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## CIMdata News

### ***BIOVIA, Newest 3DEXPERIENCE Platform Extension***

1 July 2014

#### *Key takeaways:*

- *Dassault Systèmes expands the 3DEXPERIENCE Platform with its latest brand, BIOVIA, which is focused on supporting the development of biological and chemical materials at the molecular level*
- *BIOVIA consists of Accelrys, the recently acquired scientific innovation lifecycle management (SILM) solution provider, and results from an internal research project, BioIntelligence*
- *BIOVIA's solutions offer capabilities that extend the 3DEXPERIENCE Platform and broaden the support of the life science and material development markets*

The Accelrys user conference, Accelerate 2014, was held May 21-23 at the Grand Hyatt hotel in Washington, DC. A crowd of over 300 customers, partners, and Dassault Systèmes staff attended to discuss the latest products and services from Accelrys as well as industrial and academic applications presented by customers. Industries represented included chemical, pharmaceutical, and food and beverage from around the globe. Many academic institutions were also in attendance. Fifty-five presentations from companies like Amgen, Colgate, DuPont, and Merck, and academic institutions like MIT and Purdue were delivered and showed how the Accelrys solutions are being used to solve real problems and develop products. In the two days prior to the conference general sessions, Accelrys offered product training sessions.

Mr. Max Carnecchia, CEO of Accelrys, reviewed some of the achievements from the past year including:

- ScienceCloud—A software-as-a-service (SaaS) information management and collaboration workspace for drug discovery
- Qumas—A recent compliance and quality management solution acquisition
- ChemSW—An acquired solution to support environmental and health & safety compliance

In addition to the new product and acquisitions, Accelrys released over 200 updates to its broad range of products in 2013. A key theme of the conference was “Better science, better products.” The Accelrys

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solutions support scientific or formulated product development from the conceptual modeling stage through development, testing, compliance, and production.

Mr. Bernard Charlès, CEO of Dassault Systèmes, then joined Mr. Carnecchia on stage. Mr. Charlès described how he engaged with Mr. Carnecchia over two years ago, and how it ultimately led to the acquisition. He then announced the new name for Accelrys, BIOVIA, which will also include a 5-year R&D program at Dassault known as BioIntelligence. According to Mr. Charlès, BIOVIA starts out as number one in the market with a mission to “Provide a scientific collaborative environment for advanced biological, chemical, and materials experiences. The sophisticated enterprise system of modeling, simulation, laboratory, and quality management enables innovation for science-based industries”.

Dassault Systèmes has made a large investment to support the biological, chemical, and materials industries by extending its 3DEXPERIENCE Platform. A common platform can enable better collaboration across disciplines and support the integration of formulated product elements with the rest of the product definition, an area where CIMdata has seen a lot of interest over the past few years. This integration should help reduce product development costs and timing and improve regulatory compliance.

Accelrys made many acquisitions over the past few years, and while many releases, updates and patches were delivered in 2013, they recognize this is not sustainable. A major effort is underway to migrate from their current product portfolio to a platform strategy with integrated applications. Accelrys understood that this cannot happen overnight and has a roadmap known as the Product Plan of Record (PPOR) that describes the current releases, the next release, and the release to follow that. It shows the compatibility between solutions. This will help customers better plan which releases to deploy to meet their business requirements while avoiding interoperability surprises.

Ultimately, BIOVIA will have a product convergence where there will be a unified user experience, integrated modular applications, based on a scalable, secure, manageable, extensible foundation within the 3DEXPERIENCE Platform. Updates to the PPOR will help customers’ upgrade strategy and the convergence should simplify the user experience and make business processes more effective. CIMdata is confident that Accelrys customers will end up with a capable, stable, and efficient Scientific Innovation Lifecycle (SILC) platform.

The Lab of the Future initiative was presented as a key strategy to improve scientific innovation by enabling virtual and physical lab testing in a common environment. Using simulation to build virtual product models and then executing virtual tests can screen more products quicker at a lower cost. The products that pass the virtual tests and meet target requirements move on to physical testing for formal validation. In addition to this core capability, social interactions will be integrated to support better communication. BIOVIA demonstrated their vision of the lab of the future by staging a skit complete with props and backdrops meant to represent the lab of the future, LabOne. It showed how team members interacted to submit a lab request, process it, and make decisions about how the business should move ahead. It went well beyond the typical Laboratory Information Management System (LIMS) to give lab users a fun and functional experience, independent of the device being used. Phones, tablets, laptop, desktop, and interfaces to test equipment were all demonstrated within a secure workflow supported by comprehensive data management.

Dr. David B. Agus, MD, a leading cancer physician, pioneering biomedical researcher, and author of *The End of Illness*, gave an interesting talk about science and health. He reviewed many statistics and studies and talked about how to be healthier. One statistic that hit home in this audience of office workers was that five hours of sitting has a negative effect on the human body equivalent to smoking

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one pack of cigarettes per day. He personally uses a standing desk with a treadmill at least two hours a day while working on a computer. According to Dr. Agus, many of today's common health recommendations, such as taking vitamins, are not supported by data. Or, where there is data, the picture is incomplete because not all appropriate metrics are tracked. He is excited by the applications of technology to the healthcare system, and agreed with the BIOVIA premise that better modeling and better testing will lead to better products that improve the quality of life.

BIOVIA and their customers delivered a wide range of presentations across four parallel tracks:

- Process Management and Compliance
- Life Science Research
- Chemicals, CPG, Food & Beverage, Materials
- Enterprise Platform

Many of the presentations showed how the BIOVIA solutions were impacting real issues in healthcare like developing treatments for cancer, and environmental issues. The customers were excited about their Accelrys solutions and looking forward to BIOVIA's future developments. The BIOVIA team presentations included case studies and strategies for getting more value from applications.

The Product Showcase & Partner Gallery enabled BIOVIA and its partners to give live demonstrations on their solutions. Attendees got to see a wide range of capabilities and discussions with experts offered a learning experience that could help them expand capabilities within their organizations.

CIMdata believes that Dassault Systèmes' acquisition of Accelrys is a major expansion of the 3DEXPERIENCE Platform. Accelrys users are very satisfied with their solutions and excited about the potential that was presented by the BIOVIA team. A wealth of information and knowledge was exchanged in the keynotes, tracks, and during the social time. CIMdata was impressed by the confidence of BIOVIA and believes that Dassault Systèmes has the vision and resources to enable BIOVIA to have a large impact on science-based organizations. We are looking forward to seeing the progress made at next year's conference.

## **About CIMdata**

CIMdata, an independent worldwide firm, provides strategic management consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM). CIMdata provides world-class knowledge, expertise, and best-practice methods on PLM. CIMdata also offers research, subscription services, publications, and education through international conferences. To learn more about CIMdata's services, visit our website at <http://www.CIMdata.com> or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 734.668.9922. Fax: +1 734.668.1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands. Tel: +31 (0) 495.533.666.

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## ***The Role of Modeling and Simulation in the Experience Economy: An Update on Dassault Systèmes' SIMULIA Brand***

2 July 2014

### *Key takeaways:*

- *Dassault Systèmes' has made significant progress in refining and implementing their next generation strategy and platform for "realistic simulation"*
- *Performance simulation technology from SIMULIA, CATIA, and the new BIOVIA brand portfolio is a key element and enabler of Dassault Systèmes' 3DEXPERIENCE strategy and platform*
- *The ultimate goal and the challenge for Dassault Systèmes is delivering their robust simulation technology not only to the traditional SIMULIA analysis specialists, but making the results of simulation best practices available to and readily consumable by the broader base of engineers and management within the 12 major industry segments that they serve*

Dassault Systèmes held their annual SIMULIA Community Conference, an international event, from May 19-22 in Providence, Rhode Island. The agenda included keynote briefings from Bernard Charlès, CEO of Dassault Systèmes, as well as the executive team of SIMULIA including Scott Berkey, CEO of Dassault Systèmes Simulia Corporation.

Passionate and engaging as always, Mr. Charlès kicked off the event by updating the audience of over 700 attendees on the company's 3DEXPERIENCE vision and platform strategy. A common concept used throughout his talk and the other SIMULIA keynotes was the "Experience Economy," and the positioning of SIMULIA as the "realistic simulation brand." The goal according to Mr. Charlès is "using the virtual universe to improve the real one." He essentially presented the 3DEXPERIENCE as the Scientific Method, enabling hypotheses of the real world to be explored, simulated, and tested in the virtual world. He emphasized that the 3DEXPERIENCE is a cloud-native, business platform focused on enabling better decision making by all enterprise stakeholders through the judicious use of enterprise knowledge and product information, including performance simulation technology—a key link between the virtual and real worlds. The market trends highlighted as business drivers for 3DEXPERIENCE were:

- Increasing product diversity and satisfying consumers' desires for mass customization
- Companies' needs to collaborate globally in developing new products
- The need to continuously develop and deliver quality products faster
- The rapidly accelerating move to "smart products" and the Internet of Things

Other SIMULIA speakers reinforced these points from the perspective of the role of simulation and analysis in achieving these business objectives. They highlighted the need to integrate simulation more strategically into the enterprise business processes, leveraging the value of simulation to drive from market requirements to functions to the logical and physical design. Capturing and automating multi-physics simulation processes and sharing simulation results across the broader enterprise were highlighted as enablers to achieve these goals, and have led to the development of the initial 3DEXPERIENCE simulation applications:

- ABAQUS Structural Mechanics Simulation

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- ABAQUS Dynamics Simulation
- ABAQUS Fluid Mechanics Simulation
- Simulation Physics Results Reporter & 3DPlay Simulation Extension

The Dassault Systèmes presenters also reinforced to the audience, comprised primarily of advanced analysis specialists, that their current SIMULIA tools, which they know and rely upon (e.g., ABAQUS, ABAQUS CAE, Isight and SLM), would definitely not be going away and could still be used in their current forms independent of the new 3DEXPERIENCE Platform. Scott Berkey and his management team all reinforced that SIMULIA would continue to invest heavily in R&D for the new multi-physics and multi-scale simulation features and capabilities needed to deal with systems of increasing complexity and to extend their solutions to add time and spatial scales to analysis fidelity, as well as deal with massive parallel computing (>1000 CPUs). In CIMdata's opinion, this is perhaps the greatest challenge that the Dassault Systèmes team faces. Even though they plan to use the same highly regarded SIMULIA solvers and meshing technology in the 3DEXPERIENCE Platform, they now have another user experience and graphical deployment environment that they must invest in and maintain in addition to their "classical" modeling environments, such as ABAQUS CAE, Isight, FE-Safe, and TOSCA. This requires additional software R&D resources and infrastructure as well as new skill sets to develop web-native and mobile applications in addition to the more traditional engineering desktop applications.

