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## CIMdata News

### ***CIMdata Announces Expansion of Simulation & Analysis and Systems Engineering Consulting Practices***

1 October 2013

CIMdata, Inc., the leading global Product Lifecycle Management (PLM) management consulting and research firm, announces the expansion of its current Simulation & Analysis and Systems Engineering consulting practices. While continuing to focus on research for each discipline through their respective PLM Foresight Knowledge Councils, the consulting practice will concentrate on the development and adoption of next generation, synergistic model-based strategies and systems-driven processes to improve product innovation and new product development return on investment.

As part of this expansion, Peter Bilello, President of CIMdata, announces that Donald Tolle will lead the practice. Don's title will be Director, Systems Engineering & Simulation Consulting Practice. "We are very pleased that Mr. Tolle will be leading this expanded practice, working along side Dr. Keith Meintjes (Simulation & Analysis Knowledge Council Lead) and John MacKrell (Systems Engineering Knowledge Council Lead) along with other senior staff members to expand CIMdata's management consulting capabilities," stated Mr. Bilello. "Don is a tested and proven veteran of the PLM software and services industry with a rich perspective and deep experience base that extends back to the early days of computer-aided engineering technology at Structural Dynamics Research Corporation (SDRC). He has extensive global experience in the development, go-to market planning, and deployment of advanced technologies and processes within many different industry sectors that CIMdata presently serves."

"While there have been many significant advances in the numerous process and technology-related

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disciplines within Simulation & Analysis and Systems Engineering, there are still significant organizational, cultural, and process barriers to realizing the long promised business benefits of virtual product development from tightly coupled cross-disciplinary systems engineering and design,” stated Mr. Tolle. Independent silos of product knowledge and data exist throughout the traditional Systems Engineering ‘Vee’ approach that inhibit holistic, multi-disciplinary thinking with the rapid verification and validation of ‘right-to-market’ designs. More flexible and collaborative organizational models will be required for industry to achieve maximum return on investment (ROI) from the synergies of simulation & analysis and systems engineering principles. Advancing and promoting model-based and systems-driven product development processes spanning the complete spectrum of mechanical, electrical, software, controls, chemical, optics, and associated manufacturing disciplines is a major goal of the consulting practice.

With this expanded consulting practice, CIMdata will offer a portfolio of management consulting services for industrial organizations as well as for software solution providers and their partners who offer simulation & analysis and systems engineering solutions. A few of these services and deliverables include:

- Defining and implementing organizational best practices for systems engineering and simulation lifecycle management within the construct of enterprise PLM processes
- Assessing the technology, process, and organizational maturity levels for exploiting advancements in solutions and strategies
- Providing practical technology implementation recommendations to industrial firms
- Pushing the broad adoption of S&A and SE strategies beyond the traditional users in aerospace and automotive
- Providing thought leadership by supporting research that promotes the adoption and growth of best-in-class software applications
- Workshops to facilitate education and collaboration between industries and solution providers
- Developing and validating technology roadmaps with ROI benefit models for the deployment of new processes and technologies
- Strategic business review and planning including growth via merger and acquisitions
- Support of solution marketing with market research of user requirements and gap analysis

This consulting practice will leverage CIMdata’s thirty years serving both industry and solution providers with management consulting, market research and analysis, and best practices education. For more information contact CIMdata at [info@cimdata.com](mailto:info@cimdata.com) or at +1 734.668.9922.

## **About CIMdata**

CIMdata, a leading independent worldwide firm, provides strategic management consulting to maximize an enterprise’s ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding in 1983, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM-enabling technologies.

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CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia Pacific. To learn more about CIMdata's services, visit our website at [www.CIMdata.com](http://www.CIMdata.com), follow us on Twitter: <http://twitter.com/CIMdataPLMNews>, 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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## ***ENOVIA Product Update: A CIMdata Highlight***

1 October 2013

CIMdata recently had the opportunity to spend the day with the senior leadership of the ENOVIA brand at Dassault Systèmes. Just as the ENOVIA offering powers the V6 architecture, so too does it power the 3DEXPERIENCE platform, the moniker used for the entire Dassault Systèmes portfolio. While other meetings have provided details on the company and their comprehensive industry strategy, having this dedicated time with the ENOVIA team was extremely valuable.

During the course of the day, updates were received on a number topics including:

- **Systems engineering**—Dassault Systèmes has made significant progress combining the Geensoft and Dymola offerings across the entire portfolio. In the case of ENOVIA, this includes combining these offerings with the ENOVIA-based requirements management capabilities. Companies can now work on the Requirements-Functional-Logical-Physical (RFLP) views of their evolving products in a much more seamless manner.
- **SmarTeam**—The demise of this long-time Dassault Systèmes offering has been greatly exaggerated, with many Value Added Resellers (VARs) still selling SmarTeam to new clients. Dassault Systèmes shared their views on SmarTeam's future, and presented very clear paths for different customers to move from SmarTeam to other Dassault Systèmes offerings when THEY choose. The SmarTeam offering will be available for some time to come, with maintenance and enhancement requests still being routinely processed.
- **Data management in V6**—CATIA V5 was an “object influenced” solution delivered in a file-based world. In V6, data is managed in a more truly object-oriented fashion, which provides some unique capabilities for collaboration, and data and information sharing. CIMdata expects to see more PLM-enabling solutions move away from file-based data management in the coming years because of the benefits of the more granular level of data management provided within V6's database structure.
- **The IFWE Compass user interface**—This new face of the 3DEXPERIENCE platform was shown

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briefly at the June Industry Analyst event, but this daylong session allowed us to see it support many more use cases. The automatic tagging and indexing of all managed information (called 6W) should provide significant benefits downstream. This tagging approach is not seen in offerings from other PLM solution providers.

The visit to ENOVIA was time extremely well spent, and we look forward to some follow up meetings to discuss Enginuity and several other topics. ENOVIA and Dassault Systèmes are making great strides in meeting their experience-based vision, and CIMdata looks forward to the opportunity to interact with early adopters going forward.

## 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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## Acquisitions

### *Accenture Completes Acquisition of PRION Group*

1 October 2013

Accenture has completed its acquisition of PRION Group – a leading consulting and systems integrator that specializes in Siemens Product Lifecycle Management (PLM) Software. The acquisition strengthens Accenture's PLM skills and enhances its ability to help clients deliver products to customers faster and more efficiently.

The acquisition expands Accenture's end-to-end PLM offering by combining PRION Group's full range of PLM services with Accenture's existing PLM capabilities. PRION Group's skilled workforce specializes in PLM strategy and process consultancy, system implementation, data migration, application management and PLM as a managed service. The combination of these skills with Accenture's management consulting, technology and outsourcing capabilities aims to create a market-leading global PLM offering for manufacturing industries including industrial equipment, automotive, consumer goods, and aerospace and defense.

Accenture announced its agreement to acquire PRION Group on August 12, 2013.

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Eric Schaeffer, senior managing director with Accenture, said: “The acquisition of PRION Group will enable Accenture to help our clients increase the return on investment in PLM by accelerating and optimizing their implementations, particularly in Europe and North America.”

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## ***Autodesk Signs Agreement to Acquire Structural Fabrication and Detailing Technology from Graitec***

2 October 2013

[Autodesk, Inc.](#) has signed a definitive agreement with the shareholders of Graitec to acquire certain technology assets, including Graitec’s Advance Steel and Advance Concrete product lines, and associated employees. The acquisition will enhance Autodesk’s current offerings for structural engineering and expand its portfolio of technology for [Building Information Modeling](#) (BIM) for structural fabrication and detailing. Through the proposed acquisition, Autodesk will continue to lead the industry’s migration to BIM and evolution of model-based workflows for structural engineers, detailers, fabricators and contractors who provide modeling, analysis, detailing, and production services. The transaction is expected to close in the 4th quarter of fiscal year 2014 and is subject to customary closing conditions. The financial terms of the transaction were not disclosed.

“Autodesk continues to extend Building Information Modeling across the building lifecycle. The proposed acquisition of the Graitec technology will provide our customers with a more seamless structural engineering workflow, from design to fabrication and to construction, with enhanced offerings for structural steel and concrete detailing,” said Amar Hanspal, Autodesk senior vice president of Information Modeling and Platform Products. “We look forward to welcoming Graitec employees, customers and partners to the Autodesk community.”

Graitec is a global provider of CAD and engineering software for structural engineering, civil engineering and building construction headquartered in France. Graitec’s Advance Steel and Advance Concrete products offer modeling, detailing, and fabrication solutions to support BIM-based steel and reinforced concrete workflows. Graitec will continue to sell and support Advance Steel and Advance Concrete, as well as sell, support, and develop its remaining products for structural engineering.

"Autodesk's acquisition of the Advance Steel and Advance Concrete products in support of its BIM strategy is a testament to the expertise of the Graitec team and the quality of our steel and concrete detailing solutions," said Francis Guillemard, CEO, Graitec. "Graitec continues to develop dedicated BIM software and services that are complementary to Autodesk, and together we look forward to maximizing the efficiency and performance of the global construction industry."

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## ***Bentley Extends SACS’ Leadership in Engineering Software for Offshore Structures with Acquisition***

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## *of MOSES*

3 October 2013

Bentley Systems, Incorporated, announced that it has acquired the *MOSES* software business from Ultramarine, Inc. Used around the world, *MOSES* is the premier analysis and simulation software for complex projects involving the transportation and installation of offshore structures, including the launch of jackets and floatover of topsides.

