/mxroad);

The country-specific *PowerCivil* products will be rolled out throughout 2013 as they are localized.

Watch for news on their availability at [www.bentley.com/PowerCivil](http://www.bentley.com/PowerCivil).

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## ***BETA CAE Systems S.A. Announces the new v14.0.3 Release of the ANSA & μETA Pre- & Post-Processing Suite, with Enhancements and Code Corrections***

4 April 2013

BETA-CAE system S.A. announces the release of v14.0.3 of their ANSA & μETA pre- and –post processing suite with known issues resolved and with enhancements in the existing tools.

### **Enhancements and Known Issues Resolved in ANSA Pre-processing**

- The option “Calculate offsets and orientation of beams” would affect the visibility of the cross sections
- The PENT15 solid elements were exported corrupted when the output file was set to IMPLICIT ANALYSIS (for PAM-Crash)
- Long SET names would not be written correctly on the .dat file when outputting for PERMAS
- HEXA-CONTACT would use wrong solid facets to fill the slave SET in PAM-Crash
- Occasionally the perimeter nodes would move in Batch Meshing
- Some mid-nodes (2nd order) of solid elements were not reported in checks neither as tied nor as unified
- Translator parameters could lose the coordinate system for databases saved in 13.x versions

### **Enhancements and Known Issues Resolved in μETA Post-processing**

- The modal Response tool now supports multiple response DOFs from different components
- μETA would terminate when loading Nastran Mechanical and Sound Intensify results
- VDI results for shell elements were not correct for Abacus analyses
- Ensight results were not read correctly in certain cases
- Fluent moving-mesh results were not read correctly
- Fixed issues with “NVH tools” user toolbars
- The Bus Rollover toolbar could not be used in v14.0.2

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## ***BobCAD-CAM Launches New Education and Resource-based CAD/CAM Software Website***

29 March 2013

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CNC Programming software company, BobCAD-CAM, recently launched a new website called CAD/CAM Software: The Source for CNC Professionals. The goal of the site is to educate shop owners, machinists, and manufacturers on all of the different aspects of cad-cam software and create an environment where CAD/CAM users feel comfortable sharing stories, asking for advice, and learning from each other.

The new website provides ample resources for cad-cam users of all levels, from beginner to expert, and even those that don't have a cad cam system yet but are looking to purchase one.

Visitors to the site can find an explanation of [what cad cam software is used for](#) and how it works, as well as the benefits of using cad-cam software and how implementation can improve workflow in any machinist's shop. The site also offers a free download for a white paper that walks new shop owners, or shops looking to upgrade, through the process of selecting the perfect cnc programming system for their shops.

Users that register for the new site can participate in [forum discussions](#) that cover topics such as various software features, cnc machining, design and programming help, and recent cad/cam news.

CAD/CAM Software also has a library of other great resources, including instructional software videos, success stories from cad-cam users, and a photo gallery.

To learn more about CAD/CAM Software and join the discussion, visit [cadcamssoftware.com](http://cadcamssoftware.com) today.

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## ***CADLearning Releases Enhanced eBook on AutoCAD 2014 New Features***

4 April 2013

4D Technologies, Autodesk Authorized Publisher and maker of the CADLearning products for Autodesk software, released today a new [CADLearning eBook Series](#) title for AutoCAD 2014. The AutoCAD 2014 New Features and Enhancements – Revealed! title is over 140 pages and contains 38 lessons which include embedded videos, text, images and interactive galleries.

The e-book is now available to AutoCAD users looking to learn about the latest release of AutoCAD software from Autodesk. Topics include lessons covering the new and enhanced functionality on user interaction, design exploration, documentation, connection and customization.

Visit <http://www.cadlearning.com/autocad-2014-new-features> to view sample videos and get access to a streaming version of the e-book or download a copy to your desktop. This new e-book will also be made available for iPad users in the iTunes Bookstore in the coming weeks.

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## *Dell Introduces Automated Workstation Software to Improve Application Performance*

2 April 2013

[Dell](#) announced Dell Precision Performance Optimizer (DPPO), the software that automatically configures Dell Precision workstation settings to maximize performance of engineering, design and digital content creation applications. DPPO is preloaded with profiles for popular applications such as Autodesk Maya, PTC Creo and Dassault SolidWorks and once activated automatically adjusts system settings to optimize performance. Additional features include proactive system maintenance and tracking and reporting of system utilization – helping Dell Precision customers enhance and speed up their design and render times.