During the event, there was a formal announcement of the completion of the acquisition of Accelrys and the creation of a new Dassault Systèmes brand—BIOVIA. The Accelrys technology brings robust capabilities for modeling and knowledge management of biological and life sciences systems and materials. This opens up a new dimension to modeling and simulation at the atomic and nano level, often referred to by Mr. Charlès and the Dassault Systèmes team as "micro-scale." It was stated that the SIMULIA team would be working closely with the BIOVIA team to cross-leverage their respective technologies to extend multi-physics and multi-domain modeling and simulation all the way down to the "micro-scale" for applications in the life sciences and medical devices industries. The impact of this acquisition is that BIOVIA brings chemistry and non-continuum physics capabilities for materials and process modeling into the SIMULIA toolbox of simulation capabilities. In CIMdata's opinion, this will prove to be very significant as simulation extends into human body modeling for applications such as crash safety, predictive life sciences and medical devices, and for materials integrated as part of a customized product design. Adidas, for example, presented a vision where a shoe is made for a particular athlete, and the precise properties of the sole are tailored by the way the polymer materials are processed during manufacture of that particular shoe.

Of particular note in this area is the research work being performed on the Living Heart Project (<http://www.3ds.com/products-services/simulia/solutions/life-sciences/the-living-heart-project/>) by a consortium including leading research universities such as Stanford and MIT, medical device manufacturers such as Medtronic, and the SIMULIA team. The mission of this research project is to develop and validate personalized digital human heart models and establish a unified foundation for cardiovascular in silico medicine (aka "computational medicine"). These models can serve as a core technology base for education and training, medical device design, testing, and [regulatory science](#); thereby creating a path for rapidly translating cutting edge innovations into improved medical diagnostics and patient care. In CIMdata's opinion, extending traditional product performance modeling and simulation tools into the biological and chemical domains at the atomic level is groundbreaking work and holds great promise to benefit humankind. We applaud the efforts of the SIMULIA team in spearheading this forward thinking effort and look forward to seeing the positive impact of this next generation modeling and simulation activity on patient care.

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Several other SIMULIA customers including Pratt & Whitney and MIT presented keynotes highlighting their current use of traditional SIMULIA technologies such as ABAQUS, Isight, and TOSCA as well as their future strategy, requirements, and plans for extending their use of simulation into new product areas with the 3DEXPERIENCE Platform. An underlying theme of the event, expressed by SIMULIA and their customers alike, is to integrate simulation into the business process by delivering a “business experience” platform. Process orchestration (Isight) capabilities and results analytics (data mining) and visualization are built into the base 3DEXPERIENCE Platform, making it much easier for those who are not traditional CAE experts to leverage simulation tools and results. Further, the 3DEXPERIENCE Platform will enable the model-based systems engineering process chain of RFLP (Requirements, Functional, Logical, and Physical models) to more closely link simulation to the definition of the conceptual product architecture.

Overall, this was an excellent event, with a compelling strategic vision for the role of virtual modeling and simulation as a key business enabler for innovation based on the new 3DEXPERIENCE Platform and some concrete progress demonstrated in defining the initial 3DEXPERIENCE applications for simulation users as well as consumers. Next year, we look forward to hearing about how Dassault Systèmes customers have adopted and used the 3DEXPERIENCE Platform-based performance simulation solutions to reach the business objectives and value identified by Dassault Systèmes. Achieving the promised customer benefits of product innovation will help demonstrate the values possible through a focus on the Experience Economy.

## About CIMdata

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## Acquisitions

### *PTC Completes Acquisition of Atego*

1 July 2014

[PTC](#) has completed its acquisition of [Atego](#), a developer of model-based systems and software engineering applications.

The acquisition enhances PTC’s portfolio of [product lifecycle management](#) (PLM) and [application lifecycle management](#) (ALM) solutions and strengthens PTC’s commitment to supporting its customers’ systems engineering initiatives with powerful modeling capabilities.

Atego’s Model-Based Systems Engineering (MBSE) solution connects requirements engineering, architecture modeling, physical product definition, and system verification functions. This enables

efficiencies and process standardization, allowing distributed teams to collaboratively build digital models of complex systems while managing system variability and enabling reuse. These capabilities are increasingly important in a world of [smart, connected products](#) in which manufacturers must concurrently develop systems that consist of sophisticated mechanical, electrical, and software components.

“For PTC customers, there is increasing importance for multifunctional teams to work in concert while modeling the interdependencies of mechanical, electrical, and software engineering components,” stated Brian Shepherd, EVP Enterprise Segments, PTC. “Atego extends our existing ALM and PLM technologies and directly supports customers’ needs to integrate multiple systems engineering disciplines.”

Atego’s products are used by such companies as Alstom Transport, ATLAS ELEKTRONIK, and PSA Peugeot Citroën to improve their systems engineering processes.

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## Company News

### ***3D Systems Bespoke Technology Receives International Design Excellence Awards Recognition***

3 July 2014

[3D Systems](#) announced today that two of its Bespoke design applications have been awarded by the [2014 International Design Excellence Awards \(IDEA\)](#) from the [IDSA](#) and [Core77](#). Both the 3D printed personal Ekso robotic exoskeleton and Bespoke Braces for hand and wrist were recognized, with the [Ekso being awarded Bronze in the Social Impact category](#).

Recognizing excellence in all areas of design enterprise, these Design Awards celebrate the richness of the design profession and its practitioners. By recognizing the design inspiration of 3DS’ personalized medical device teams, the awards highlight the rapid progress being made in personalized healthcare for a variety of medical industries by 3DS.

“3D printing and scanning are allowing massive steps forward in the field of custom-designed braces that reflect and support a patient’s unique form,” said Andy Christensen, Vice President of Personalized Surgery and Medical Devices, 3DS. “The work and research being done by our teams represent the cutting edge in patient-specific treatments and it is satisfying to see that work being recognized for the design excellence that results.”

Tad Toulis, IDSA, 2014 IDEA Jury Chair, said “This year’s IDEA jury had a fairly audacious task: judging more than 2,000 entries. We saw a lot of design work that any designer would have been inspired by. Your work demonstrated the kind of creativity and passion the jury believed represents the best our profession can aspire to. Congratulations on your win!”

Bespoke Braces for hand and wrist, currently in its pilot phase, is a first-of-its-kind medical solution to scan, design, and print custom hand and wrist braces. In the Bespoke Braces process, a patient’s arm is scanned and data is transmitted to cloud-based servers where a brace design, customized by the patient and clinician, is created to match the shape of the patient’s individual anatomy. Each brace is then 3D printed using 3DS’ selective laser sintering (SLS) technology for optimal comfort, flexibility and durability. The Bespoke Braces system is comprised of an arm scanner, an iPad app, cloud software, a

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network of 3D printers, and four revolutionary arm brace designs. [This service has recently been expanded to include custom scoliosis braces for children and young adults.](#)

“This product is a strong example of when customization can be leveraged to its true potential, delivering an experience that is integrated, personal and strong application of additive manufacturing processes.” – Core 77 Jury

The robotic exoskeleton announced by 3DS in February 2014 is the [first-ever 3D printed hybrid robotic exoskeleton robotic suit](#), created in collaboration with Ekso Bionics. To create a perfect fit for Amanda Boxtel, the paraplegic patient, engineers scanned the contours of Amanda’s thighs, shins and spine and created a personalized three-dimensional base to form the shape of the required assemblies.

Sophisticated mechanical actuators and controls, manufactured and provided by Ekso Bionics, were then integrated with the more fluid components that were 3D printed from the customized scans to create the first ever bespoke suit. [View Amanda’s exoskeleton in action here.](#)

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## ***Autodesk Announces Executive Change***

30 June 2014

[Autodesk, Inc.](#) today announced the resignation of Mark Hawkins, the company’s executive vice president and chief financial officer. After more than five years at Autodesk, Hawkins is leaving the design and engineering software leader at the end of July to become chief financial officer at salesforce.com.

“I want to thank Mark for the many contributions he has made to Autodesk,” said [Carl Bass](#), Autodesk president and CEO. “He has been an excellent financial partner and was instrumental in leading the company through a number of initiatives. Mark leaves Autodesk on strong financial footing and with a highly regarded finance team. I wish Mark all the best in his new role.”

“It has been a pleasure working for Carl and with everybody at Autodesk,” said Hawkins. “I am proud to have been part of the Autodesk leadership team during this amazing journey from the depths of the Great Recession in early 2009 to today where the company has established a leadership position in the cloud and is well positioned for the future.”

Autodesk has initiated a selection process for a new chief financial officer. The company also expects to report revenue and EPS at or above the previously issued business outlook for its second quarter fiscal 2015. Autodesk reiterated its guidance for full-year fiscal 2015.

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## ***CADsoft Consulting Announces Reseller Partnership with McGraw Hill Construction***

1 July 2014

[CADsoft Consulting Inc.](#), a provider of technical design and engineering solutions, today announced that they will resell McGraw Hill Construction’s Dodge Global Network products in Arizona, New Mexico, and Nevada. McGraw Hill Construction provides essential data, news, insights, and intelligence to better

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inform construction professionals' decisions and strengthen their market position.

CADsoft Consulting is offering the Dodge Global Network to AEC business owners allowing them to better locate key projects in the early design stage. Dodge Global Network employs the latest technology to serve a company's business needs, whether simple or complex. The key benefits to the data offered with Dodge Global Network are:

- Strengthen Market Position
- Target and Build Relationships
- Increase Win/Loss Ratio
- Prioritize Prospects
- Size Market Opportunities

"As avid Dodge users ourselves, we see opportunities for CADsoft clients to gain more market share," said Lisa Duncan, Principal of CADsoft Consulting. "We partner with our clients to add to their technical skills so they can win specialty projects listed in Dodge. We show them how to better promote their capabilities in their bids, and connect them to resources that enable them to successfully compete for new types of work or bigger projects."

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## ***Delcam's Vortex and Sandvik Tools Reduce Transmission System Machining Time***

30 June 2014

Delcam's Brazilian reseller, Seacam, worked together with Sandvik Brasil to machine aluminium transmission covers for a car being developed by students from the University of São Paulo State. A reduction of 73% was achieved in the machining time by using the Vortex high-efficiency area-clearance strategy in Delcam's PowerMILL CAM system for high-speed and five-axis machining.

For more details on the time savings that are possible with Delcam's Vortex strategy, please go to [www.vortex-machining.com](http://www.vortex-machining.com)

The students regularly participate in competitions organised by SAE (Society of Automotive Engineers) between Institutions of Higher Education. The competitions let engineering students participate in real examples of project development, with all the activities involved, to provide a practical application of the theoretical knowledge they have acquired in the classroom.

The target of each team is to design and build a prototype, off-road, single-seat car, for marketing to enthusiastic amateurs rather than professional drivers. The vehicle must be safe, easily transported and offer simple maintenance and operation. It must be able to win over rough ground in any weather conditions without damage.

Since being founded in 2001, the USP team has improved its results year by year, winning more than thirty awards in various categories including the national championship in 2009 and 2012, and 9th overall in the finals in South Carolina, USA, in 2010.

Left- and right-hand versions of the transmission cover were produced on machines at Sandvik Brasil. Using the Vortex strategy enabled both parts to be machined three and a half hours. Similar parts had already been machined in December 2012, also using PowerMILL, the same cutters and the

same machines, when the machining took thirteen hours. This meant that Vortex achieved a reduction of 73% in machining time.

"With conventional roughing, it is necessary to limit the depth of cut and step-over of the tool to approximately 70% of its diameter," explained Alexandre Magdalon from Seacam. "With Vortex, it is possible to use a much deeper cut and so remove a larger quantity of material with each pass. There is also a significant reduction in the wear seen on the tool."