Featuring functionality covering the full range of stability, motions, and mooring of single or multiple floating bodies, *MOSES* has become the mainstay for professional engineers to reliably meet stringent offshore code requirements, reduce project risks, and increase safety. With this newest addition to its portfolio, Bentley further strengthens its leadership in the accelerating offshore energy industry following its acquisition in March 2011 of *SACS*, flagship software for the structural design of fixed offshore structures. The integration of *MOSES* and *SACS* enables unprecedented comprehensiveness in offshore engineering, in particular for the analysis and design of floating production, storage, and offloading (FPSO) structures.

David Hollister, Bentley CFO, said, “Bentley’s acquisition and mainstreaming of *SACS* advanced the breadth of capabilities available for the design of offshore infrastructure – for instance, now including wind farms. *SACS*’ wider adoption and rapid development since becoming a Bentley offering underscores our commitment to the offshore industry. The addition of the *FormSys* naval architecture technology to *SACS* in November 2011 expanded its reach to address FPSO units and other floating systems. The acquisition of *MOSES* now extends our software’s capabilities to include the most complex analyses of all types of offshore installation projects. We will be working closely with Ray Nachlinger, creator of *MOSES* and CEO of Ultramarine, Inc., as we integrate *SACS* and *MOSES* to deliver unrivalled FPSO design tools.”

Nachlinger said, “We at Ultramarine are very pleased that *MOSES* has a new home at Bentley Systems, and I view my new consulting role as an opportunity to accelerate what software can contribute to the creation and deployment of more varied and resilient offshore structures. We’ve seen how Bentley quickly provided the users of *SACS* with greater value, and this makes us all the more confident that the Bentley team will do the same for the users of *MOSES*.”

Phil Christensen, Bentley vice president, offshore, said, “Our next step is to leverage the Bentley technology platform to enhance *MOSES*’ modeling and graphical visualization capabilities, as well as its ease of use. This will improve the user experience and extend the application of *MOSES* for more interactive design decisions. In addition, full integration between *SACS* and *MOSES* will allow a cohesive model to be used for all structural and naval architectural analyses.”

## **SACS Going Forward**

*SACS* continues to be the analysis mainstay for the world’s offshore engineers. With 70 percent of the Earth under water, better-engineered, safer offshore structures will play an ever greater role in sustaining

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the world's economies and environment. Accordingly, *SACS* is being applied to enable ever-more complex marine endeavors.

For example, in the Tokyo International Airport re-expansion project – a 2012 *Be Inspired* Award winner for Innovation in Offshore Engineering – Nippon Steel & Sumikin Engineering Co., Ltd., used *SACS* to conduct fatigue analysis on the 1,100-meter-long steel jacket structure for this runway that extends into the sea. Recently, *SACS* was instrumental in unique work being done to salvage the Costa Concordia from the marine sanctuary off the Italian island of Giglio, where it capsized last year. In this 2013 *Be Inspired* Awards finalist project, TECON S.r.l. used *SACS* to design underwater platforms and other auxiliary structures that helped the ship to be righted intact – an unprecedented process that minimized environmental impact.

The integration of *MOSES* will enable Bentley Systems to continue to empower offshore engineers to think bigger, and implement safely.

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## Company News

[Cimatron Limited](#) announced today that it has signed an agreement with MachineWorks Ltd for the integration of Polygonica into its next release of CimatronE.

The Polygonica technology is founded on 20 years of development and provides a full set of fast, robust and powerful polygon/mesh modeling operations, including solid STL healing, Boolean operations, offsetting and simplification. It also provides mesh body metrics, including 3D volume, bounding box and surface area.

Polygonica's mesh/STL CAD capabilities augment the CimatronE hybrid modeling system, by adding powerful mesh-based features to the existing solid/surface/wireframe CAD modeling. Mesh-based modeling is often used in a variety of end-user applications, such as Reverse Engineering, and production of complex 3D shapes.

Commenting on the agreement, Danny Haran, CEO of Cimatron said: "MachineWorks is a long-time partner of Cimatron. Our recent agreement, enabling the integration of the Polygonica technology into CimatronE is yet another step in strengthening our partnership with MachineWorks in support of existing and future manufacturing technologies. We believe Polygonica's state-of-the-art mesh-based modeling can help us bring significant added value to both CAD and NC users."

"We are pleased to provide yet another leading technology to Cimatron and its customers", said David Manley, Managing Director of MachineWorks. "Polygonica is used in the CAD industry, but is also aimed at 3D Printing and Additive Manufacturing users and bureaus. It provides fast, built-in and fully automatic solid model healing to ensure that all models are ready for printing. We are excited about its future potential and look forward to continue working closely with Cimatron", concluded Mr Manley.

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## ***Luxion Announces ABISSE as KeyShot Reseller***

1 October 2013

Luxion today announced ABISSE as its newest software reseller for KeyShot in France. Under this agreement, ABISSE becomes the main French Siemens Reseller around Solid Edge and NX mechanical design software to offer Luxion's KeyShot 3D rendering and animation software to its customers. ABISSE provides full sales and technical support for KeyShot throughout France.

KeyShot is an interactive 3D rendering and global illumination program developed by Luxion for both PC and Mac that breaks down the complexity of creating photographic images from 3D models. Combined with its ease of use, KeyShot gives anybody involved with 3D data the ability to create photographic images in a matter of minutes, independent of the size of the digital model. KeyShot directly accepts models from the widest variety of 3D software formats on both PC and Mac operating systems, as well as through enhanced plugins for select 3D software. Enabling software resellers around the world to pass this value on to their customers is a key focus of the Luxion Reseller Network.

“Quality rendering is a big benefit for an innovative company, but it's often time consuming, costing a lot of money for the department using the wrong tools,” says Sébastien Debeix, Operating Manager of Abisse, “With KeyShot's ease of use and the powerful integration between KeyShot and design software such as Solid Edge & NX, any department can create quick, professional renderings in a few seconds, without being a professional photographer or a 3D software user. KeyShot offers the right solution to any user who want to realize a professional rendering.”

“We are very pleased to have Abisse as part of the Luxion Reseller Network,” says Tuan TranPham, Global Channel Director at Luxion, “Abisse understands the market and how users are able to improve their product visuals using KeyShot. With their focus on support, commitment to service and a strong reach throughout their area, we have a partner who can help us further penetrate the French speaking markets of Europe.”

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## ***Phase II of Composite Data Management Project to Extend Support for Composite Innovation***

3 October 2013

Granta Design today announced Phase II of a Project to enable effective management of composite materials information, providing essential support for organizations that are innovating in their use of composites. The Composite Data Management project is driven by the [Material Data Management Consortium](#) (MDMC), a unique collaboration that develops and applies software to manage mission-critical materials data in the aerospace, defense, and energy sectors. Today's announcement comes from the [JEC Americas Show](#) in Boston, MA, where Granta are demonstrating the software tools that resulted from Phase I. Granta will also speak on this topic at the upcoming [SAMPE Tech Conference](#) in Wichita,

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KS (Oct 21-24).

In Phase I of the Project, members of the MDMC's Composites Subcommittee (which include Boeing, GE Aviation, Honeywell, NASA, Northrop Grumman, Raytheon, Rolls-Royce, and others) guided design of a database structure to capture the complex interconnected data needed to characterize composite materials. They also specified requirements for tools to help them apply this information traceably and securely within their organizations. Granta Design used these findings to develop composite data management templates and tools within the leading materials information management system, [GRANTA MI™](#).

Five areas were identified where composites pose a particular data management challenge:

- Ensuring traceability
- Capturing complex interrelationships
- Handling anisotropy
- Maintaining additional variables
- Capturing processing information.

At the end of Phase I, a robust materials information management solution has been developed to meet these challenges. It ensures that data is easily accessible, traceable, and available for use in further analysis, and that the results of this analysis can then be stored in the same system. The effectiveness of this solution has been validated through practical application by MDMC members. Phase II will draw on this experience to further advance the system, reducing risk and saving time in the development of composite structures and the products that use them.

“The main focus of the Material Data Management Consortium has always been to maximize productivity, while maintaining quality, traceability, and security of mission-critical materials data,” explains Granta’s Dr. Will Marsden. “As the Composites Subcommittee enters Phase II, we look forward to drawing on the requirements, experience, and expertise of the members to further enhance this solution. We invite any organization with an interest in managing or using composite data to join this collaboration, which represents a very cost-effective way to implement best practice.”

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## ***Tata Technologies Partners with iSquare to Provide Highly Specialized Solutions for the Manufacturing Industry***

1 October 2013

Tata Technologies announced its partnership with iSquare, a premier distribution partner and service provider in 3-DVA (3 – Dimensional Variation Analysis and management). Through this partnership, Tata Technologies and iSquare will provide customers graphical variation analysis solutions using 3DCS software, a core tolerance simulation offering from USA based Dimensional Control Systems,

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Inc. (DCS).

3DCS is a market leader in the dimensional engineering domain, which helps enterprises improve and validate their product designs in a virtual prototype arena thus enabling development teams to cut costs and accelerate time to market. 3DCS offers superior and precise Geometric Dimensioning and Tolerance (GD&T) validation, improved tolerance optimization and seamless integration with design and manufacturing systems.

Mr. Samir Yajnik, President Sales & COO Asia-Pacific, Tata Technologies said, “With the latest value addition of 3DCS Graphical Tolerance Simulation software, we are now equipped to help customers across all business verticals including automotive and aerospace, to optimize their designs and enhance overall assembly quality. We strongly believe that the integration of improved tolerance analysis techniques will potentially minimize inconsistencies between product design and the output. 3DCS is a valuable addition to our diverse portfolio of product design and engineering solutions.”