[Dell Precision Performance Optimizer](#) is an extension of Dell’s existing workstation tools designed to provide customers maximum performance and dependability so they can remain focused on being creative. For example, as part of the [Dell Precision Technology Program](#), Dell engineers work closely with technology partners to architect, design and test joint solutions providing customers assurance that their hardware is compatible and optimized for their software. Dell also develops and provides recommended configurations for customers’ specific software and workflows through the [Dell Precision Workstation Advisor](#). Dell Precision Performance Optimizer is the next step in Dell serving as the trusted advisor to help customers maximize efficiency and productivity.

Dell Precision Performance Optimizer offers three main features to enable comprehensive yet simplified system optimization and eliminate the guesswork from adjusting system settings:

- **Automatic Performance Optimization** - DPPO comes preloaded with predefined performance profiles for popular applications such as Autodesk Maya, PTC Creo and Dassault SolidWorks. Unlike other tools, once activated, the software automatically adjusts system configurations such as CPU, memory, storage, graphics and operating system settings whenever a supported application is launched. This allows workers to quickly improve workstation performance when switching between applications and projects, like moving from rich animation projects to detailed CAD design. Based on Dell testing and benchmarking, users can experience up to 57 percent increase in application performance<sup>1</sup> with DPPO.
- **System Maintenance** – IT professionals and users can gain greater control and knowledge of their system through automated or manual updates for new drivers, BIOS, application software, firmware and other vital components. This helps ensure systems are running optimally and increases user productivity.
- **Tracking & Reporting** – The application also includes advanced tools to analyze and model system utilization such as how much free memory is available, processor utilization, thermal sensor data, battery state and more. Detailed reports can be scheduled to run and analyze system utilization at any time, even during intensive tasks like compiling code or rendering frames.

“We’re excited to continue introducing innovative new solutions like Dell Precision Performance Optimizer that empower our customers with uncompromising performance, dependability and design,”

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said Efrain Rovira, executive director of Dell Precision. "From hardware design to software enhancements, we are always looking for new and meaningful ways to make our workstation customers more productive."

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### ***InfiniteSkills "Learning Autodesk AutoCAD Electrical 2014 Training Video" Targets Program's Design Power for Electrical Engineers***

5 April 2013

Software training firm InfiniteSkills Inc. last week introduced its "Learning Autodesk AutoCAD Electrical 2014 Tutorial," a course designed to assist engineers in learning the version of AutoCAD targeted for use in electrical design.

AutoCAD Electrical 2014 is a version of the regular AutoCAD program, including all the capabilities for 2D and 3D drawing of the regular AutoCAD program, plus a complete set of features specifically for electrical design, including a comprehensive symbol library and tools for automating electrical design tasks.

InfiniteSkills' Learning Autodesk AutoCAD Electrical 2014 Training Video teaches how electrical engineers can focus AutoCAD's power for electrical design quickly and effectively, teaching AutoCAD fundamentals as well as electrical tools with clarity and precision.

Course author Shaun Bryant is a training consultant with 20 years of hands-on experience as an AutoCAD user in civil and structural engineering practice. He has worked for Autodesk in sales support and training, and is currently an Autodesk Approved Instructor holding AutoCAD 2013 Certified Professional status. Bryant currently provides AutoCAD training and consultancy professionally.

Free demo videos and a full list of course contents can be found on the Learning Autodesk AutoCAD Electrical 2014 training page of the InfiniteSkills website:

<http://www.infiniteskills.com/training/learning-autodesk-autocad-electrical-2014.html>

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### ***IQMS Announces SolidWorks PDM Add-in***

2 April 2013

[IQMS](#) announced the release of its [SolidWorks](#)<sup>®</sup> product data management add-in. From within the SolidWorks menu, users can link parts, tools and other assembly file details and configurations to create engineering change orders (ECOs) and cross-populate the inventory, bills of material (BOMs), project

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management and preventative maintenance modules in EnterpriseIQ for increased productivity and elimination of data inconsistency.

SolidWorks is an established CAD application with powerful 3D design capabilities. With more than two million SolidWorks licenses on the market today, manufacturers around the globe are utilizing the SolidWorks 3D rendering tools to create, simulate, publish and manage product data, parts and tools.

EnterpriseIQ's interface with SolidWorks is unique: Unlike many other offerings that attempt to synchronize the CAD platform with ERP software (eliminating redundant data entry, but still requiring a separate linking program and its associated challenges), IQMS actually works from within the CAD software. IQMS is not interfacing with the SolidWorks program, it *is* the program.

Additionally, IQMS is delivering a higher level of discipline into SolidWorks' document control by incorporating the secure document and revision control system features already developed in EnterpriseIQ. Now, from inside SolidWorks, users can use the EnterpriseIQ document control system to check documents in and out to avoid overwriting changes, create workflows to ensure that sign-offs occur in a timely manner, manage document libraries, view and print SolidWorks PDFs from within EnterpriseIQ and track document history.