"We were very grateful to Sandvik for the help given to us during the tests," he continued. "A technical partner like Sandvik was essential to complete this project so successfully because the staff are specialists in cutting tools, with vast experience in all kinds of machining, as well as having a productivity centre with high-quality machining centres."

According Mr. Luis Angelo Veloso, a CAM Applications Specialist at SEACAM, "The use of Vortex strategy is very simple and intuitive; the only challenge is to set the optimum cutting parameters for safe machining. For this, I relied on the long experience of the technicians of Sandvik. Together, we were able to achieve this incredible result."

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### ***Geometric Marks its 20<sup>th</sup> Anniversary with Inauguration of its new Building in Pune***

1 July 2014

[Geometric](#) Ltd. today inaugurated its new facility in Hinjewadi Phase I, Pune. The day also marked the 20th anniversary of the company's incorporation, when it spun off from Godrej & Boyce to become an independent company.

Inaugurating the building, Mr. Manu Parpia, MD & CEO said, "We were the first company to start building facilities in Hinjewadi, and Pune has been at the heart of our global delivery organization ever since. We are very pleased with our move from leased offices to an owned premise, which not only reinforces our commitment to this city, but will improve our G&A costs."

This facility promises to be a critical component in Geometric's growth - not only is there a high level of pride for employees working in this owned facility; it is also home to Geometric's R&D and IP team. Geometric's new building is a 76,245 sq. ft. facility, with a seating capacity of about 500, complete with an amphitheater, multi-purpose hall, state-of-the-art infrastructure, and landscaped gardens at multiple levels. While building this facility, an emphasis was placed on 'green', and ensuring maximum availability of natural light on all floors. The inauguration today was attended by employees, local officials and ex-employees of the Company.

Geometric has four other offices in Pune, two buildings housing its joint venture company, 3DPLM Software Solutions Limited, and two leased premises in an SEZ.

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### ***Lectra Opens South Korean Subsidiary***

3 July 2014

## CIMdata PLM Industry Summary

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Lectra is pleased to announce the opening of its South Korean subsidiary. Lectra has been present in the country for more than 25 years through its exclusive agent Impa Systems. Impa's entire staff has joined Lectra South Korea. The new subsidiary will be managed by Hong-Kwon Moon, reporting to Yves Delhaye, Lectra director for ASEAN, South Korea, India and Australia.

The opening of the South Korean subsidiary will help accelerate Lectra's development plans in Asia. "South Korea is one of the eight economies, together with Brazil, China, India, Indonesia, Mexico, Russia, and Turkey, which are expected to produce half of global growth during the current decade. These countries make up the key markets where we are already firmly established and where we continue to invest," said Daniel Harari, Lectra CEO.

This new subsidiary is, after China, one of the spearheads of Lectra's Asian expansion, particularly in the automotive and fashion markets where South Korean companies hold an increasingly important position worldwide. Lectra South Korea will support local companies, as well as South Korean groups with an international presence, some of which figure amongst Lectra's largest customers. Many of them are subcontracting production to other Asia countries and throughout the world and are showing a growing interest in innovative solutions to improve efficiency and competitiveness while ensuring a high level of quality.

"South Korean conglomerates, or chaebol, generally have ambitious expansion plans. Lectra can guide them and help them meet their challenges thanks to its experience from collaborating with leading fashion brands and global automotive equipment makers," says Yves Delhaye. South Korean companies will benefit from the expertise and the knowledge of Lectra's local teams, backed by their international network of specialists.

"My first goal is to reinforce Lectra's relationships with the tier one automotive subcontractors and main fashion groups. We believe that the fashion and apparel market in particular will have a growing influence on the South Korean economy given the evolution of sectoral dynamics that we are currently seeing," notes Hong-Kwon Moon.

Prior to joining Lectra, Hong-Kwon Moon was sales director at Siemens, where he managed large accounts such as General Motors Korea. He previously worked in marketing and business at Hewlett Packard and Citibank in Korea. Hong-Kwon Moon holds an MBA in marketing and finance from Columbia Business School, New York, United States.

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### ***McGraw Hill Construction's Sweets Announces "Sweetstakes," Offering \$20K in Cash & Prizes***

30 June 2014

McGraw Hill Construction's Sweets (<http://sweets.construction.com/>) today announced the kickoff of Sweetstakes (<https://sweets.construction.com/Sweetstakes>), its contest offering approximately \$20,000 in cash and prizes. The contest was launched during the American Institute of Architects 2014 National Convention & Design Exposition in Chicago.

Sweets, which recently unveiled an enhanced online user interface, enables architects, designers, contractors and construction professionals to easily select and compare building products. It offers comprehensive building product information, CAD details, building information modeling (BIM) objects, specs, catalogs, galleries, and green product information.

# CIMdata PLM Industry Summary

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To enter the contest, register at <https://sweets.construction.com/Sweetstakes> through October 31, 2014. Every time entrants visit Sweets.com while logged in, they will receive an additional entry -- the more visits, the better the chances of winning.

Prizes include:

- Grand Prize: 1 Eames chair and ottoman - new all black model (valued over \$6,000)
- 2nd Place Prize: \$2,500 Cash
- 3rd Place Prize: MakerBot Replicator 2 - 3D Printer with starter kit (valued over \$1,900)
- 4th Place Prize: MakerBot Replicator 2 - 3D Printer with starter kit (valued over \$1,900)
- 5th Place Prize: MakerBot Replicator 2 - 3D Printer with starter kit (valued over \$1,900)
- 6th Place Prize: \$1,000 Cash
- 7th Place Prize: \$1,000 Cash
- 8th Place Prize: \$500 Cash
- 9th Place Prize: Modern Fan (value \$500)
- 10th Place Prize: Phaidon Book set (value \$250)

For complete official contest rules, visit <https://sweets.construction.com/SWEETS-contest-rules.pdf>. AIA Convention attendees are invited to learn more at the McGraw Hill Construction Booth, #4024.

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## ***Professor Martin Eigner Joins Aras Board of Advisors***

1 July 2014

Aras® is pleased to welcome Professor Dr.-Ing. Martin Eigner to the company's Board of Advisors. Professor Eigner, an internationally recognized expert in PLM and model-based systems engineering, will work with Aras to build on the company's track record of growth and global expansion, drive innovation in PLM technology, and foster a mutually beneficial, bi-directional relationship between commercial and university research.

On joining the Aras Board of Advisors, Professor Eigner said, "Aras is truly unique among PLM technology providers. Their approach, technology and business model provide enterprises with the advanced capabilities they want and the flexibility they need to take full advantage of emerging business opportunities. It is my pleasure to work with Aras and I look forward to helping shape the company's future."

Professor Martin Eigner is an expert in Product Lifecycle Management and Model-Based Systems Engineering. Early in his career, Professor Eigner was head of Technical Data Processing in a division of Robert Bosch GmbH. In 1985 he founded EIGNER + PARTNER INC., which was later sold to ORACLE. In 2003 he founded EIGNER Engineering Consult, a consulting company for the optimization of engineering processes with a focus on Product Lifecycle Management. Since 1984 Professor Eigner has been lecturing at universities and has authored or co-authored 13 books and several papers on CAD/PDM/PLM, IT in Engineering, and Model-Based Systems Engineering. At present

# CIMdata PLM Industry Summary

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Professor Eigner holds the chair in virtual product development at the University of Kaiserslautern.

“We are pleased and honored to welcome Martin to the Aras family,” said Peter Schroer, President of Aras. “He is a visionary in the industry who takes a pragmatic approach to meeting the needs of the market and, personally, he is a longtime friend and mentor. I look forward to working with Martin as we deepen and enrich our relationships with academia, and develop the next generation of PLM technology, including systems engineering, Industry 4.0 and more.”

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## ***Tour de France Cycling Spirit Grips Cambridge CAD Company***

3 July 2014

The Grand Départ of the Tour de France 2014 is coming to Cambridge on July 7th. The route runs a mere 800 metres from CAD Schroer’s offices. Excitement is growing in the company, which sponsors its entire staff to cycle to work from March to October.

### **Amazing Encouragement for Cycle Commute**

“We’re about halfway through this year’s cycle-to-work campaign,” says Simon Geard of CAD Schroer UK, who cycles to the office every day, “and what an amazing bit of encouragement to be able to watch stage 3 of the race commence in our lovely city! Our offices are an 8-minute walk from the colleges, so everyone will be there to cheer on the riders as they race down King’s Parade.”

Cambridge is the cycling capital of the UK, with 1 in 3 residents using bicycles to get around on a daily basis. CAD Schroer staff members there are ready to be inspired by the amazing spectacle of the best cyclists in the world whizzing past the ancient city’s beautiful scenery on their way to London.

The Tour de France Cambridge to London Route Map:

<http://www.visitcambridge.org/whats-on/tour-de-france-2014/tour-de-france-cambridge-to-london-route-map>

### **Cycling for Charity**

Each year, engineering software provider CAD Schroer, headquartered near Düsseldorf, sponsors a cycle-to-work campaign for all its offices, keeping a daily tally of all the km employees ride between March and October. When the two-wheeled commuters reach certain monthly goals, their efforts invoke corporate charity contributions. During July, all km cycled to work, or on after-work cycling trips with colleagues, translate directly into charity contributions. “Charities are nominated and voted for by staff members,” says Gudrun Tebart of CAD Schroer Germany, “Along with this year’s amazing sporting events, like the Tour de France and the Football World Cup, that’s another great incentive for our teams to get active.”

In 2013, CAD Schroer’s staff cycled a combined 22,716 km to work, over six times the entire Tour de France route of 3,656 km.

CAD Schroer Engineering Software Home Page: [http://www.cad-schroer.com/?pk\\_campaign=pr140716\\_Start-Radelprojekt](http://www.cad-schroer.com/?pk_campaign=pr140716_Start-Radelprojekt)

### **Cycling is Healthy, Green and Cheap**

“The cycle-to-work campaign has gained real traction in our company, with more and more staff getting involved,” says CAD Schroer Managing Director Michael Schroer. Not only does it benefit employees’ physical well-being, the planet and their pockets; giving to a good cause is also an important motivator.

“This year’s Tour de France will make our Cambridge cyclists feel especially inspired,” Michael concludes, “but hopefully the planet’s most amazing athletes on two wheels will encourage all our team members to rise to our cycle-to-work challenge.”

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## Events News

### ***Delcam to Show New-Look PowerINSPECT Inspection Software at IMTS***

3 July 2014

Delcam will demonstrate the latest release of its PowerINSPECT inspection software at the IMTS exhibition to be held in Chicago from 8th to 13th September on booth E3222, the largest CAM software booth at the show. PowerINSPECT now feature a new interface with new icons that make the software more intuitive and even easier to use. Other enhancements in this version include the ability to create compound items and so speed up and simplify repetitive measurements.

The new interface was developed to further improve the ease of use that has been central to PowerINSPECT becoming the world’s leading hardware-independent inspection software. Over the last few releases, the software has seen a significant increase in the range of measurements that it can make. The software can now be used to take all types of simple measurements and to inspect a growing variety of geometric features, as well as offering more tools for analysing complex 3D surfaces. In addition to making it easier to negotiate the greater range of options, the new interface features freshly-designed icons, which give a cleaner look and feel to the software.