Mr. Rajendra Deshmukh, iSquare was quoted saying, “We are delighted to partner with Tata Technologies to expand the reach of our premier software solutions, domain expertise and professional programs in the domain of Dimensional Engineering and Management. We are very positive of the relationship and are now ready to go to market with our world class integrated solutions for Dimensional Variation management and Tolerance Analysis with support from Tata Technologies.”

With over two decades of experience in the engineering services domain, Tata Technologies recognizes the immense potential that tolerance analysis solutions hold in reducing manufacturing costs and mitigating critical issues early on in the design process. The engineering team at Tata Technologies is committed to leverage its expertise, supplemented by the addition of 3DCS software systems to provide distinct solutions to customers spread across a wide range of segments in the manufacturing industry.

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## ***TCS Named in Forbes' World's Most Innovative Companies List***

27 September 2013

Tata Consultancy Services (TCS) announced that it has been recognized by Forbes as one of the World's Most Innovative Companies. TCS ranked 40<sup>th</sup> overall, making it not only the highest ranked IT services company to make it to the list, but also the top Indian company.

“To be included in the upper echelons of Forbes' World's Most Innovative Companies list is a tremendous honor for me, our employees and our company,” said N Chandrasekaran, CEO and MD, TCS. “As a global company, we pride ourselves on our ability to think creatively, deliver cutting-edge solutions and strategically customize our offerings to meet global needs on a local level.”

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TCS has a longstanding history of delivering innovative solutions to its customers. The company set up its first R&D lab in 1981, when the technology industry in India was just taking shape. There is a strong culture of innovation with multiple innovation labs for every industry that TCS works with. The company has multiple [academic partnerships](#) and a global network of [Innovation Labs](#) that provide an environment for sophisticated research in leading-edge technologies, and various domains ranging from [life sciences](#) and [insurance](#) to [retail](#) and [financial services](#).

Furthermore, [TCS' Co-Innovation Network \(COIN™\)](#) provides value to its customers across the entire technology and business landscape, forging and nurturing bonds with academic institutions, start-ups, venture funds, strategic alliance partners, multilateral organizations and TCS' customers.

TCS attracts the best talent to its labs by investing its resources in systems, software and applications research, and collaborating with technology partners and universities such as The Massachusetts Institute of Technology, University of California at Berkeley, Stanford University, Singapore Management University, Indian Institutes of Technology, and the Indian Institute of Science.

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## ***Tri-D Technologies Partners with Dassault Systemes***

2 October 2013

Tri-D Technologies Inc., makers of the ExactFlat suite of 3D CAD products, announces that it has partnered with Dassault Systèmes. As a result of the partnership, Tri-D Technologies has become an approved SOLIDWORKS Solution Partner, supporting the SOLIDWORKS 2014 3D design portfolio.

ExactFlat is a software product that makes it faster and less complicated to design, develop, prototype, cost and manufacture products that incorporate composites, industrial fabrics or technical textiles.

"SOLIDWORKS is a natural fit for our premium product, ExactFlat Design Studio," stated Eaton Donald, President of Tri-D Technologies. "Firstly, integrating ExactFlat's proprietary tools with the powerful parametric design environment of SOLIDWORKS sets a new benchmark for sewn product design software. Secondly, the SOLIDWORKS global ecosystem of resellers and millions of trained users makes this offering easy to implement and maintain as these manufacturers continue to seek productivity gains and cost savings."

ExactFlat extends the capabilities of SOLIDWORKS to enable: automatic flattening of 3D CAD files into 2D flat patterns; the addition of design features such as notching, seam allowances, and grain lines; automated (and parametrically-linked) nesting; and drag-and-drop documentation, costing, bill of materials, and manufacturing routing.

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"Offering our customers an integrated experience is critical to saving them time and money," said Nick Iwaskow, Senior Alliances & Partnership Manager, SOLIDWORKS, Dassault Systèmes. "By integrating ExactFlat's flattening, nesting, costing and documentation features developed specifically for sewn product manufacturers with SOLIDWORKS' powerful design environment, our customers can achieve unprecedented productivity gains."

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## Events News

### ***3D Systems Celebrates Manufacturing Day with Open House Events Nationwide***

3 October 2013

[3D Systems](#) announced today that it plans to host several MFG (Manufacturing) Day open house events on Friday October 4, 2013. 3D Systems invites the public to participate in a series of interactive demonstrations of its latest professional and consumer content-to-print products including its production-grade printers. The company plans to showcase its advanced metal, plastic, ceramic and full color printing capabilities along with its innovative design and inspection tools and its award winning consumer 3D printers, Cube and CubeX. Participating locations include the company's headquarters in Rock Hill, SC, its advanced research and manufacturing location in Andover, MA, and its software center in Morrisville, NC. [Registration](#) remains open until Friday October 4, 2013 at 9am.

MFG Day gives leading American manufacturing companies the opportunity to open their doors in unity and tell today's story of advanced manufacturing. MFG Day is co-produced and sponsored by manufacturing industry organizations including Fabricators & Manufacturers Association (FMA), U.S. Department of Commerce's Manufacturing Extension Partnership (MEP), National Association of Manufacturers, Manufacturing Institute and the Science Channel.

"We are excited to open our doors to our local communities and show how 3D Systems is manufacturing the future right here at home. Engineers, students, designers, doctors, architects and even families at home can participate in the next manufacturing revolution," said Cathy Lewis, Chief Marketing Officer, 3D Systems. "We believe that the environmental sustainability of 3D printing technology including localized manufacturing, less material usage and mass customization capabilities of 3D printing is changing the way we create and make everything, from the cars we drive and medical devices we need to the jewelry we wear."

[Register](#) today for 3D Systems MFG Day events.

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### ***Aras Sponsors Product Innovation & PLM Road Map Conference***

1 October 2013

# CIMdata PLM Industry Summary

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Aras® today announced that the company will sponsor and present at the Product Innovation & PLM Road Map Conference, October 9th and 10th at the Hilton Indian Lakes Resort in Bloomingdale, Illinois USA. Details and registration at <http://us.picongress.com/>

The conference offers two days of strategy-focused sessions about how leading companies are successfully developing, deploying and integrating PLM technologies to address the challenges of today's complex product development, manufacturing and supply chain environments.

Attendees can find out about the advanced capabilities of the Aras PLM platform in multiple conference sessions and can visit Aras in the exhibitor showcase to learn about the complete suite of Aras PLM solutions from Aras partners, including Ilesfay, Integware, Kalypso, PSC, SofTech, xLM Solutions and xPLM.

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## ***ATS to Showcase Edgecam during Six Solidworks Events***

4 October 2013

ATS (Adaptive Technology Solutions), a reseller of Vero Software's Edgecam CAD/CAM software will be showcasing the latest version of Edgecam at six Solidworks Events during the month of October. The series of events are located in the Heartland of America and will take place from 7:30am – 3:30pm.

Attendees will have the opportunity to explore the latest in Edgecam's newest release – Workflow. Workflow is specifically designed for ease of use. The new release guides the user through the programming process in five easy steps – Native file open, part setup/fixtures, feature creation, toolpath creation, and post processing. Once each step is complete, the user moves intuitively to the next stage, completing each process in turn, resulting in a fully programmed, fully collision-checked part with swift and accurate CNC code generated.

Workflow will have a significant impact on shortening programming time, and because it is so simple to operate, the learning curve for new users is considerably reduced. The end result is effectively meets today's manufacturing demands to reduce costs, improve quality and meet shorter lead times.

Workflow will have a significant impact on shortening programming time, and because it is so simple to operate, the learning curve for new users is considerably reduced. The traditional CAM commands remain available at all times, and the user can alternate between the two. CAD/CAM technology in CNC communications and machine monitoring using Spectrums Multi DNC and monitoring system. Come see the ATS staff at the SolidWorks 2014 launch event. We will be displaying the latest and unique CNC programming method of SolidWorks solid model files using Edgecam's newest technology "WORKFLOW".

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**Dates & Locations:** All shows will be from 7:30am to 3:30pm

Columbus, OH	Oct 15	Marriott Northwest
Dayton, OH	Oct 16	National Composite Center
Cleveland, OH	Oct. 22	Cleveland Marriott East
Cincinnati, OH	Oct 29	Cincinnati Marriott North
Indianapolis, IN	Oct 30	Indianapolis Marriott North

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## ***Autodesk Hosts Annual Investor Day***

2 October 2013

Today, [Autodesk, Inc.](#) is hosting members of the investment community at its annual Investor Day. Held in the [Autodesk Gallery](#) in San Francisco, the design and engineering software leader will share plans for expanding its market opportunity and transitioning to a more ratable and recurring business model. Autodesk also reiterated its revenue and non-GAAP EPS third quarter fiscal 2014 business outlook, updated the third quarter GAAP EPS business outlook, and provided initial business outlook for its fourth quarter of fiscal 2014. In addition, Autodesk announced that it had signed a definitive agreement with the shareholders of Graitec to acquire technology and expertise for structural fabrication and detailing including Graitec's Advance Steel and Advance Concrete product lines (see related announcement).

“We are transforming our business to better serve the growing number of people that rely on Autodesk tools every day and position the company for its next stage of growth,” said [Carl Bass](#), Autodesk president and CEO. “We believe our ability to capitalize on the technology and market dynamics affecting our business will expand the number of designers, engineers, builders and creators using our desktop, mobile and cloud-based software.”

At today's event, Bass will join [Mark Hawkins](#), Autodesk executive vice president and CFO, and other members of the [Autodesk leadership team](#) to discuss the demands and opportunities of the current market, business model transition, financial metrics, and the company's corporate strategy.