"Projects such as this SolidWorks add-in are developed from the direct request of customers," said Glenn Nowak, vice president at IQMS. "We strive every day to foster our customer relationships by listening to our manufacturers' needs and automating processes to make them more accurate or save time. As an added bonus, when we develop for one, we develop for all, so our other IQMS clients can also now benefit from all that the SolidWorks add-in has to offer."

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## ***Latest Release of Siemens' Syncrofit Reduces Airframe Design Processing Time by 40 Percent***

2 April 2013

The latest release of Siemens' Syncrofit™ software introduces new fastener layout and part sizing functionality which helps airframe engineers reduce the time to generate fastener patterns, perform initial part sizing, validate designs and adapt to subsequent design changes by as much as 40 percent. The new version (Syncrofit 13) eliminates the need for manufacturing engineers to manually verify that the hundreds of thousands, possibly millions, of fasteners in an airframe structure are properly consumed according to plan and that the assembly meets design requirements. Syncrofit 13 also expands integration with Siemens' Teamcenter® portfolio. Syncrofit, which is used for designing and manufacturing complex assemblies and large aerostructures, is an offering of Siemens' product lifecycle management (PLM) software business unit.

Traditional methods for consuming airframe fasteners into manufacturing plans were extremely tedious and often the source of costly errors and rework on the shop floor. Syncrofit 13 strengthens Siemens'

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product portfolio for airframe development by integrating its production-proven Airframe Manufacturing Environment (AME) module into NX™ software, Siemens' integrated computer-aided design, manufacturing and engineering analysis (CAD/CAM/CAE) solution. AME, which is also integrated with the CATIA® software V5 CAD system, enables engineers to digitally define the changing state of parts as they progress through the various stages of airframe assembly. This addresses critical needs of airframe manufacturers as they strive to reduce development costs, improve product quality, and meet aggressive schedule targets.

Syncrofit 13 also includes expanded integration capabilities with Teamcenter. This allows users to automatically associate and manage data for automated manufacturing assembly processes, eliminating time-consuming and error prone manual processes. It also reduces the chance of using outdated manufacturing data, which can result in excessive scrap and rework.

“Enhancements in Syncrofit 13 help improve productivity by further integrating with CAD and PLM software, eliminating manual methods for consuming engineering data for hole and fastener requirements. This is crucial to efficiently developing aerostructures and making smarter design decisions,” said Steve Luby, Senior Vice President, Specialized Engineering Software, Siemens PLM Software. “Syncrofit 13 now provides full traceability from design to manufacture to help engineers deliver better products faster and more efficiently.”

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## ***CADLearning Releases Enhanced eBook on AutoCAD 2014 New Features***

4 April 2013

4D Technologies, Autodesk Authorized Publisher and maker of the CADLearning products for Autodesk software, released today a new [CADLearning eBook Series](#) title for AutoCAD 2014. The AutoCAD 2014 New Features and Enhancements – Revealed! title is over 140 pages and contains 38 lessons which include embedded videos, text, images and interactive galleries.

The e-book is now available to AutoCAD users looking to learn about the latest release of AutoCAD software from Autodesk. Topics include lessons covering the new and enhanced functionality on user interaction, design exploration, documentation, connection and customization.

Visit <http://www.cadlearning.com/autocad-2014-new-features> to view sample videos and get access to a streaming version of the e-book or download a copy to your desktop. This new e-book will also be made available for iPad users in the iTunes Bookstore in the coming weeks.

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# CIMdata PLM Industry Summary

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## *RGK Russian Geometric Kernel Celebrates First Full-Featured Version*

2 April 2013

STANKIN Moscow State Technological University and its contractors, Top Systems and LEDAS, announced the completion of a major milestone in creating the made-in-Russia 3D geometric modeling kernel, RGK. For the first time since the R&D project began, a full-featured version of the software was assembled. It is scheduled to be presented at COFES Russia 2013, the congress on the future of engineering software taking place at the end of May in Saint Petersburg, Russia.

RGK is a three-dimensional geometric modeling kernel that consists of a set of high-tech software components. This software is being developed as a part of a program for advancing the national engineering capabilities of Russia. It is necessary for Russian industry to create innovative products that are competitive on the global market. It will be the basis for computer applications that perform design work in the areas of mechanical and architectural design, manufacturing, engineering analysis, and product data management.

“The scope of research and development that we are carrying out faces tight deadlines, and so we engaged several Russian CAD software companies and academic teams to undertake those parts of the project in which they are the most competent,” says Alexander Andreev, STANKIN vice-principal for development. “We paid special attention to working out the methods and architecture that underlie a complex computer system such as this one. Now that the first version of the 3D kernel is ready, we will for the next several months focus on tuning it. In particular, we will concentrate on enhancing the performance and overall quality of this new software product.”