In addition, PowerINSPECT now has the ability for users to create custom toolbars, which allow frequently-used commands to be grouped together in one convenient place and so improve speed and ease of use. It is possible to export and import toolbars, so users can easily transfer their set-up to a different PC or share their toolbars with other operators.

During inspection, 2D features (circles, slots, rectangles and the like) are always projected to a reference plane. For example, when inspecting a circle representing the top of a cylinder, the user will want to measure the properties of the circle and its height. PowerINSPECT can now create a compound item that combines the plane and the feature together into a single compound feature, and assumes that the 2D feature is to be reported, while the plane is not. This leads to a shorter sequence tree that is easier to navigate, and a report that shows only the properties of the 2D features by default.

This option is especially valuable for any iterative building operation, where an assembly needs to be measured, adjusted and re-measured until the results are acceptable. Using compound features makes it much quicker and easier to go back and forth between measurements. In particular, if the plane needs to be re-measured to determine the height of the circle, rather than the xy position, it can be re-measured immediately. This option was primarily designed for the building and calibration of fixtures but it is useful in any scenario where the user has to re-measure and adjust features within an assembly.

Enhancements to the measurement dialogues in PowerINSPECT allow a wider range of information to be shown in addition to the measured values. The user can now also choose to display nominal, deviation and error values, helping to highlight immediately whether each measured feature is in tolerance. This provides the operator with more complete information, allowing even faster decisions

about the status of the part and whether to continue with, or end, the measurement routine.

The range of geometric features that can be measured with PowerINSPECT continues to be increased with a new option to create a probed ellipse. A new constructed geometric feature allows the user to create the circle at the intersection of two tori. This can then be used to locate the transition point in 'S' bends in tubing and ductwork applications. In addition, enhancements have been made to the measurement of a constructed ellipse.

Improved calibration records can now be recorded in the probe database. This allows better traceability of the data and provides more assistance for the user to manage their calibrations.

Finally, PowerINSPECT now includes improved support for the Renishaw PH20 probe. This probe is becoming more popular as the five-access motion of the PH20 allows measurement points to be taken by moving only the head rather than the complete CMM structure, giving easy access to features at any angle and minimising stylus changes.

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## ***OPEN MIND at the Farnborough International Airshow 2014***

30 June 2014

OPEN MIND Technologies AG is set to present at the Farnborough International Airshow. OPEN MIND will present version 2014.1 of the CAM solution hyperMILL® at Booth B3 in Hall 1 of the aviation trade fair from 14 to 20 July 2014.

The special requirements of the aviation industry also regard the further development of machining strategies and tool support for the *hyperMILL*® CAM suite. As such, one key improvement of version 2014.1 involves the use of barrel cutters in different designs. The large effective radius of the thin tools allows 5axis cutting with greater step-over distances. This reduces machining time and achieves a high level of surface quality. These are key factors for economical production, which is particularly important in the aerospace industry. OPEN MIND works with well-known users from the aviation industry to further develop the technology.

### **More efficient material removal**

The necessity for fast and tool-friendly stock removal of high-quality materials makes the *hyperMAXX*® high-performance cutting strategy particularly interesting for the aviation industry. It is now possible to use the module for new features in the 5axis shape-offset roughing routine.

When converting from 3axis toolpaths to 5axis toolpaths, different tool types, such as barrel and woodruff cutters, can be used. Users also have more options when projecting reference toolpaths.

### **Retract with *hyperMILL*®**

The functions for automated machining of turbine blades will undoubtedly prove to be a top highlight for programmers from the aviation industry. To this end, the interface of the 'single blade' package has been improved and simplified. It is now possible to use full feature support for turbine blade cycles. This results in lots of opportunities to automate CAM programming. These are available at all times without re-selection thanks to the central management of all geometry data in one feature. The 'platform machining' cycle is another example of efficient programming. Targeted machining of hub or shroud surfaces is possible through simple switching in the user interface. And independent angle values can be

specific near the root and tip platforms.

## **Colleagues experience at the machine**

OPEN MIND provides the machine operator with a new visualisation solution with the *hyperMILL*<sup>®</sup> ShopViewer. The ShopViewer allows the machine operator to check and simulate manufacturing processes directly via the monitor. The display, analysing and documenting of processed CAD/CAM data in the workshop improves the traceability of the manufacturing process via the toolpath simulation, the material removal simulation and the internal machine simulation. This delivers valuable feedback. Experienced machine operators can recognise possible errors early on using virtual process analyses.

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## ***SPEC Innovations Exhibits at INCOSE IS 2014***

28 June 2014

SPEC Innovations will attend INCOSE Symposium 2014. International Council on Systems Engineering (INCOSE) 24th Annual International Symposium, will be held at the Green Valley Ranch Resort, near Las Vegas, Nevada, June 30 – July 3.

Demonstrations of Innoslate 3.0 will be given at Booth C3 to show how Innoslate can be used to implement the full lifecycle. Innoslate has the ability to perform Model-Based Systems Engineering, DoDAF 2.02, and Requirements Analysis and Management.

Innoslate is a model-based systems engineering developed by SPEC Innovations. As a public cloud or on-site application, Innoslate allows you to stay in sync with your engineering team while modeling a complete system. For more information visit <https://innoslate.com/>.

The International Council on Systems Engineering (INCOSE) is a not-for-profit organization founded in 1990. INCOSE's mission is to improve the principles and practices of systems engineering. For more information visit <http://www.incose.org/>.

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## ***Systems Engineering Training – Methodoly and SysML Language – DPS/Eiris***

1 July 2014

**DPS** is pleased to announce a new training session on Systems Engineering, organized jointly with their partner [Eiris Conseil](#).

This session will be hold from September 30th to October 3rd 2014 in their Dearborn office (Michigan).

This training is aiming to cover the whole Systems Engineering methodology following INCOSE's technical processes and then showing an approach based upon those guidelines going through requirements management and traceability as well as good ways to practice it using SysML language.

You will find detailed program of this training following the following link: <http://archives.express-mailing.com/4/1604/147770/index.htm>

If you are interested, feel free to contact Christophe Baroux ([christophe.baroux@dps-fr.com](mailto:christophe.baroux@dps-fr.com)) for further

information.

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## Financial News

### ***3D Systems Announces Conference Call and Webcast to Discuss Second Quarter and Six Months 2014 Results***

1 July 2014

[3D Systems](#) announced today that it plans to hold a conference call and simultaneous webcast to discuss its financial results for the second quarter and first six months of 2014 on Thursday, July 31, 2014, at 9:00 a.m. Eastern Time. The company expects to release these financial results and to file its Form 10-Q on July 31, 2014.

Date: Thursday, July 31, 2014

Time: 9:00 a.m. Eastern Time

Live webcast: [www.3dsystems.com/investor](http://www.3dsystems.com/investor)

Participate via telephone:

Within the U.S.: 1-866-953-6860

Outside the U.S.: 1-617-399-3484

Participant code: 39529244

The [recorded webcast](#) will be available beginning approximately two hours after the live presentation.

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### ***Accenture Reports Strong Third-Quarter Fiscal 2014 Results***

27 June 2014

Accenture reported strong financial results for the third quarter of fiscal 2014, ended May 31, 2014, with net revenues of \$7.74 billion, an increase of 7 percent in both U.S. dollars and local currency over the same period last year, above the company's guided range of \$7.40 billion to \$7.65 billion.

Diluted earnings per share were \$1.26, compared with \$1.21 for the third quarter last year, which included a benefit of \$50 million, or \$0.07 per share, from a reduction in reorganization liabilities. Excluding this benefit, diluted EPS for the third quarter last year were \$1.14. Diluted EPS for the third quarter of fiscal 2014 increased 11 percent from adjusted EPS for the third quarter last year.

Operating income for the quarter was \$1.18 billion, or 15.2 percent of net revenues, compared with \$1.14 billion, or 15.9 percent of net revenues, for the third quarter last year, which included the benefit of \$50 million from the reduction in reorganization liabilities. Excluding this benefit, operating income for the third quarter of fiscal 2013 was \$1.09 billion, or 15.2 percent of net revenues.

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New bookings for the quarter were \$8.8 billion, with consulting bookings of \$4.3 billion and outsourcing bookings of \$4.5 billion.

Pierre Nanterme, Accenture's chairman and CEO, said, "We are very pleased with our third-quarter financial results. We delivered strong revenue growth, which was broad-based across the different dimensions of our business, and earnings per share of \$1.26, up 11 percent. New bookings of \$8.8 billion bring us to \$27.6 billion for the first three quarters of the year, and demonstrate that our services continue to be highly relevant to our clients. We generated solid free cash flow and returned \$1.1 billion in cash to our shareholders.

"These results clearly demonstrate that we are successfully executing our growth strategy. We are leveraging our unique positioning at the intersection of business and technology, capturing new opportunities in key growth areas—especially digital—and investing to further differentiate our capabilities. At the same time, we are maintaining a disciplined management approach to continue enhancing our competitiveness. We remain confident in our ability to continue driving profitable growth and delivering value for our clients and shareholders."

To view an unabridged version of this press release, visit:

<https://newsroom.accenture.com/news/accenture-reports-strong-third-quarter-fiscal-2014-results.htm>

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### ***Infosys to Announce First Quarter Results on July 11, 2014***

1 July 2014

Infosys Limited will announce results for its first quarter ending June 30, 2014 on Friday, July 11, 2014, Indian Standard Time (IST) (on the night of Thursday, July 10, 2014, US Eastern Time (ET)). The results will also be available on <http://www.infosys.com>.

Following the release, Infosys CEO and Managing Director, Mr. S. D. Shibulal; COO, Mr. Pravin Rao; CFO, Mr. Rajiv Bansal and Executive Vice President and Head - Human Resources, Mr. Srikanth Moorthy, will be part of a common television interaction at 10:00 a.m. IST. The participating executives will address questions from the media during this interaction which will be streamed live on the Investor Relations section of the Infosys website

This will be followed by a detailed discussion on ET Now from Bangalore at 10:30 a.m. IST on July 11, 2014 (this will not be telecast in the US). An archive of this event will be uploaded on <http://www.infosys.com> after 2:00 p.m. IST on July 11, 2014 (after 4:30 a.m. US ET on July 11, 2014).

#### **Earnings call I**

**(11:30 a.m. - 12:30 p.m. IST; 2:00 a.m. - 3:00 a.m. ET)**

The company will conduct an hour-long conference call at 11:30 a.m. IST (2:00 a.m. ET) on July 11, 2014 (open to investors / analysts in all regions), where the senior management will discuss the company's performance and answer questions from participants. To participate in the conference call, please dial the numbers provided below 10 - 15 minutes before the scheduled start time of the call. During this interim, the operator will provide instructions on how to ask questions. As participation in the call is limited, early registration (by calling the numbers 10 - 15 minutes before the scheduled start

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time) is encouraged.