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## ***AVEVA exhibits at ADIPEC 2013***

1 October 2013

AVEVA announced today that it is exhibiting at ADIPEC 2013, taking place 10-13 November at ADNEC, Abu Dhabi, UAE. Visitors to stand 4410 / 4316 in Hall 4 will see the most advanced software available for engineering, design and Information Management, that enables high productivity both for

# CIMdata PLM Industry Summary

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engineering contractors (EPCs) and Owner Operators (OOs).

Evgeny Fedotov, Senior Vice-President, Russia, India & Middle East, AVEVA, comments, 'ADIPEC is the largest show of this kind in the region. It gives us the ideal opportunity to meet with the most important players in the Middle Eastern oil & gas industry. We will be demonstrating the breadth and power of our solutions for efficient engineering project execution and asset lifecycle management. We look forward to showing Owner Operators and EPCs how productive our engineering, design, and operations support software is.'

AVEVA's Integrated Engineering & Design approach improves project efficiency and reduces engineering and design costs by offering complementary products that draw on common processes, disciplines and deliverables, through a single managed information model. AVEVA will showcase a number of products that form part of this approach:

- [AVEVA Everything3D™](#) - AVEVA's next-generation plant design software, that drives the adoption of Lean Construction by enabling EPCs to close the feedback loop between design, fabrication and construction, reducing overall project cost, risk and delivery time
- [AVEVA Engineering™](#) - software for managing the evolving multi-discipline engineering data for tagged items such as lines and equipment
- [AVEVA Electrical™](#) - a feature-rich software suite for electrical engineering and design
- [AVEVA Instrumentation™](#) - the best-in-class application for Instrumentation and Control systems engineering, design, documentation and management
- [AVEVA P&ID™](#) - an intelligent, AutoCAD-based P&ID design application

AVEVA will also exhibit its powerful Information Management and Enterprise Asset Management solutions.

AVEVA provides software that can integrate, control and exploit all types of information - not only engineering data - throughout the entire asset lifecycle. Both for EPCs and Owner Operators, AVEVA enables Engineering & Design to be combined with Management & Control in a single, coherent strategy.

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## ***AVEVA exhibits at INMEX India 2013***

3 October 2013

AVEVA announced today that it is an exhibitor at INMEX India 2013, taking place October 8 -10 at the Bombay Exhibition Centre, Goregaon East, Mumbai.

Visitors to the AVEVA stand B 125 will be able to see a host of software solutions for the shipbuilding industry. AVEVA will demonstrate [AVEVA Marine™](#), its marine-dedicated Integrated Engineering &

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Design solution that provides a suite of software for the design and construction of every type of ship and offshore project. AVEVA will also exhibit its LFM laser scanning portfolio, which is hardware and software vendor-neutral, accepting data from all 3D laser scanners and exporting to all leading integrated 3D design systems, CAD and Review platforms.

In addition, AVEVA experts will present solutions from its Information Management portfolio that integrate tightly with AVEVA's engineering, design and laser scanning applications to form the full Integrated Shipbuilding solution:

- [AVEVA NET™](#), a powerful and secure Information Management product family that enables the collation, contextualisation, validation and visualisation of all project and asset data and documents, irrespective of location or source program. This globally-accessible source of validated information provides the right information, at the right time, to those who need it, improving decision accuracy. In-built reporting enhances project control and streamlines information handover.
- [AVEVA Enterprise Resource Management™](#) (AVEVA ERM™), a suite of applications that support the complete planning, fabrication and production process for shipbuilding. AVEVA ERM helps to significantly streamline all shipyard work processes, improving efficiency in the manufacture of ships and other marine assets from the earliest stages of the project lifecycle.

'AVEVA's marine technology has been used in India for over 15 years. We will showcase the new and exciting developments at INMEX', said Evgeny Fedotov, Senior Vice President, Russia, India & Middle East, AVEVA. '90% of the world's ten largest shipbuilders rely on AVEVA for the most powerful and comprehensive solution set available. AVEVA technology is used in almost every sector of the shipbuilding and offshore industries, from the most massive bulk carriers and complex cruise ships, through advanced naval vessels, large FPSOs and semi-sub platforms, down to the smallest offshore support vessels. We look forward to meeting new and existing customers and associates at INMEX.'

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## ***Breakthroughs in Simulation & Optimization for Advanced Design & Engineering Take Center Stage at the 2013 Americas Altair Technology Conference***

2 October 2013

The annual [Altair Technology Conference](#) (ATC) is underway at the Hyatt Regency Orange County in Garden Grove, Calif. This is one of nine Altair [events held annually](#) throughout Europe, Asia, and South America. The series collectively draws thousands of professionals to share experiences and successes leveraging Altair simulation and optimization tools to innovate design and development processes. New additions to the conference include the [PBS Works™ User Group](#) and the Enterprise Solutions Track.

Keynote speakers headlining the 2013 ATC include:

- **Robert McIntosh**, Boeing Chief Engineer of Weight Engineering in the BCA Flight Sciences organization;

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- **Brian Cottrell**, Honeywell Aerospace Chief of Structures;
- **Dr. Jayaraman Sivakumar**, Senior Manager, Engine Structures Component Design and Analysis Department at GM Powertrain; and
- **Norihiko Sawa**, Group Manager for Toyota Japan.

Altair Chairman and CEO James Scapa will provide insight on how Altair's expansion into a variety of industry verticals is helping customers better solve the toughest challenges in both engineering and business. Product lifecycle management (PLM) technologies like [AcuSolve®](#) and [OptiStruct®](#), cloud-based simulation with [HyperWorks Unlimited™](#), high performance computing (HPC), and advanced business and engineering analytics will be highlighted. Additional Altair executives will take the stage to showcase the company's evolving software vision, including insight on its HPC and cloud strategies and how [solidThinking Inspire®](#) is radically changing the user experience in design.

"Our global technology conference series, and particularly the Americas ATC, provides a venue for Altair customers to showcase their domain expertise and demonstrate the ways Altair optimization and simulation technologies have encouraged advanced engineering and game-changing business decisions," said Scapa. "We are looking forward to the knowledge sharing, networking, and ideation that have become hallmarks of this annual event."

Throughout the conference, experts from a wide variety of industries will participate in workshops to present their insights on trends, lessons learned from addressing complex design and engineering challenges, and how simulation and optimization technologies – including Altair's flagship software suite [HyperWorks®](#) – are enabling innovative problem solving. Session topics include analysis and automation, design exploration, structural optimization, composites design, concept design, and design for manufacturability.

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## ***CADLearning to Participate in Autodesk University Brazil 2013***

3 October 2013

[CADLearning](#) will be onsite at AU Brazil, October 10, 2013 to offer certification prep materials and discuss their wide range of learning solutions for business, government and education.

Now in its third year, AU Brazil provides design and engineering professionals a fast way to upgrade their skills, learn about evolving trends, the newest technologies, and connect with valuable contacts. The expected 1,600+ attendees will be able to choose from over 50 classes taught by industry leaders. Over 280 certification exams will be taken that day and Autodesk experts will be on hand to connect with and provide information about the very latest innovations.

Rolando Aguilera, CADLearning business development lead for emerging markets, commented “the

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Brazilian market is growing fast, with growing infrastructure needs. Companies are looking to Autodesk to gain competitive advantages and meet customer demands. AU Brazil gives us an incredible opportunity to share our online learning solutions that we have tailored for this market.”

“We will be onsite offering our certification prep materials. We are hopeful that attendees will stop by our booth so that we can share our continuously growing library of learning materials. We want this market to leverage CADLearning for self-paced learning, ongoing resources and an on-demand help tools.”

AU Brazil will be held on October 10 at the World Trade Center in Sao Paulo. Full conference information is available online at <http://aubrasil.autodesk.com/>.

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## ***Delcam’s Complete CAD/CAM Range on Show across North America***

30 September 2013

Delcam will demonstrate its complete range of CAD/CAM software at five exhibitions across North America during October. The events should provide a further boost to the company’s sales in the region, which are already over 10% up on the year-to-date results for 2012.

The run of exhibitions starts in Canada, where Delcam will be in Mississauga, Ontario, for CMTS, the leading Canadian machine-tool show from 30th September to 3rd October. The following week sees the focus move to Wisconsin for the Wisconsin Manufacturing & Technology Show, being held from 8th to 10th October in West Allis, Milwaukee.

The second half of the month opens with WESTEC in Los Angeles from 15th to 17th October. The next week sees Delcam at the Wichita Industrial Trade Show in Kansas from 22nd to 24th October. The month closes with the SOUTHTEC exhibition in Greenville, South Carolina, from 29th to 31st October.

The main focus at all these events will be on the new Vortex strategy for high-speed area clearance in the 2014 releases of both Delcam’s PowerMILL and FeatureCAM CAM systems. Vortex, for which Delcam has a patent pending, has been developed by the company specifically to gain the maximum benefit from solid carbide tooling, in particular those designs that can give deeper cuts by using the full flute length as the cutting surface. It can be used for two- and three-axis roughing, three-plus-two-axis area clearance and for rest machining based on stock models or reference toolpaths.

The benefits of using the Vortex strategy will vary depending on a number of factors, including the material and shape being cut, and the machine tool and cutting tools being used. A series of trials run by Delcam on different machine tools within its Advanced Manufacturing Facility has shown that a time saving of at least 40% is not untypical, with the biggest percentage savings being found when cutting

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tool steel on a Huron machine with SGS Z-Carb MD cutters. The cycle time for the sample part was reduced from 121 minutes to 34 minutes, a reduction of 71%.