“One of the most important achievements of our project was combining the efforts of a significant number of competent companies and individual experts in the field of geometric modeling and computational geometry under a tight schedule,” points out Sergey Kozlov, chief technology officer of Top Systems. “In a sense, this important project and its outcome are a unique achievement that undoubtedly will have good prospects.”

“The most significant practical tasks carried out by our company was the development of the general architecture of the 3D kernel enabled by modern multi-core platforms and graphical computing devices,” continued Mr. Kozlov. “The result will be the ability to develop end-user applications that run on many platforms and operating systems. As the developer of the project architecture, our company adopted the roles of analyst, coordinator of collaborative source code work, and arbitrator in selecting the variety of technological solutions put forward by project participants. Our company, together with LEDAS, will be demonstrating the advantages of Russia’s new 3D kernel at COFES Russia.”

“LEDAS has more than ten years experience in working with the international market, both in developing our own high-technology product (LGS geometric solver) and in completing high-tech projects commissioned by leaders of the global CAD market,” explained Nikolay Snytnikov, chief operating officer of LEDAS. “In the development of this new-generation Russian 3D modeling kernel, we are using our knowledge and experience to solve complex tasks in computational geometry. For

instance, we can handle calculating the intersections of arbitrary 3D surfaces and bodies, detecting collisions, calculating distances, and achieving high speed performance using NURBS objects.”

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## **TransMagic Releases New R10 Products for Windows 8**

2 April 2013

TransMagic Inc., announced the release of the new R10 product line. The highly anticipated release includes new features, functionality and products, tailored to improve process efficiency involving complex CAD models.

### **New TransMagic R10 Products**

- **TransMagic PRO** – An engineer’s tool for precise data translation. With automated geometry repair, retain ‘solid’ model conditions, assembly hierarchy and mass properties.
- **TransMagic EXPRESS** – A streamlined interface that anyone can use. An efficient CAD translator with automated surface stitching and geometry repair.
- **TransMagic CREATIVE** – Views and converts all major CAD formats to the highest quality polygonal formats, including STL, PLY and OBJ. Used in various industries from rapid prototyping to video game development and the entertainment industry.

TransMagic R10 includes the updated release of **MagicCheck**. Excellent for 3D geometry comparison of any major 3D CAD or point data formats. MagicCheck is built for model validation, revision management and QA/QC reporting. Easily perform detailed analysis and documentation for quality assurance standards such as Boeing Document D6-51991, *Quality Assurance Standard for Digital Product Definition (DPD)*.

### **New Formats, Features and Functionality**

TransMagic R10 comes packed with new features, formats and functionality. As the design and manufacturing industries continue to evolve, TransMagic supplies novel cutting-edge tools.

### **New Supported Formats**

- DWG up to 2013
- CATIA V6
- PNG, JPG and BMP

### **New Features and Functionality**

- **Product Manufacturing Information (PMI)** – Includes enhanced support for additional PMI entity types to assist manufacturing engineers moving to Model Based Definition

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(MBD).

- **Speed** – R10 speed enhancements increase translation performance by two to three times.
- **Enhanced Assembly XML Output** – TransMagic offers new data output options for assembly data in XML format. ‘Atomize’ assemblies, surface area, mass properties and bounding boxes can be added to the XML output making large complex assemblies easier to use.
- **International Compatibility** - TransMagic serves many multi-national corporations. R10 has been completely rewritten with UNICODE multi-byte character support to simplify data sharing around the globe.
- **Micrometer** - The new Micrometer enables pinpoint thickness information anywhere on a part. It is as simple as “Hover-and-Click”.
- **“Boxed” Level of Detail (LOD)** – The “Boxed” LOD ensures constant rendering performance and frame-rate when working with large assemblies to create fluid motion and rotation. The new LOD setting improves performance and reduces wait time.
- **Windows 8 Support** – Upgrading to the highly requested Windows 8 platform has resulted in massive performance increases. The “re-skinned” interface offers a new look, aligned with the new Microsoft Windows 8 Desktop.

## Updated CAD Version Support in R10

TransMagic proactively updates supported file formats to the most recent version, ensuring customers access to all major CAD program data and maximum 3D CAD data usability. New CAD format version support includes:

- CATIA V5 R23
- NX UG 8.5
- Creo 2.0
- SolidWorks 2013
- JT 9.5
- Parasolid 25.0
- Inventor 2013
- ACIS R23

Why so many new products and features in TransMagic R10? TransMagic is the solution that enables you to address complex CAD data issues today. Download, install and use right now. With virtually no learning curve and the latest technology available, TransMagic aims to eliminate barriers and inefficiencies for a wide range of engineering processes. TransMagic R10 makes using 3D CAD data easy.

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