This event will be webcast live on the Investor Relations section of the Infosys website, following which it will be archived at <http://www.infosys.com>. The archive will be available after 2.30 p.m. IST on July 11, 2014 (after 5:00 a.m. US ET on July 11, 2014). In addition, a transcript of the conference call will be available at <http://www.infosys.com>.

## **Earnings call II**

**(6:00 p.m. - 7:00 p.m. IST; 8:30 a.m. - 9:30 a.m. ET)**

The company will also conduct an hour-long conference call at 8:30 a.m. ET (6:00 p.m. IST) on July 11, 2014 (open to investors/analysts in all regions), where the senior management will discuss the company's performance and answer questions from participants. To participate in the conference call, please dial the numbers provided below 10 - 15 minutes before the scheduled start time of the call. During this interim, the operator will provide instructions on how to ask questions. As participation in the call is limited, early registration (by calling the numbers 10 - 15 minutes before the scheduled start time) is encouraged.

This event will be webcast live on the Investor Relations section of the Infosys website and an archive can be accessed at <http://www.infosys.com> after 11:00 a.m. ET on July 11, 2014 (after 8:30 p.m. IST on July 11, 2014). A transcript of the conference call will be available at <http://www.infosys.com>.

To view an unabridged version of this press release, visit: <http://www.infosys.com/newsroom/press-releases/Documents/2014/Q1-july11-2014.pdf>

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## ***OpenText to Report Fourth Quarter and Fiscal Year 2014 Financial Results on Wednesday, July 30, 2014***

3 July 2014

Open Text™ Corporation today announced that financial results for its fourth quarter and fiscal year 2014 will be released on Wednesday, July 30, 2014 at approximately 4:00 p.m. ET.

### **Teleconference Call**

Mark J. Barrenechea, OpenText CEO and Paul McFeeters, OpenText CFO will host a conference call on July 30, 2014 at 5:00 p.m. ET to discuss the company's financial results.

Date: Wednesday, July 30, 2014

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

Length: 60 minutes

Where: 416-847-6330 (international) 866-530-1553 (toll-free)

Investors should dial in approximately 10 minutes before the teleconference is scheduled to begin. A replay of the call will be available beginning July 30, 2014 at 8:00 p.m. ET through 8:00 p.m. on August 14, 2014 and can be accessed by dialing 647-436-0148 (international) or 888-203-1112 (toll-free) and using passcode 6995981 followed by the number sign.

For more information or to listen to the call via web cast, please use the following link:

<http://investors.opentext.com/events.cfm>.

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## Implementation Investments

### ***Accenture to Provide Application Management Services to Shell for Engineering, Production and Process Control***

3 July 2014

Accenture has been awarded a multi-year managed services contract by Shell to support engineering, production and process control across its upstream and downstream operations.

Under the terms of the agreement, Accenture will provide Shell's Project & Technology (P&T) organisation with application management services, which will include the support, as well as maintenance, enhancement and deployment of more than 260 applications in the areas of engineering and real-time data-analytics of production operations and process control.

Accenture will support and maintain applications such as Oracle Primavera, Intergraph® SmartPlant® and OSIsoft's PI System.

Accenture's Global Delivery Network locations in India will be used to optimise the support of delivery operations and create an IT deployment engine.

“Effective and efficient management of production operations and capital projects is a huge challenge for the energy industry, as these assets and projects grow in scale and complexity. Maximising value from the investments is becoming increasingly critical,” said Jan van den Bremen, managing director and global account lead for Shell in Accenture's energy industry group. “Accenture looks forward to working with Shell's P&T organisation and supporting its assets to further optimise production.”

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### ***Norrøna Selects Centric Software Product Lifecycle Management***

1 July 2014

Centric Software, Inc., has acquired its first Scandinavian [product lifecycle management \(PLM\) software](#) customer.

Norrøna, an outdoor clothing and sports gear brand, will use the Centric 8 [PLM software for retail, apparel, footwear, luxury and consumer goods](#) to support expansion and growth. The Hvalstad, Norway-based company plans to quadruple the size of its worldwide business over the next five years, according to Brad Boren, research and development director.

Norrøna's ambitious plans for growth – and innovation – require the company to become as efficient as possible, says Boren. The high-end outdoor company controls the entire product development process in house, including sketching, material development and testing, pattern making, sewing and quality control. “The Centric PLM software will provide the necessary levels of visibility, control, and communication among our staff to ensure everyone is using the latest information on every product.”

“Our move to Centric 8 is an important step forward in collecting vital product information in an

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organized, easy-to-access way,” Boren states. “PLM will eliminate redundant data input, reduce errors and save time.”

The Centric solution’s ease of use was key in Norrøna’s selection. “We evaluated several PLM systems, but found Centric to be the most intuitive to use,” says Boren. He also points to the ability to configure the software easily and quickly, without needing the services of a programmer. “Norrøna is a company that is used to digging in and making improvements,” he explains. “Centric is a flexible system that will support this culture, and grow with Norrøna as it expands.”

“Centric and Norrøna’s shared focus on product innovation is highly complementary,” says Chris Groves, president and CEO of Centric. “With [Agile Deployment](#) (SM) to help the company achieve rapid value from its investment in Centric 8, Norrøna can move swiftly toward its ambitious future plans for growth.”

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## ***The Kohler Company Selects CADseek Shape and Attribute Search for Enterprise Deployment***

30 June 2014

The iSEEK Corporation is pleased to announce that the Kohler Company has selected CADseek Polaris as its shape-based search solution for CAD data management.

Kohler, a manufacturer of kitchen and bath products, is presently launching an enterprise production implementation of CADseek to complement the suite of software products used by its designers, production engineers and supply chain personnel. CADseek provides a rich graphical user interface that makes it easy to find the right part or assembly for reuse in the current project. Furthermore, CADseek also locates additional important information related to each of the parts, such as material, cost, supplier information and manufacturing documentation.

CADseek is able to handle any of the existing CAD formats and interfaces with all the popular PDM/PLM systems. Parts and assemblies in a specified database are first coded using iSEEK’s patented technology, and the results are classified into families of similar shape for browsing in the CADseek Navigator. Users can search one or more datasets on the basis of shape alone, attributes alone or a combination of the two.

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## Product News

### ***Altium and In-Circuit Design Partner to Provide New Extensions for Altium Designer to Respond to Challenges in High-Speed Design***

26 June 2014

[Altium Limited](#) in cooperation with Australian based In-Circuit Design Pty Ltd (ICD), announce the availability of new extensions for Altium Designer for advanced stackup planning and power

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distribution network analysis to bring comprehensive high-speed design capabilities to the mainstream market, at an affordable price.

With the increasing challenges concerning high-speed signals – not only because of high clock frequencies, but also because of faster edge rates – more and more PCB designers need to have analysis tools that allow them to successfully design with fewer iterations. The two new extensions for Altium Designer, the ICD Stackup Planner and ICD Power Distribution Network (PDN) Planner, are accessible from within the design tool to provide for seamless analysis.

“The ICD analysis software complements Altium Designer by empowering designers to accurately and confidently route complex, high-speed designs” said Barry Olney, Managing Director and CEO of In-Circuit Design. “Altium opens up a broader market for our products and gives Altium Designer customers the tools they need for competitive advantage at a reasonable cost.”

ICD provides a centralized, shared, impedance planning environment that connects materials, PDN analysis, stackup planning, signal integrity, PCB design and fabrication, consolidating the impedance control from schematic to fabrication. The impedance is planned pre-layout and flows through the design process to fabrication.

## **ICD Stackup Planner**

Attention to critical placement, fanout, matched length and differential pair routing are vital for more and more mainstream designs. However, planning the multilayer PCB stackup configuration is one of the most important aspects in achieving the best possible performance of a product. The ICD Stackup Planner enables engineers and PCB designers to master this challenge.

Key Benefits of ICD Stackup Planner include:

- Unprecedented simulation speed, ease of use and accuracy at an affordable price.
- Accurate impedance control for rigid-flex design flows seamlessly, in the Altium environment, from concept to fabrication.
- The 8,800 part dielectric materials library allows the simulation of the actual materials used by your fabricator.
- Unique field solver computation of multiple differential pair definitions per layer.
- Automatic creation of high-speed design rules in Altium Designer.

## **ICD PDN Planner**

A typical high-speed, multilayer PCB has five or six individual power supplies that all serve a different purpose, and must be regulated to maintain power integrity during high current switching up to the maximum frequency. With a frequency range up to 100 GHz, the ICD PDN Planner analyzes the AC impedance of each on-board PDN, including capacitor selection, to ensure a broad spectrum of noise reduction, giving a concise graphical view of the entire network including plane resonance peaks.

Key benefits of the ICD PDN Planner include:

- Unprecedented simulation speed, ease of use and accuracy at an affordable price.
- Accurate PDN management flows seamlessly, in the Altium environment, from concept to production.
- Comprehensive capacitor library of 5,000 parts, allows the simulation and optimization of the actual capacitors extracted from manufacturer’s SPICE models.

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- Intuitive and easy to use – gives all members of your PCB design team the ability to quickly analyze power integrity without the usual steep learning curve associated with complex software.

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## ***Antenna Magus Version 5.0 Released***

2 July 2014

MAGUS (Pty) Ltd (MAGUS) and CST - Computer Simulation Technology AG (CST), announce the release of Antenna Magus Version 5.0 - a tool that helps engineers deliver antenna design projects faster and more effectively than ever before.

Equipping engineers with information to make the antenna design process even quicker and more flexible has been the main focus of development in version 5.0 of Antenna Magus.

The design capabilities for all 250 antenna types in the Antenna Magus database have been upgraded to include 'Smart Design' functionality. This feature can automatically suggest practical design objectives and, as needed, can also instantly convert information provided by the designer between different representations.

A new feature of version 5.0 includes the library of specifications. This library incorporates the properties of typical design specifications used in various industries. Accessing predefined specs speeds up the design process, and helps to achieve more reliable designs. Specification information can be added to Antenna Magus by the user. It is stored and can be easily recalled for re-use in later design projects.

Many of the existing Antenna Magus capabilities have also been improved. The chart tracing tool, which allows engineers to digitize data from images of measurement or simulation plots, has been integrated into the specification library. It now includes automated extraction of representative properties such as beamwidth and sidelobe level. All elements of a design, such as parameter values and 3D images, can also be saved to file or clipboard in various text and image formats, providing easy access to resources for reporting. Antenna Magus integrates seamlessly into leading computational electromagnetic simulation tools such as CST STUDIO SUITE(r), allowing engineers to move to detailed analysis and integration phases with ease.

As Antenna Magus expands, improvements and extensions are continuously being added. To make it easier for users to access the latest features as soon as they are available, a new update mechanism has been added. All future updates and releases can now be downloaded and installed from within the tool's interface at any time.

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## ***CoreTech System Announces Moldex3D R13.0: Best-in-class Industry-oriented Simulation Solutions***

27 June 2014

# CIMdata PLM Industry Summary

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CoreTech System Co., Ltd. (Moldex3D), announced the release of [Moldex3D R13.0](#). The software has plastic validation and optimization applications for industrial design and manufacturing, with customer-driven improvements on functionality, workflow, computing efficiency and user experience. Moldex3D enables part designers and mold makers to optimize decision making in the plastic injection molding process. This will allow them to manufacture high-quality products in form, fit and function, reduce costs, and shorten time-to-market. With strong customer commitment, CoreTech is developing and expanding its product features and services, helping enterprises create core competitiveness and add value for their own products and end-users.