Other examples included a reduction of 67% when cutting a number of pockets in a stainless steel part, a 63% time saving on a titanium part and a 58% saving when cutting an aluminium component.

For Delcam's PartMaker CAM software the main development to be featured will be the new module for multi-axis machining. The new four- and five-axis simultaneous milling module, known as ASM-MX, or Advanced Surface Machining – Multi-Axis, applies across the entire PartMaker CAM suite, including the PartMaker Mill, Turn-Mill and SwissCAM modules. In addition to providing unique four- and five-axis simultaneous milling functionality, ASM-MX has also been priced cost effectively relative to other CAM systems on the market for high-end milling.

Additionally, PartMaker's ASM-MX module features a unique new machining strategy called "Spine Finishing." Spine finishing can be used in either four- or five-axis simultaneous operations and is ideal for machining parts with unique curves, such as angulated abutments found in the dental implant industry.

New functionality for the conversion of product designs into tooling designs will be shown in the 2014 release of Delcam's PowerSHAPE CAD software. The software now provides an even more powerful set of easy-to-use tools to increase productivity through increased automation and improved workflow.

By offering a combination of modelling and reverse engineering functionality, PowerSHAPE provides the most comprehensive range of design techniques available in a single CAD program. Having all the different technologies in the same package reduces the need to transfer data between multiple programs and so streamlines the whole product development process. At the same time, the combination of quick and easy direct modelling options, together with powerful and flexible surface modelling, makes PowerSHAPE the perfect choice for design for manufacture.

Another program that has seen significant development is the Delcam Electrode integrated solution for the design, machining and inspection of electrodes. The latest enhancements include support for burn-vector electrodes, automated machining of electrode frames, batch processing of multiple machining projects and faster generation of electrode drawings. Delcam Electrode also benefits from a number of options introduced into PowerSHAPE, which provides the CAD element of the overall solution.

Delcam Electrode combines functionality from PowerSHAPE, PowerMILL and the PowerINSPECT inspection software to give a completely integrated solution for the design, machining and inspection of electrodes. At the heart of the solution is a novel file format – the .Trode file. This contains all the information for each electrode project, including not only the electrode design but also the machining and inspection information, plus the set-up sheets for its manufacture and use. Having all the required information in a single file simplifies data management as well as increasing overall efficiency.

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## ***Delcam's latest Developments on show at Euromold***

1 October 2013

Delcam will highlight developments in four programs from its range of manufacturing software on stand H57 in Hall 8 at the Euromold exhibition to be held in Frankfurt, Germany, from 3rd to 6th December. The key technologies on show will be the new Vortex strategy for high-speed area clearance, the latest additions to the mill-turn functionality in FeatureCAM, On-Machine Verification with the PowerINSPECT inspection software and the 2014 release of the Delcam Electrode suite of software.

The new Vortex strategy is included in the 2014 releases of both Delcam's PowerMILL and FeatureCAM CAM systems. Vortex, for which Delcam has a patent pending, has been developed by the company specifically to gain the maximum benefit from solid carbide tooling, in particular those designs that can give deeper cuts by using the full flute length as the cutting surface. It can be used for two- and three-axis roughing, three-plus-two-axis area clearance and for rest machining based on stock models or reference toolpaths.

Unlike other high-speed roughing techniques that aim to maintain a constant theoretical metal-removal rate, the Vortex strategy produces toolpaths with a controlled engagement angle for the complete operation. This maintains the optimum cutting conditions for the toolpath that would normally be possible only for the straight-line moves. As a result, the cutting time will be shorter, while cutting will be undertaken at a more consistent volume-removal rate and feed rate, so protecting the cutter and the machine. A series of trials run by Delcam on different machine tools within its Advanced Manufacturing Facility has shown that a time saving of at least 40% is not untypical.

The 2014 version of FeatureCAM also includes a number of new options for turning, four-axis rotary machining and turn-mill operations. These include the ability to program and simulate the movements of the steady-rest that can be used to position large parts during turning and the tailstock that can be used to hold long parts on centre during machining, an option to add fillets to any sharp corners, for example, for automatic deburring, without having to edit the geometry, and a faster method to change the index axis part-way through programming.

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

On-Machine Verification with Delcam's PowerINSPECT inspection software allows initial checking of machined parts to be carried out in situ on a CNC machine tool rather than having to transfer them to coordinate measuring machines for inspection. The main advantage is that any mistakes are discovered where they can be corrected – on the machine tool. Repeated cycles of machining and inspection,

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interspersed with long set-up times on the respective pieces of equipment, are avoided, meaning that overall manufacturing times can be reduced.

On-machine verification can give huge time savings by enabling the quality of the component being machined to be monitored at all stages in the manufacturing process. This allows any errors to be detected earlier, and so corrected more quickly and at lower cost.

Another program that has seen significant development is the Delcam Electrode integrated solution for the design, machining and inspection of electrodes. The latest enhancements include support for burn-vector electrodes, automated machining of electrode frames, batch processing of multiple machining projects and faster generation of electrode drawings.

Delcam Electrode combines functionality from PowerSHAPE, PowerMILL and PowerINSPECT to give a completely integrated solution for the design, machining and inspection of electrodes. At the heart of the solution is a novel file format – the .Trode file. This contains all the information for each electrode project, including not only the electrode design but also the machining and inspection information, plus the set-up sheets for its manufacture and use. Having all the required information in a single file simplifies data management as well as increasing overall efficiency.

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## **Visit Optitex at the IFAI Expo Americas 2013**

2 October 2013

Optitex, a leading provider of 2D and 3D CAD/CAM and Virtual Prototyping software solutions, will be exhibiting at IFAI Expo Americas 2013, the largest specialty fabrics event in the Americas. The trade event will take place on October 23-25, 2013 at the Orange County Convention Center, <http://www.ifaexpo.com/>. Exhibits include the most innovative industrial fabrics, equipment, components, supplies and services for the industry; the event is expected to host thousands of attendees with more than 400 exhibitors.

## **Visit Optitex at booth 5633**

You will have the opportunity to discuss how your design and production process can benefit from Optitex's innovative solutions, and learn how their clients have been able to meet the demands of the market to increase production efficiency, save production costs and speed up time-to-market through the use of Optitex high end 2D and 3D CAD/CAM, and Virtual Prototyping software. Optitex will also be previewing a new product aimed at allowing communication of design changes between design and manufacturing teams in real time.

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## Financial News

### ***3D Systems Announces Conference Call and Webcast to Discuss Third Quarter and Nine Months 2013 Results***

3 October 2013

[3D Systems Corporation](#) announced today that it plans to hold a conference call and simultaneous webcast to discuss its financial results for the third quarter and first nine months of 2013 on Tuesday, October 29, 2013, at 9:00 a.m. Eastern Time. The company expects to release these financial results and to file its Form 10-Q on October 29, 2013.

Date: Tuesday, October 29, 2013

Time: 9:00 a.m. Eastern Time

Listen via Internet: [www.3dsystems.com/investor](http://www.3dsystems.com/investor)

Participate via telephone:

Within the U.S.: 1-800-706-7745

Outside the U.S.: 1-617-614-3472

Participant code: 86406937

The recorded webcast will be available beginning approximately two hours after the live presentation at [www.3dsystems.com/investor](http://www.3dsystems.com/investor).

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### ***Infor to Hold Investor Conference Call to Discuss Q1 Fiscal Year 2014***

2 October 2013

[Infor](#) today announced that it will host an investor conference call to discuss Q1 fiscal year 2014 results for current holders of Infor securities and other interested parties on Tuesday, October 8, at 11 a.m. Eastern time. Materials and dial-in details will be available at [www.infor.com/company/investor-information/](http://www.infor.com/company/investor-information/) after 8 a.m. Eastern time Tuesday, October 8.

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### ***Infosys to Announce Second Quarter Results***

3 October 2013

Infosys Limited will announce results for its second quarter ended September 30, 2013 on Friday, October 11, 2013, Indian Standard Time (IST) (on the night of Thursday, October 10, 2013, US Eastern

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Time (ET)). The results will also be available on the Infosys website <http://www.infosys.com>.

Following the release, Infosys CEO & Managing Director, Mr. S.D. Shibulal, CFO, Mr. Rajiv Bansal, and other members of the senior management will comment on the company's performance.

There will be a common television address by Mr. S.D. Shibulal and Mr. Rajiv Bansal at 10:00 a.m. IST on business television channels addressing analyst questions. The common TV address will be streamed live on the Investor Relations section of the Infosys website. This will be followed by a detailed discussion on CNBC from Bangalore at 10:15 a.m. IST on October 11, 2013 (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 October 11, 2013 (after 4:30 a.m. US ET on October 11, 2013).

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 October 11, 2013 (after 8:30 p.m. IST on October 11, 2013). A transcript of the conference call will be available at <http://www.infosys.com>.

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## ***Rand Worldwide Reports Fiscal Year 2013 Results***

30 September 2013

Rand Worldwide, Inc. announces its financial results for its year ended June 30, 2013.

For its fiscal year ended June 30, 2013, Rand Worldwide, Inc. reported total revenues of \$82.5 million, as compared with \$81.1 million for its prior fiscal year. The Company's overall gross margin was 50.5%, an increase over the 48.0% reported for fiscal 2012 due primarily to higher margins realized through its product sales.