Moldex3D has been the plastic simulation standard in many industries, including automotive, digital electronics, medical, consumer product, etc. Aimed at eliminating molding defects and increasing production efficiency on plastics, Moldex3D enables customers to visualize the melt front behavior inside the mold cavity and predict potential molding problems before manufacturing. It also helps users validate design or process changes to work more efficiently. It greatly reduces the time and money from repeated mold trials and fixes. It also helps users achieve specific industrial or environmental targets, such as lightweight design for automotive frame structure or carbon fiber material applications.

“Quality and cost are two of the most significant success factors in product development and manufacturing. In addition to conventional plastic applications in the industries, the emerging market demands also require quick response manufacturing. The release of [Moldex3D R13.0](#) has emphasized back-to-basics problem analysis and troubleshooting capabilities. This is helping our customers tackle critical molding issues to reach optimal production efficiency. Quality assurance and cost management that can be achieved effectively in a short time period,” said Dr. Venny Yang, President of CoreTech System.

Building upon the capabilities of past releases and improving innovation for performance and functionality, [Moldex3D R13.0](#) offers the following benefits and enhancements:

## **Rapid Modeling and Meshing**

Improved user friendliness for pre-processing work and a wide variety of powerful tools to help anything from geometric modeling to meshing.

- **Gate Location Advisor** Gives advice on the optimal gate location based on part geometry before running an analysis. Improves flow balance and minimizes repeated validation for filling issues, such as short shots or weld lines.
- **Various Runner Design Applications** Better design geometry-based runners and compose a more realistic plastic feeding system applied in the industrial molding process. Enhance modeling flexibility and improve melt front advancement.
- **Conformal Cooling Channel Designer** Defines and create conformal cooling channels automatically based on the contour of the part. Save time in building highly complicated cooling systems that increases cooling efficiency.
- **Automate Boundary Layer Mesh (BLM) Creation** Reinforces meshing capabilities to generate high-resolution solid mesh for complex geometric features. Support industry-specific molding simulation and computation.

## **Heat and Cool Management**

Simulate melt front behavior and visualize thermal variations in heating and cooling processes. Improve heating transfer and cooling efficiency to enhance part quality and shorten cycle time.

- **Plastic Filling and Packing Simulation** Users can visualize melt front and sprue pressure

# CIMdata PLM Industry Summary

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variation with reference to screw ram position in the filling and packing processes. Increases interior welding surface prediction, helping users check potential welding defects and mechanical strength weakness inside the cavity. Also, supports valve gate switch controls during the packing stage to provide more realistic valve gate simulation.

- **Cooling Channel Simulation** Allows one to analyze more complex cooling channel designs with multiple coolant inlets and outlets. Supports the Mold Preheat Analysis and allows one to visualize mold temperature variation during the mold preheat stage. This enables users to reduce the number of short shot parts produced before steady cycles.
- **Advanced Hot Runner Simulation** Boosts the computing speed of temperature variation analyses in hot runner simulation. Visualize the temperature distribution in each hot runner metal component and support switch on/off controls when using clipping or slicing functions. User can validate heating rod and coil designs and evaluate heating efficiency.

## Enhanced Plastic Applications to Meet Market Demands

Expands the troubleshooting capabilities in injection molding simulations. Allow users to obtain more accurate visualizations of the molding results. This gives users the ability to predict and eliminate potential manufacturing defects much more effectively.

- **Part and Mold Deformation Simulation** In the warp analysis, users can visualize in-plane shrinkage due to PVT distribution and out-of-plane warpage due to different temperature effects across thickness. The software optimizes mold compensation or packing path design and coolant temperature controls to eliminate part deformation. Uses the stress analysis function to simulate mold deformation behavior from pressure and mold thermal loading effects in the filling and cooling stages. Evaluates potential process-induced mold defects.
- **Fiber-reinforced Plastic Simulation** Provides fiber length prediction and fiber concentration distribution when considering screw-induced fiber breakage and shear-induced fiber migration behaviors in the molding process. Users can better evaluate the quality and strength of their plastics using fiber-reinforced materials.
- **Compression Molding Simulation** Improves kernel capabilities and supports compression molding simulations with 3D hybrid mesh models. These are automatically generated in Designer. Users can visualize charge distribution and calculate the volume filled by the plastic flow for each charge. Indicates compression charge contribution and control charge size and position.
- **MuCell<sup>®</sup> Simulation** Enables users to define more realistic process parameters and enhances simulation accuracy by bringing filling simulation to the packing stage in the microcellular injection molding process. Supports the core-back molding process simulation, in which cell size and cell density are improved to lighten part weight and enhance surface quality.
- **Advanced Structural Assessment in Connection with FEA Software** Increases the integration of the Micromechanics Interface with Digimat and Converse. Supports more output options for analysis results from Moldex3D, such as volumetric shrinkage, temperature distribution or residual stress. Uses FEA software for advanced structural assessments, including ANSYS, ABAQUS, Nastran, Marc, LS-DYNA, Radioss, etc.

## User Interface Optimization in Post-processing

Provides an overall better user experience and improves the efficiency of simulation and validation.

Makes it more intuitive and more convenient to setup process conditions and visualize analysis results

# CIMdata PLM Industry Summary

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- **Reality-Simulation Molding Machine Database** Supports the properties of widely applied molding machines for use in injection molding simulations, such as screw diameter or injection pressure. Improve simulation accuracy with reference to real mold trials
- **More Display Applications for Result Visualization** Improves the visualization of simulation results, helping users observe melt front behavior and evaluate potential defects in depth. This includes dense or sparse distribution of fiber orientation on the part's surface, melt front variation due to screw ram position, clipping or slicing part and mold inserts within the show and hide switches.
- **Report Generator Optimization** Increases user-defined output options in XY curve results. The report wizard enables one to export analysis results in HTML, PPT or PDF formats. Compare up to 4 different runs in one report. This helps users compare result changes due to design and process optimization and decide the optimal molding factor mix.

## **Comprehensive Material Databank**

Supports more than 6,500 thermoplastic and thermoset materials to enhance simulation accuracy. Uses the built-in filter to quickly select property-identified materials and evaluate the properties for use in injection molding simulation.

## **Improved Model Surface Rendering Kernel Efficiency**

Enhances the model surface rendering kernel and boosts the rendering efficiency for graphic performance by 2 to 5 times, which leads to better and smoother model displays.

[Moldex3D R13.0](#) is available now. For pricing and detailed product features, please contact your local resellers or sales representatives. Further information about [Moldex3D R13.0](#) also can be found on the [Moldex3D R13.0 Launch Page](#).

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## ***Flow Science Announces Release of FLOW-3D Cast Version 4***

1 July 2014

Flow Science, Inc. announces the availability of a new release of **FLOW-3D Cast**, version 4. A major release, **FLOW-3D Cast** v4 is based on the recently-released solver for **FLOW-3D** version 11 and provides users many new simulation tools to improve metal castings as well as a new innovative and intuitive Model Setup panel that greatly reduces the time required to create real-world simulations. Users are guided through the simulation setup process by the logically arranged setup panels at the left side of the Model Setup window. Elements of the casting process are entered by their actual names (e.g., mold, casting parts, filters) and appropriate physical models are activated automatically.

“The driving factor behind the development of **FLOW-3D Cast** has always been to closely reflect the workflow and needs of our customers so that they can improve product development, speed up production and deliver high-quality products to market before their competitors,” commented John Ditter, VP of Software Engineering at Flow Science.

Key models and improvements to the solver and GUI include:

- A thermal stress model that predicts stresses and deformations in solid and solidified parts in response to pressure forces

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- Multiple improvements for modeling cooling channels in dies
- Improved capabilities for modeling the generation of gasses from sand cores
- Several new numerical options that enable faster simulation times
- A new Simulation Manager function in the graphical user interface, allowing users to manage their simulations better, both before and as they run, and to visualize the progress of simulations
- Improvements to the user interface that make setting up simulations much easier and more intuitive
- A new state-of-the-art postprocessor, FlowSight™, capable of analyzing results in ways that were not previously possible

For an extensive description of the improvements in the v4 release, go to: <http://www.flow3d.com/flow-3d-cast/whats-new-in-flow3d-cast-4-0.html>

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### ***IMAGINiT Technologies Updates Scan to BIM and Utilities for Compatibility with Autodesk 2015 Products***

27 June 2014

[Rand Worldwide](#) announced that its [IMAGINiT Technologies](#) division has released updated versions of their [Scan to BIM](#) and [IMAGINiT Utilities software](#) products, including: Utilities for Revit, Utilities for Civil 3D, Utilities for Vault Client and Utilities for Vault Server. In addition to compatibility with the Autodesk 2015 product releases, IMAGINiT has introduced new [free trial versions](#) of Scan to BIM, Utilities for Revit and Utilities for Civil 3D.

“Every IMAGINiT software product is purposefully designed to extend the capabilities of our customers’ design technology, enabling them to be more productive,” says Tim Johnson, senior vice president, IMAGINiT Technologies. “The best way to know if a solution will address an organization’s productivity needs is hands-on experience. That’s why we’ve introduced a 21 day free trial for Scan to BIM and a 14 day free trial for IMAGINiT Utilities for Civil 3D and IMAGINiT Utilities for Revit.”

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### ***Industry Viewpoint: 6 Ways for Architecture and Engineering Companies to Improve Their CAD Software***

3 July 2014

[ZWSOFT](#) has published the results of an in-depth research study with 5 major architecture and engineering company customers, regarding problems when using their CAD software. Six main issues were raised by these companies and solutions have been found.

#### **High-level API**

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The vast number of elements involved in engineering and architecture design means that several specialist tools are needed to be integrated within the design environment, to avoid the requirement for several other pieces of specialist software. [ZWCAD+](#)'s high-level API compatibility means developers can create applications to address the specific needs of users. They can also port their applications 10 times faster, meaning even more applications are available on ZWCAD+.

## **Efficient Tools**

Since CAD software was invented to make the design process easier and more efficient, the availability of advanced tools has proved to be a major concern for the respondents. Users wanted a more customizable UI, ensuring that their most used features are the most easily accessible, thereby becoming more efficient and saving money and time, while also making it easier to correct mistakes and undertake repetitive tasks. The innovative features offered by ZWCAD+, such as Associative Dimensions and Dynamic Block, can reduce the need for re-working, while the brand new SmartSeries allows for highly customizable commands and annotation.

## **Data Exchange**

As the most common complaint about CAD software, mentioned by 3 of the 5 firms questioned, compatibility is the main concern for many users. [Zamil](#), a Saudi construction firm; [Euroned](#), a Romanian offshore engineering company; and [CAS AIS](#), an architectural firm from Portugal, all noted that they had worries in this area. With the vast amount of CAD and other specialist software required in major projects, as well as the high level of collaboration involved with architecture and engineering, the firms wanted strong compatibility to allow users to open and edit drawings from a variety of origins, in one design environment. ZWCAD+ offers compatibility with all mainstream CAD software, meaning users can open files from clients and collaborators without the risk of changes or time-consuming conversions.