During fiscal year 2013, the Company disposed of its operations in Singapore, Malaysia and Australia. As a result of these dispositions, the Company reported a loss from discontinued operations of \$241,000 and a loss on the sale of those operations of \$370,000, both of which were separately reflected in the consolidated statement of operations. As a result, Rand Worldwide, Inc. reported net income from continuing operations before income taxes of \$4.2 million for the years ended June 30, 2013 and 2012. In the prior fiscal year, the Company reported a \$4.3 million non-recurring reduction of income tax expense resulting from the recognition of a portion of the value of the Company's net operating loss carryforwards that are available to offset future income taxes and there was no such adjustment this year. Thus, for the current fiscal year, the Company reported net income from continuing operations available to common stockholders of \$2.4 million, or \$0.03 per fully diluted share, as compared with \$8.1 million, or \$0.15 per fully diluted share in the prior year.

Marc Dulude, chief executive officer, commented, "The closures of our foreign operations will allow us

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to focus our resources on strengthening our presence in North America where we have seen better profitability and where we have the largest market presence. We are particularly pleased that we were able to grow our Service revenue 14% over the prior fiscal year and we will continue to exploit the depth and breadth of our technical experience to continue this growth. In addition, our non- Autodesk businesses all saw good revenue growth with our ASCENT division leading the way with 17% year over year growth and our Enterprise Applications division growing 15.5%.”

To view an unabridged version of this press release, visit: <http://rand.com/news-events/press-releases/2013/rand-worldwide-reports-fiscal-year-2013-results>

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## Implementation Investments

### ***Aeronamic Selects Aras PLM and Minerva as Implementation Partner for Precision Manufacturing***

2 October 2013

Aras® today announced that Aeronamic, a global provider of complex sub-systems for the aerospace industry, headquartered in The Netherlands, has selected Aras PLM for precision manufacturing management. Aeronamic’s implementation of Aras includes all of the information required to manufacture a part, including new product introduction, APQP, CAPA, FMEA and control plans, documentation and project management, in a single system.

Key drivers in Aeronamic’s selection were speed of implementation, breadth of functionality and cost effectiveness. “Aras provided more functionality at less than 50% of the cost of another leading PLM system,” explained Steffen de Vries, CEO at Aeronamic. “Minerva demonstrated how Aras supports APQP and FMEA. Other PLM companies couldn’t demonstrate how they would do that,” said Steffen De Vries. “With Aras and Minerva, our team could see how the solution mapped to our business challenges.”

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### ***Entry Level Radan Doubles Ageing Nisshinbo Production***

30 September 2013

The entry level of the powerful sheetmetal CAD/CAM software, Radan, has doubled production on an ageing Nisshinbo punch press, proving to be a smart investment for a company manufacturing a range of commercial and industrial heating and air conditioning systems.

During the first year of Air Source Ventilation being formed they used a commercial software brand

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inherited with their 25-year-old Nisshinbo MTP 1000F, but found all aspects of it to be too slow. “Every tool had to be placed manually on the part,” says Engineering Director Andy Pinchbeck. “We had to select which tool we wanted to use, and tell the software which line we wanted it to go on, then crop the end short so that it tagged the part. That had to be done manually for every single line.

“And it was manual nesting as well. The machine was probably designed for repeat sheets to be run off hundreds of times, so was very cumbersome for the constantly changing nests needed for our three or four-offs. Even with the software package we were using, it was a huge workload getting it ready to start punching.”

And their software issues didn't end when punching started. “The software sequenced punches in such a way that it threw up a program error on around one in ten sheets which had to be fixed or recovered, taking up to half an hour every time. The only way round it was to manually sequence each sheet, selecting which punch to do, and in what order. It was taking far too much time.”

As they approached their first anniversary, the company was growing and the number of parts they were manufacturing was increasing, so they needed to considerably reduce machine downtime. Rather than invest in a new machine, they opted to upgrade the software with Radan's entry-level system, Genesis. This gave them traditional Radan CAM functionality and ease of implementation, swiftly resolving their production problems.

“Machine set-up, tooling lists, nest graphics, part identification and machine program are all automatically produced directly from the nest schedule,” says Andy Pinchbeck. “From the outset I thought we'd have to be buying newer machines by now, to be where we are today, but two years after installing Radan we've still not had to upgrade to expensive machinery.”

Operating with 25 employees out of 13,000 square foot premises near Manchester, Air Source Ventilation includes call centres, health centres, offices and council departments amongst the customers for its mainly roof-based systems comprising renewable energy heat pumps, ventilation equipment and heat recovery units.

All sheetmetal components such as double-skinned panels which provide the casework for the equipment, heavy duty steel base frames, internal blanking and structural parts, control panel back plates, enclosures and roofs, are now produced through Radan Genesis. The number of sheets going through the Nisshinbo has doubled and machine down time through problems, is non-existent.

“The machine now runs for 13 hours a day, and it's no longer a full-time job for someone to be sitting at the computer getting the job tooled and nested.”

The Nisshinbo's limited memory means it cannot hold large programs, but Genesis overcomes this by creating a number of sub routines. “We use sheets up to three metres for some jobs, which can often contain 20 or 30 different complex parts, so the programs can be particularly large. And where there are

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just too many dissimilar parts even for sub routines to handle, it's so easy with Genesis to split the job into a few different programs and send them to the machine in three or four sections."

There were a couple of unexpected bonuses along the way, as well, which have improved productivity even further. Because all parts are labelled, the punch operator was manually typing out 15,000 labels over a six month period. "It was taking longer to produce the labels for a job than it was to punch the sheets." Andy Pinchbeck mentioned that to Radan's area manager who organised a bespoke macro, automatically producing the labels directly from information on the nester. Their second macro was for sheet slitting, which has now been included in the main release.

"This demonstrates how Radan listens to what customers want their system to do, create that bespoke functionality for them, and then if it will be useful for everyone it becomes a standard feature."

He says that overall, Radan Genesis is one of the key factors contributing to their success. "As a start-up company three years ago we needed to keep the initial outlay to an absolute minimum, and we couldn't have got the punch output to where it is today without Radan Genesis. So for us it's been a smart investment by increasing our output without the need for additional expensive hardware, and it's enabled us to concentrate on growing the business because we don't have to spend our time just producing the parts."

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## ***Legendary Whitetails Selects NGC for PLM, Supply Chain Management and Raw Materials Management***

1 October 2013

NGC Software today announced that Legendary Whitetails, a casual hunting gear and lifestyle apparel marketer, has selected NGC's PLM, Supply Chain Management (SCM) and Raw Materials Management software. Legendary Whitetails designs, develops and contracts the production of exclusive apparel, gifts and gear to market to hunters and their families.

Prior to selecting NGC's software, Legendary Whitetails used a multitude of spreadsheets and databases to manage its development processes, causing delays in its supply chain and lengthening its time to market. "We were shortcutting processes to make delivery dates and in many cases even compromising quality," said Tom Johnson, EVP and General Manager of Legendary Whitetails. "With our aggressive growth and new product development schedule we recognized that a PLM solution would have a huge impact on our workflow and processes."

Legendary Whitetails expects a number of key benefits from NGC's software, including:

***Improved workflow management.*** NGC's workflow calendars allow users to view the status of milestone dates and ensure that product groups, collections and approvals are on schedule. Customizable alerts can predict if items will run late due to unexpected delays. "In the catalog business, delivery dates

# CIMdata PLM Industry Summary

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are imperative to successful campaigns, and back orders or missed sales are very hard to recover from,” said Johnson. “NGC’S PLM and Supply Chain management software will hold us to these important deadlines.”

**Reduced time to market.** By utilizing workflow management features and streamlining overall efficiency, NGC’S [fashion PLM](#) and SCM solution allows for a faster speed to market. “We expect to greatly reduce our time to market for new products,” said Johnson. “A more efficient and effective development process will also enable Legendary Whitetails to improve product quality.”

**Centralized and collaborative access to data.** Global collaboration and communications productivity tools within the PLM software will help reduce costly returns and save time during the sampling and fit process with Legendary Whitetails’ vendors. These features reduce the amount of emails throughout the extended enterprise; every communication is easily recalled in order to quickly resolve issues in the development process.

**Advanced raw materials management.** NGC’S Raw Materials Management feature allows users to request materials from a variety of suppliers, manage sampling and approvals to ensure proper production planning, and position raw materials for greater supply chain efficiency. According to Johnson, “Managing our raw materials with a centralized system that can control inventory will greatly reduce our time to market and increase accuracy for better control.”

Legendary Whitetails chose NGC Software for its deep understanding of the apparel industry. “We felt NGC offered the most well rounded software to meet the requirements that were important to a successful PLM solution,” said Johnson, regarding Legendary Whitetails’ decision to select NGC as its PLM and SCM solution provider. “The ability of NGC’s software to handle all of the necessary workflows and details in the development process surpassed all the other solutions we investigated.”

“Legendary Whitetails is an American success story—a family owned business that has grown exponentially, with an exceptionally loyal customer base,” said Mark Burstein, president of sales, marketing and R&D, NGC Software. “Our solutions will help Legendary Whitetails manage its growth more effectively and deliver the highest quality products to its customers. NGC is proud to be working with them.”

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## ***PVH Europe Chooses Centric Software for Product Lifecycle Management***

1 October 2013

PVH Europe has selected Centric Software, Inc., to provide the product lifecycle management (PLM) solution for all Tommy Hilfiger Europe product divisions after an extensive evaluation of PLM solutions.

## CIMdata PLM Industry Summary

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The company will implement the full Centric 8 PLM software suite and mobile apps across all Tommy Hilfiger Europe brands, categories and lines. The company also plans to use the Centric solution for its Calvin Klein Europe brands. Up to 1,000 internal and external product development users will work with the solution.