## **Efficient Memory Management**

Euroned, CAS AIS and [Ingerieros](#), a Chilean construction firm, have all noted that their computer speeds have decreased as the CAD software they are using becomes more sophisticated and their designs become larger and more detailed. Since replacing hardware is far too expensive for most businesses, the firms noted the need for the efficient use of a computer's processing ability while running the CAD software. ZWCAD+'s new Memory Management technology allows users to open large drawings over 100MB with 50% less memory usage, leading to faster speeds, saving time and money.

## **Comfortable User-Interface**

The layout of the UI was noted by many as a major issue with CAD software. With AutoCAD being the most common starter software, a significantly different layout would cause confusion and result in significant re-learning costs when moving to a cheaper or more efficient alternative. This idea has been raised by firms as a major worry when considering switching CAD software. Having switched to ZWCAD+, however, the respondents found that there were no re-learning costs due to similarities with the AutoCAD layout, while the customizable features allowed them to make their most used commands easily available to improve efficiency.

## **Customizable Upgrade Structure**

With the growing prices of AutoCAD, the market leader, and the major importance of cost when bidding for projects, firms are looking for alternative CAD software that may offer a more competitive pricing structure. At around 20% of the price of an AutoCAD license and a cost-efficient and customizable upgrade policy, ZWCAD+ can offer huge savings for any firm.

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The vast size of most engineering and architecture projects causes unavoidable problems and challenges, while some CAD software presents unnecessary additional issues. With ZWCAD+, these challenges have already been addressed through innovative features and a focus on the end user, resulting in an efficient and cost-effective design process for all.

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## ***IntelliCAD Technology Consortium Announces IntelliCAD® 8 in the Cloud***

30 June 2014

The IntelliCAD Technology Consortium (ITC) announced IntelliCAD 8.0 operating in the cloud.

Made available last week, thousands of users have been sampling IntelliCAD in the cloud using a local web browser with no installation or registration required.

IntelliCAD 8.0 is the most recent CAD development platform delivered by the ITC to its members. It contains over 1,200 new features and fixes that include interoperability with the latest version of .dwg files, version 2014.

By using Mainframe2 technology, IntelliCAD can be run on a local computer without needing expensive hardware. Mainframe2 is designed to run any software application in the cloud with minimal internal development.

Robert Berry, Business Development Director of the IntelliCAD Technology Consortium said, “The Mainframe2 technology is an exciting new method of software delivery that allows us to run IntelliCAD across any platform including Macintosh and Linux. With the launch of the new IntelliCAD 8 via the cloud we have been able to let thousands of people immediately experience the power of this terrific software without the complication of installation or even registration.”

David Lorenzo, Development Director of the IntelliCAD Technology Consortium said, “Our members were stunned to see IntelliCAD running in a browser. Mainframe2 is a real game-changer for us. With very little work we have managed to supply our members with the cloud solution that they can use today.”

“IntelliCAD running in the cloud is a great example of how powerful, sophisticated solutions will be delivered in the future,” said Dr. Nikola Bozinovic, founder and CEO of Mainframe2. “Our cloud platform gives software vendors everything they need to instantly reach millions of users on all devices without having to modify their product. It's an amazing opportunity for ITC members to shape the future of CAD.”

You can try IntelliCAD in the cloud for a limited time by simply clicking the following link:

<http://www.mainframe2.com/intellicad>

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## ***Keep Up To Date with Alphacam App***

2 July 2014

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Alphacam has launched a free app for the iOS and Android platforms, providing an easy way for customers to stay in touch with “everything Alphacam.”

The app provides instant access to product information as well as latest news, case studies, training videos and photographs, while also feeding directly into the Alphacam Twitter and Facebook social media channels. When downloading, be sure to accept the option to receive SMS message notifications about new releases and service packs.

General Manager Nick Spurrett says the very latest technology is enabling Alphacam to communicate with its global customer base in a fast, efficient and fashionable way. “The app provides our customers with instant access to the latest information about Alphacam, along with tips and tricks, success stories, and information about local User Group meetings.

Developed by Alphacam Area Manager David McIntyre, all areas of the app are easily accessed from the launch screen.

The app can be downloaded on to the Android platforms using Google Play, and on to the iPhone and iPad from the Apple app store.

“While customers and Alphacam resellers will find the free app extremely useful for instantly accessing information, news and offers, it also shows potential customers everything that’s happening in the world of Alphacam,” says Nick Spurrett.

Part of the Vero Software Group, Alphacam is a leading CAM solution providing productivity, reliability and flexibility. Vero has direct offices in the UK, Germany, Italy, France, Japan, USA, Brazil, Netherlands, China, South Korea, Spain and India supplying products to more than 45 countries through its wholly owned subsidiaries and reseller network.

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## ***Kubotek USA Announces 3rd eBook in Direct CAD Series: Direct CAD for the Contract Manufacturer***

30 June 2014

[Kubotek USA](#) has released its third eBook in a series designed to educate readers on the features and benefits of Direct CAD Modeling. [Direct CAD for the Contract Manufacturer](#) explores the unique issues that contract manufacturers face when working with their customer’s CAD files.

This new eBook follows on the heels of [Direct Modeling 101](#) an interactive multimedia eBook and [Direct Modeling 201](#), an advanced guide to Direct Modeling. With thousands of downloads, these eBooks have helped illustrate the advantages of Direct CAD Modeling over history-based methods. Direct CAD for the Contract Manufacturer covers many important topics that contract manufacturers, job shops and other manufacturing facilities must deal with on a daily basis:

- Importing customer files
- Redrawing designs
- Data reuse
- File translation and validating CAD translations
- Changes to the CAD model issued in midstream productions, and

- Using CAD models to develop tools, die and molds

Direct CAD modelers can significantly aid in the resolution of any of these stated issues, ultimately saving manufacturers time, while improving product quality and saving money not only for themselves, but for their customers.

Scott Sweeney, Vice President of Marketing for Kubotek USA says, “Some manufacturers think they are being wise by just adopting their largest customer’s CAD system in order to foster CAD reuse. They are amazed when their CAD operators must still redraw CAD files or spend time struggling with the inherent issues of history-based CAD systems. Managers want their highly paid CAD resources to spend time in value-added activities – not struggling with CAD files. This eBook aims to educate managers in contract manufacturing about the alternatives available to them so they can make more informed decisions when it comes to choosing the right CAD system for their manufacturing process.” The new eBook and other information about the advantages of Direct CAD can be found at [kubotek3d.com](http://kubotek3d.com).

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### ***MakerBot Unleashes the 3D Designer in Everyone with Launch of MakerBot PrintShop***

27 June 2014

Anyone with an iPad and a Fifth Generation MakerBot® Replicator® 3D Printer can now unleash their inner 3D designer with just a few taps of their finger. MakerBot PrintShop™, a fun, easy and free way to create and 3D print all kinds of cool things, makes its debut on the [iTunes App Store](#) this week. With MakerBot PrintShop, consumers of all ages interested in 3D printing can easily make signs, letters, nameplates, custom bracelets and rings, and many more items with this powerful and intuitive app that is easy to use with no 3D printing or design skills needed.

Optimized to be what MakerBot believes to be the ultimate companion app for all of its Fifth Generation MakerBot Replicator Desktop 3D Printers, and especially the MakerBot Replicator Mini Compact 3D Printer, MakerBot PrintShop is the first app designed for people with no experience in 3D printing and no design experience. This consumer-friendly app allows creation without a learning curve. Want to create beautiful and functional jewelry, signs, or access a personal Thingiverse Library? MakerBot PrintShop guides the user through a simple, yet intuitive interface that virtually creates custom 3D prints in a matter of minutes. All MakerBot PrintShop selected prints are MakerBot verified to ensure virtually full-proof 3D printing. No guesswork, sizing, or use of complicated design software. MakerBot PrintShop also works over WiFi, so just log on, create and print to a WiFi enabled Fifth Generation MakerBot Replicator 3D Printer.

“With the introduction of MakerBot PrintShop, we believe we have finally provided a piece of software that helps bring 3D printing to the masses,” noted Bre Pettis, CEO of MakerBot. “We have removed the obstacle of not knowing 3D design to be able to 3D print. MakerBot PrintShop takes that challenge out of the equation and makes 3D printing fun and easy, as well as accessible for all ages and skill levels.”

Harnessing the power of the cloud to access a library of MakerBot verified designs and customizable objects, MakerBot PrintShop offers several tools that make it easy to unleash creativity and easily 3D print things including three initial launch features of MakerBot PrintShop Type Maker, Ring Maker and Bracelet Maker.

# CIMdata PLM Industry Summary

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MakerBot PrintShop Type Maker is the first type tool created specifically by MakerBot for 3D printing letters, words, nameplates, sign and more. With MakerBot PrintShop Type Maker, the creator can make amazing fun and funky signs, blowing them into fanned-out proportions or printing them on the straight and narrow.

With MakerBot PrintShop Ring Maker, budding jewelry designers can custom-size and 3D print creative rings that sport a range of fun and interchangeable tops, such as a crown, bell, diamond, viking helmet, baseball cap, flower, owl, turtle shell, coffeemaker, cone, and even a photo frame with a photo insert to showcase a loved one or favorite scene.

The MakerBot PrintShop Bracelet Maker is the third feature in MakerBot PrintShop that allows the user to create, size and 3D print sophisticated bracelets featuring abstract patterns and designs.

All items 3D printed using MakerBot PrintShop can be printed in a variety of color combinations from the 20-plus MakerBot PLA Filament colors available for the Fifth Generation MakerBot Replicator 3D Printer family of printers. For users that want to save their designs for future printing, the app allows for storage of designs in a personal MakerBot Cloud Library. Users can also use the app to monitor, pause and cancel 3D print jobs remotely via a WiFi connection.

Download MakerBot PrintShop today for free in the [iTunes App Store](#). For more information on MakerBot and MakerBot PrintShop, visit [makerbot.com/printshop](http://makerbot.com/printshop).

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## ***MecSoft Releases VisualXPORT 2014 for SpaceClaim***

26 June 2014

[MecSoft Corporation](#) has announced the availability of the latest version of their fully integrated plug-in VisualXPORT 2014 for SpaceClaim.

VisualXPORT for SpaceClaim allows users to transfer SpaceClaim geometry directly to VisualCAD without having to go through a neutral format such as STEP or IGES. The solution provides an enhanced workflow for companies that design in SpaceClaim and use VisualCAD/VisualMILL in their manufacturing process.

“MecSoft provides easy-to-use and powerful tools for engineers and has won the trust of customers over years of product improvements, just as we have with SpaceClaim. This new integration is further evidence of MecSoft listening to customers and making their process easier,” stated Craig Wilkinson, director of marketing at ANSYS. “This will further streamline their work and ability to prepare geometry for manufacturing quickly and easily.”

“With VisualXPORT 2014 for SpaceClaim we’re able to meet the needs of MecSoft’s SpaceClaim customers that desire enhanced export capabilities beyond the traditional 3D DWG, STL, IGES and STEP formats,” stated Uday Honnalagere, Support Manager for MecSoft.