“The Centric PLM software is an excellent fit for Tommy Hilfiger Europe,” says Arne Tjalma, vice president of information technology at PVH Europe. “Designed specifically for the apparel industry, Centric 8 provides a scalable, web-based enterprise solution—combined with a visionary mobile strategy—to meet the needs of Tommy Hilfiger Europe and those of Calvin Klein Europe,” he adds.

Expected benefits include global cross-brand collaboration throughout the design and development cycle and improved visibility for management decision making, according to Tjalma. “Centric PLM will also enable many opportunities for improved efficiencies and speed-to-market,” he says.

Centric 8’s ease of use fosters end-user adoption, and the software will help the company gain in-depth visibility of product development and lifecycles for the large collection of products that are sold around the globe, says Tjalma. “Centric has a PLM strategy and vision to meet our future requirements.”

Tommy Hilfiger Europe valued the configurable, out-of-the-box characteristics of the Centric 8 software, which incorporates industry business best practices and business models into the core PLM solution. Centric will use its Agile Deployment<sup>SM</sup> implementation methodology to deploy the PLM solution at Tommy Hilfiger Europe. Leveraging the principles of agile software development, Agile Deployment<sup>SM</sup> enables faster implementations than other PLM systems. “The Centric 8 capability that allows business users to change part of the configuration of the product without heavily involving IT is valuable to us because it improves both software implementation time and user adoption,” says Tjalma.

“Centric 8’s ability to manage multiple brands, categories and product lines—combined with Centric’s broad portfolio of mobile apps—will help the Tommy Hilfiger Europe and Calvin Klein Europe product development teams make great productivity gains, and leverage capabilities across teams,” says Chris Groves, president and CEO of Centric. “Our companies’ shared strategic vision, and plan to partner on further development of mobile apps and digital technologies for PLM, is an exciting element of the partnership.”

Tommy Hilfiger Europe lines include: sportswear for men, women and children; footwear; athletic apparel; bodywear; handbags; men's tailored clothing; men's dress furnishings; accessories and small leather goods; and luggage. The Hilfiger Denim product line consists of jeanswear and footwear for men and women; bags; and accessories.

Calvin Klein Europe product lines include women’s wear, men’s wear, shoes and accessories across the Calvin Klein Collection, Calvin Klein Platinum, and Calvin Klein Jeans brands.

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## ***Rand Secure Archive Releases North American Survey Results on Data Governance***

2 October 2013

[Rand Worldwide](#) announced the results from its [Rand Secure Archive](#) (RandSA) division's 2013 Rand Secure Archive Data Governance Survey.

With average volumes for electronically stored data expected to increase in the next year between 26 and 50 percent, respondents from a wide range of industries across the United States and Canada clearly articulated the need for a formal approach to data governance within their organizations. In fact, 82 percent of respondents know they face external regulatory requirements, but 44 percent of respondents still don't have a defined data governance policy.

“We conducted this survey because we wanted to understand the maturity of the market when it comes to defining data governance strategies and adopting solutions that ensure compliance,” says Chris Grossman, senior vice president of enterprise applications at Rand Worldwide. “In analyzing the results, it's encouraging to see that organizations are budgeting and putting IT initiatives in place to help them manage, save and access their electronically stored data, essentially data governance is no longer a ‘nice to have’ but rather a ‘need to have.’ This is a drastic shift from just 12 months ago when companies investing in this space would have been seen as early adopters. However, within the next 12 months, if companies are not investing in this space they'll be seen as laggards.”

The overwhelming message from the survey is that organizations across North America are realizing the importance of data governance. And while they may not have advanced data governance solutions today, they have pre-determined annual budgets of between \$200,000 and \$500,000 to implement their data governance solutions. For the first time, a data governance survey has uncovered the monetary value that companies are placing on implementing a data governance policy. This new figure provides a benchmark for companies considering implementing a data governance solution.

The 2013 Rand Secure Archive Data Governance Survey Results free whitepaper which provides the complete survey findings can be downloaded at [www.randrsa.com/resources/whitepapers-reports](http://www.randrsa.com/resources/whitepapers-reports).

### **Four key insights and their business implications**

- 82 percent of respondents, both publicly traded and private companies, know they face external regulatory requirements, yet 44 percent of respondents don't have any data governance policy. This indicates companies know they need to do more, but aren't sure how to do so.
- Within the next year, almost 50 percent of those surveyed said they would be taking some sort of action on data governance, either an implementation or discussions about doing so. This indicates a shift in corporate thinking from simply being an emerging issue to a mainstream requirement.
- Two integral components of data governance are data archiving and backup. Although 98

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percent of organizations have implemented a data backup solution, a resounding 75 percent of these organizations are not satisfied with their current solution. Only 11 percent of respondents indicated they were extremely satisfied with their current archiving solution. These statistics indicate a clear need for new, innovative and user friendly data governance technologies.

- More than 50 percent of those surveyed plan to implement an eDiscovery solution or upgrade their existing solution in the coming year. Surprisingly however, one-third of respondents had never heard of ‘predictive coding’ — the fastest growing eDiscovery technology. With the ability to dramatically streamline data extraction, the survey findings show that predictive coding is currently in the emerging phase, but its adoption is expected to significantly grow in the coming months.

## Methodology

The 2013 Rand Secure Archive Data Governance Survey was conducted online between August 13, 2013 and August 26, 2013. In total, 454 organizations across more than 11 industries participated in the survey. Industries included architecture, engineering and construction (AEC), finance and insurance, government, healthcare, IT services, legal, oil and gas, and manufacturing. Sixty percent of organizations surveyed had annual revenues of less than \$100,000,000 and 67 percent had fewer than 5,000 employees. For the full methodology and the complete survey findings download the free 2013 Rand Secure Archive Data Governance Survey Results whitepaper at [www.randasa.com/resources/whitepapers-reports](http://www.randasa.com/resources/whitepapers-reports).

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## Product News

### ***Adams/Machinery Simulation Solution Continues its Market Momentum by Reducing Modeling Time by up to 80%***

2 October 2013

[MSC Software Corporation](#) today announced the new release of [Adams/Machinery 2013.2](#). [Adams/Machinery](#) is a customized analysis software package that is fully incorporated in the [Adams/View](#) environment and specifically focused on machine design. It allows users to quickly build functional virtual prototypes from common machinery components such as Gears, Bearings, Pulley-Belts, Sprocket-Chains, Cables, and Motors; and to predict system dynamic responses.

The new release takes [Adams](#) to the next level for machinery design and simulation. Adams/Machinery 2013.2 provides a robust virtual prototyping solution for machinery design with a comprehensive suite of machine component libraries including chains, gears, belts, bearings, cables, a new electric motor module, plus improved ease of use for engineers. Adams/Machinery is developed for engineers working in industries such as Industrial Machinery, Heavy Industry, Automotive, Aerospace and other equipment markets.

Engineers can use Adams/Machinery to optimize existing designs or to predict system performance of

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new designs. The modeling time for machine components and systems has been significantly reduced for engineers (up to 80%) through built-in wizards and automation of dozens of element types and part connections that in the past had to be hand scripted by specialists.

The new modules and features available in Adams/Machinery 2013.2 include:

- **Belt:** predict load history, analyze belt slippage, study the effect of belt compliance, and avoid power transmission failure. A new 3D belt method for non-planar pulley-belt simulation is now available.
- **Chain:** analyze vibration due to preloads, predict load history of sprockets, and avoid tensile failure. A new 3D chain method for non-planar sprocket-chain simulation is now available. The latest release has added a new discretized 3D method supporting roller chains.
- **Gear:** study the effect of backlash, predict contact force between gear pairs, study gear friction, and mitigate gear rattle. In addition to the current spur, helical, and bevel gears, three new gear types are now supported in the latest release including worm, rack and pinion, and hypoid gears.
- **Bearing:** predict bearing loads, study the effect of changing bearing parameters, and predict bearing service life
- **Cable:** calculate cable tension, assess load history on pulleys, analyze potential for cable slippage, and predict winching effects
- **Electric Motor:** a new electric motor module has now been added to calculate motor sizing, predict impact of motor torque on system, achieve precise position control, and more

In addition to the new features described above there have also been more general enhancements to Adams/Machinery. These enhancements largely focus on increased modeling flexibility and expanded support for parametric studies.

One of the key benefits of Adams/Machinery is that it can be used before CAD and embedded kinematic analysis tools to give users an accurate assessment of system level dynamic responses. With Adams/Machinery, you get modeling automation specific to machinery component types, providing early insight into design performance. The wizard-driven modeling environment means that Machinery models can be created prior to CAD information being available. Adams/Machinery drives and complements your CAD solution by giving you a high fidelity customized solution for solving component specific problems in the context of full system-level dynamics simulations. It is highly valuable to use before and after CAD to predict mechanical problems that lead to product failure and high warranty costs.

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***ADX and Autodesk Form Partnership to Integrate Digital Design and Fabrication***

2 October 2013

## CIMdata PLM Industry Summary

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Innovative design requires many different tools - some traditional and others more modern. [Autodesk](#) has partnered with Portland-based design and manufacturing facility [ADX](#) to create a new space called The Bridge. This new space, housed at ADX, will bring together digital and analog fabrication and will be unveiled as a part of Design Week Portland on October 11, 2013.

The newest addition to the ADX shop, The Bridge is a place where minds meet to design, prototype, and produce together with all of the necessary tools readily accessible. The space will host four industry grade computers running the latest 2D, 3D, and Cloud-based design software for Digital Prototyping, as well as two [Makerbot 3D printers](#) to allow for early prototype visualization. Also making their debut at The Bridge opening are four [Leap Motion controllers](#). These controllers are attached to each computer and will allow users to design in 3D with nothing but hand gestures.