VisualXPORT 2014 for SpaceClaim is available in both 32 and 64 bit versions. To learn more about VisualXPORT for SpaceClaim, please visit [www.visualxport.com](http://www.visualxport.com).

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## ***New Product Intelligence Software Targets Fast Response to Environmental, Regulatory, and Supply Chain Risks***

30 June 2014

Granta Design today announced the release of the [GRANTA MI:Product Intelligence Package](#), a new suite of software and data that helps engineering enterprises to optimize products while minimizing environmental, regulatory, and supply chain risks. For the first time, MI:Product Intelligence provides fast, easy-to-use tools that draw on comprehensive, authoritative materials and environmental data in order to provide interactive, integrated feedback on this full range of risks within the CAD environment or, alternatively, via a new web browser application. This risk assessment focuses design efforts and supports compliance reporting, while avoiding the need for time-consuming data research—for example, in gathering information from suppliers.

The MI:Product Intelligence Package runs on the [GRANTA MI](#) platform, the industry-leading system for materials information management. [MaterialUniverse](#), one of many data modules available within GRANTA MI, provides property profiles for the full range of engineering materials and associated processes; thousands of records cover metals, plastics, composites, and more. This is augmented with regularly-updated data on restricted substances and the regulations that impact them (such as REACH) and on materials supply risks (e.g., due to obsolescence, price volatility, or use of conflict minerals). MI:Product Intelligence tools enable users to search and browse this unique data resource, apply it to parts within the CAD model or ‘Bill of Materials’ (‘BoM’) that represents their product, and then run reporting calculations that apply the data to predict environmental impacts and flag potential regulatory or supply problems.

Innovations that have enabled this release include:

- A new integrated ‘dashboard’ providing a single view of product performance against risk factors including: restricted substance content, lifecycle energy usage and CO2 footprint, and supply chain risks.
- [MI:Materials Gateway 2.0](#), the second-generation integration technology enabling materials applications to be embedded within CAD systems (Autodesk Inventor, CATIA, NX, Creo, and Pro/ENGINEER). CAD users will apply the new product intelligence tools to help optimize designs.
- [MI:BoM Analyzer](#), a new easy-to-use web browser application that enables users to import and edit existing Bills of Materials, build new BoMs from scratch, assign materials and processes within those BoMs, and run reporting calculations. Design teams will use this application to test design concepts pre-CAD. Product stewardship teams will use it for fast analysis of in-production or ‘legacy’ BoMs, enabling them to identify and report on risks in their product portfolio.

In addition to providing product intelligence, MI:BoM Analyzer is the first software tool developed using a new ‘web client framework’ capability in the GRANTA MI platform. This allows the rapid development of high quality, task-focused, yet ‘lightweight’ (i.e., fast and easy to install) applications that take advantage of both the full GRANTA MI infrastructure and the latest best practice in user interface design. Granta can apply this technology to quickly add new capabilities to the GRANTA MI toolset in response to specific customer needs.

# CIMdata PLM Industry Summary

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“MI:Product Intelligence is a step forward for Granta on two fronts”, said Dr Patrick Coulter, Chief Operating Officer of Granta Design. “It helps our customers to apply the material intelligence developed through GRANTA MI to deliver better, greener, safer products. And, through our new BoM Analyzer, it has demonstrated an enhanced capability to rapidly develop a new generation of GRANTA MI tools.”

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## ***SolidACE Announces Beta Testing of New Structural Data Interoperability Tool CIS2Works***

26 June 2014

SolidACE announced the Beta testing of brand new structural data interoperability tool CIS2Works for SolidWorks CAD environment, the early access preview of which was announced early this year.

CIS2Works focuses to simplified, fast and intelligent import and export directly to and from SolidWorks of AEC and Plant industry accepted structural steel data exchange formats, namely:

- CIS/2, the CIMSteel Integration Standards Rev. 2 format, adopted by AISC as a standard for structural steel interoperability,
- SDNF, the Steel Detailing Neutral Format, maintained still in a variety of plant and structural design systems for importing and exporting of steel structures.
- STAAD.Pro – the direct support of this file format, newly added in this Beta release.

“The direct support of Bentley STAAD.Pro, the leading structural analysis & design software used by structural engineering professionals worldwide, format was the most requested feature in other our add-in application for SolidWorks – BuiltWorks, so we decided to include STAAD.Pro support not only through interoperable CIS/2 format, but also directly in our new data translation utility CIS2Works” – commented Beta release of CIS2Works Arūnas Urbšys, Chief Operations Officer of SolidACE. “With its moderate price policy, CIS2Works will be also very cost-effective add-in application for SolidWorks community to have a link to structural steel world, opposite to purchasing some full-featured structural design application”.

The Beta version of CIS2Works is distributed free of charge and works without activation or registration, though limiting the size of the structure to be imported or exported.

Key features of CIS2Works Beta are:

1. Completely redesigned new exciting user interface, compliant with contemporary trends;
2. Import and export of CIS/2 and SDNF industry standard data exchange formats;
3. NEW direct support of STAAD.Pro structural analysis application file format;
4. Direct and full support of SolidWorks native Weldment feature, incl. structural plates;
5. Separate model preview window, facilitating very fast loading and preview of large models;
6. Grouping of members and plates identifying reusable components for lighter model creation;
7. Flexible mapping of imported member section profile names with Weldment library names.

The new CIS2Works Beta version will be available for download through SolidACE web site [www.solidace.com/free-cis2works/](http://www.solidace.com/free-cis2works/) immediately. The commercial release of CIS2Works is planned

for August 2014.

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## ***Tech Soft 3D Expands the Possibilities of 3D PDF with HOOPS Publish v7.2***

30 June 2014

[Tech Soft 3D](#) announces that the newly-released [HOOPS Publish](#) v7.2 provides powerful options that give developers even more control over their applications' 3D PDF output. New features enable complex and highly-customized 3D PDF templates that more completely and accurately convey all aspects of a project's 3D data – ideal for an MBE (Model-Based Enterprise) approach to engineering. With this latest release, developers can create:

- Buttons within the PDF document during authoring using a high-level API.
- A custom “carousel” of desired views of the model without the need to write JavaScript.
- Buttons, hotspots and editable text fields within cells in a table.
- Slide tables that can contain an unlimited number of rows but still fit within a set size in the PDF.
- Digital Rights Management – all native DRM features are now exposed, allowing maximum security and rights management.

“Our objective is to expand the possibilities of 3D PDF by giving developers the flexibility to respond to their users' needs,” says Gavin Bridgeman, Tech Soft 3D VP of Products. “These latest enhancements help developers create value by reimagining how data can be captured and shared for greater efficiency throughout a project workflow.”

Mark Stowe, CTO of [Theorem Solutions](#), says, “At Theorem Solutions we are spearheading a new era of intelligent information exchange based on 3D PDF as part of our latest Publish 3D products. Powered by the HOOPS Publish libraries, Publish 3D allows 3D PDFs to be generated from all major CAD systems, allowing users to view, mark-up and distribute rich CAD data with all the ease, rights control and data-protection managed by Adobe® through their ubiquitous Adobe Reader®.”

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## ***Visual 2000 Announces PLM.net Mobile QR Code Implementation***

3 July 2014

Staying true to their commitment as technology leaders in the world of PLM, Visual PLM.net users can now track samples, retrieve quick product information, capture specifications and measurements with a simple scan of a QR Code. QR Codes, which stands for Quick Response, is a modern barcode scannable by any smartphone or tablet, including iPhones, iPads, Blackberry and Android devices. Users can now gain instant access to information stored on VisualPLM.net using their mobile device.

"The technology is readily available to millions of smartphone and tablet users and very few software vendors are leveraging this simple and powerful technology for the real-world," says Charles Benoualid, VP of Research and Development. "Our users will be able to instantly generate QR Codes for any

product stored on our Visual PLM.net software and tag the products so they can be tracked, retrieved and spec'd from any mobile device."

The new VisualPLM.net Mobile feature is responsive to any device, simplifying many daily activities and increasing productivity. QR Code integration can be notably used for factory quality control, allowing product information to be retrieved and stored on a mobile device as opposed to remotely logging onto VisualPLM.net. Tracking samples, sending and receiving parcels is now instantaneous at reception. Whether working with a customer, sales representative, or a factory, specific information can be tailored to the targeted audience without having full access to PLM.

QR Code scanners are now imbedded into most devices' operating systems and are easily downloadable from any app store at zero cost. The QR Codes can be sent to any printer directly from Visual PLM.net and anyone with login credentials to PLM can get direct access from a mobile device with this responsive web app.

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## ***Zuken Reduces Manufacturing Costs with Latest E3.series Release***

1 July 2014

Zuken announces manufacturing cost reductions through enhanced electrical design. The latest version of [E3.series](#) – Zuken's electrical and fluid CAD software – contains integration with [B&R Automation Studio](#), data export for drilling and milling machines, XVL output for Lattice viewer, and enhanced support for Komax and eCl@ss. Support for harness families and harness derivatives within a single design offer time-saving benefits for the transportation sector.

"Today, workers often need to manually interpret manufacturing documentation in order to assemble control systems. Now, with automatically-produced wires and step-by-step routing instructions, the need to read and interpret these documents is removed. This gives companies the option to retain assembly in-house, thereby reducing manufacturing outsourcing costs." - Joachim Frank, Director of E3.series business

### **Manufacturing process cost reductions**

- E3.series 2014A adds new and enhanced manufacturing features to reduce manufacturing costs. Manufacturing output for drilling and milling machines is automatically-produced by E3.CutOut. This uses drill hole and cutout definitions from the E3.series library to export data such as outlines, cut outs, drill holes and restrictions in standardized DXF format. Machining preparation time is reduced and accuracy increased.
- With enhanced Komax support, automatically-produced wire bundles mean assembly teams do not need to create and cut wires manually by referring to schematic drawings. Estimates show this leads to a reduction in assembly time of more than 50%.
- Lattice viewer support includes XVL format. This enables 3D panel viewing and animation in XVL Player from Lattice. With XVL Studio, users can generate animated, step-by-step assembly movies making the manufacturing process clearer and faster.

### **Enhanced automation**

# CIMdata PLM Industry Summary

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The new [E3.PLC Bridge](#) provides easy-to-use bidirectional PLC data exchange in formats such as B&R Automation Studio – widely-used in the machinery sector. B&R Automation Studio allows the controller, drive, communication and visualization to be configured in one environment, reducing integration time and maintenance costs. With bidirectional transfer of data, interaction between electrical design and software development teams is accelerated and data quality improved.

## **Advanced component data**

Zuken's new eCl@ss Advanced tool enables efficient download and read-in of electrical component data from the eCl@ss format into E<sup>3</sup>.series libraries. eCl@ss is the standard for classification and description of products for 39,000 product classes and 16,000 properties spanning all disciplines. eCl@ss Advanced, provided by component manufacturers, contains electrical component data to quickly create library components that are up-to-date and accurate.

## **Many options, one design**

In [E3.cable](#) and [E3.formboard](#), harness families and harness derivatives are supported within a single design, eliminating the need to handle different options of the same wire. Different wire lengths requiring specific properties can be handled within a single design and viewed and managed with fewer steps.

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