“The Bridge will be home to some of the most accessible software, 3D printing and laser cutting services in Portland, which is in addition to the already solidified wood and metal craft taking place throughout ADX,” said Mike Geyer, senior manager of the Manufacturing 2020 group at Autodesk. “Autodesk is excited to extend our reach into the Portland community by partnering with ADX to provide Digital Prototyping tools to the shop’s inventive and tight-knit community.”

“The Bridge is a place where the tech world can start interacting more intentionally with the world of fabrication and manufacturing,” says ADX Director, Kelley Roy. “We are thrilled to welcome Autodesk and The Bridge to our space and can’t wait to see what the community will do with the new technology available to them.”

The opening of The Bridge will take place during Design Week Portland on October 11, 2013 from 4-7pm at ADX 417 SE 11th Avenue, Portland, Oregon 97214.

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### ***Altair Introduces HyperWorks Virtual Wind Tunnel for Faster, More Accurate External Aerodynamics Simulation***

3 October 2013

[Altair](#) today introduced [HyperWorks Virtual Wind Tunnel™](#), a streamlined and high quality vertical application designed to improve wind tunnel simulation for the automotive industry. The announcement was made during the company's annual [Americas Altair Technology Conference](#), being held in Garden Grove, Calif.

Leveraging several of Altair's technologies from advanced meshing to high-fidelity computational fluid dynamics simulation, and designed with an intuitive, highly automated and streamlined workflow and user interface, HyperWorks Virtual Wind Tunnel brings new levels of accuracy and speed in predicting a vehicle's external aerodynamic performance.

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External aerodynamic simulation plays an important role in modern automotive design. The vehicle's fuel consumption, stability, engine cooling, interior cabin noise and windshield-wiper performance all are influenced by aerodynamic forces. Wind tunnel simulations employing computational fluid dynamics (CFD) allow engineers to study these aerodynamic loads and can reduce the number of physical wind tunnel test experiments required during a vehicle's development process.

"HyperWorks Virtual Wind Tunnel benchmarking tests demonstrate that Altair's technology correlates exceptionally well with actual wind tunnel results," said Altair Vice President of CFD Technology Dr. Farzin Shakib. "We anticipate that the ease, flexibility, accuracy and speed of HyperWorks Virtual Wind Tunnel will make it very popular not only across the auto industry but also in other fields where external aerodynamic simulation is crucial, such as architectural design and construction and wind-turbine development."

Central to the solution is [AcuSolve®](#), Altair's CFD solver that is highly differentiated by its speed, scalability, robustness and accuracy. AcuSolve's advanced turbulence modeling technology enables HyperWorks Virtual Wind Tunnel to predict the flow field and flow separation using steady-state and transient simulation for faster and more accurate results. The best-in-class fluid-structure interaction solution from AcuSolve allows more realistic and comprehensive automotive virtual wind tunnel simulation by considering the flexibility of structures.

"We prefer to use AcuSolve for external aerodynamics. More specifically, we find it is easier with AcuSolve to achieve high accuracy results for drag measurement in external aerodynamics simulations," said Genevieve Dutil, President of the engineering simulation and consulting firm [Lx Sim](#).

Another advantage of HyperWorks Virtual Wind Tunnel is its advanced meshing capabilities. Built on a powerful meshing technology, HyperWorks Virtual Wind Tunnel comes with a fast, fully-automated unstructured mesher with boundary layers. Volume meshing for an external automotive aerodynamics analysis—including the underbody, underhood compartment and boundary layers—can be completed in less than two hours. The CFD solver at the core of HyperWorks Virtual Wind Tunnel is highly tolerant of element qualities, with the ability to manage badly distorted elements unavoidable for complex geometries. The solver's flexibility eliminates the time-intensive mesh optimization step often required with other solutions, dramatically reducing meshing time.

HyperWorks Virtual Wind Tunnel provides a friendly, intuitive user environment and a highly automated setup process. The simulation can be submitted easily to high-performance computing systems from within the HyperWorks Virtual Wind Tunnel environment.

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***Automatic Machining Enhancements in WorkNC Dental V4***

3 October 2013

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The new version of WorkNC Dental provides a wide range of innovative automatic machining functions for dental prosthesis, whatever the process.

This latest release of the dental solution creates increasingly efficient and reliable toolpaths. For example, the addition of new morphing strategies and spiral transitions produces finishing toolpaths where the cutter is permanently in contact with surfaces, giving a perfect surface finish while reducing machining times.

WorkNC Dental V4 also includes new automatic cavity recognition for fully automatic machining on both 3+2 and 5-axis machines, through the faultless detection of concurrent or diverging insertion axes. This new functionality provides optimal use of 3+2 machines which do not have simultaneous 5-axis capabilities. Also, preparation times are significantly reduced as the interactive management of undercut machining routines is no longer required.

Another step forward in automatic machining processes: machine characteristics and kinematics are now taken into account before calculations are run. This means users are immediately aware of any feasibility issues, managing project preparation in real time.

Complex cavities can now be analysed through a precise display of existing undercut areas on elements to be machined, which also takes into account zones that are inaccessible for machining.

And users can now freely define machining extremity curves, improving access for machining strategic areas of complex prosthesis. Depending on machine kinematics when using the 5-axis simultaneous remachining toolpath on undercuts, this function allows remachining angulation to be increased, improving toolpath performance.

Numerous enhancements have been made to the dental implant module, including the library now featuring generic connectors which are compatible with the leading brands of implants, and interactive 3D repositioning of prosthesis connectors. Also, manual detection algorithms have been optimised to ensure improved recognition and reconstruction of STL models.

The software now includes converters for all common native dental CAD files, allowing Cerec<sup>®</sup>, Procera<sup>®</sup>, 3Shape<sup>®</sup> and Cercon<sup>®</sup> files to be imported directly, as well as IGES format.

Finally, a number of new features and enhancements simplify and automate how WorkNC Dental is used:

- Improved sintering supports for large bridges
- Machining axis display
- Multiple prosthesis offset extensions
- Communications plug-in for automatic ISO file processing on the machine controller

# CIMdata PLM Industry Summary

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- Automatic generation of job related technical documents
- Automatic support pin addition and one-click interactive insertion
- Compatible mouse configuration with all major dental CAD systems.

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## ***BobCAD-CAM CNC Software Provider Releases New CAD-CAM Technology***

4 October 2013

Computer Aided Design & Manufacturing software BobCAD-CAM, Inc announces the release of their all new [Version 26 Core CAD-CAM](#) software for CNC Milling. The new milling release combines existing 2D and 3D machining technology with Dynamic Machining Strategies / DMS Technology (SM) that streamline how CAM programming takes place by allowing the programmer to utilize as many machining strategies as needed within a job operation in the CAM Tree Manager. Advanced Tool Patterns have also been added to fully customize each machining operation. Traditionally, CNC Software allows the operator to load machining strategies into a CAM Tree one at a time to program a job. This method can lead to repeated geometry selection and time consuming editing tasks. The new DMS (SM) eliminates having to load cutting strategies separately into a CAM Tree one at a time. Thus, streamlining the entire CAM programming workflow and speeding up the programming process dramatically. The Dynamic Machining Strategies have been added to the systems Wizards for programming. Wizards remove the guesswork and allow a new user to complete their jobs without unnecessary learning curves while still providing all the control that advanced users love. Other important features added are a new Job Setup Wizard for defining what type of job is taking place, customizable Job Setup Sheets that can be generated and handed off to the CNC department or programmer, Multi-Depth cutting enhancements for engraving, additional tools added to the profiling feature, a simplified CAM Tree, and many other features that affect general functionality and post processing. For example, the new posting enhancements include being able to post out programs by tool, by feature, or by operation. These posting enhancements were implemented in direct response to customer requests.

"The new Dynamic Machining Strategies really fit the purpose of CAM software now because they make programming so much faster, smarter and easier," commented Greg Myers, who heads up the [BobCAD-CAM](#) development team. The new release also includes enhanced thread milling operations supporting multiple holes and customizable starting points for multiple finishing passes. The advanced tool patterns allow the programmer to take existing machining operations or strategies and add toolpath types within them. "This level of customization continues to streamline how users program with CAM", added Myers.

A great new v26 software feature is that Job Setup Sheets can be automatically generated. This allows the programmer to create a complete summary of the job data and all tools for machining personnel. "This new release accommodates existing customers with new features that they've been asking for and really sets up new users with a product that they won't have to spend much time learning, largely in part to these new Wizards, as they really remove the guesswork," continued Myers. BobCAD-CAM [Version](#)

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[26 CAD/CAM](#) is also for programming CNC Routers, WaterJets, Lasers, Burning and Plasma machines for 2 through 5 axis CNC machining. Additional CAD-CAM modules include software products for artistic manufacturing, nesting and sheet optimizing as well as machine simulation.

BobCAD-CAM has provided [CAD/CAM CNC software](#) products to the global manufacturing industry for over 25 years. BobCAD-CAM's powerful yet affordable software is used to increase CNC productivity for many applications including educational and hobby use. BobCAD-CAM also provides a variety of quality training and technical support solutions to their customers.

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## ***CAD MicroSolutions Partners with Altium to Provide Electronics Design Software, Support & Training***

30 September 2013

[CAD MicroSolutions](#), an engineering and design solution provider, has partnered with [Altium](#), an [electronics design software](#) company, to offer additional options for the design and manufacturing industry expanding into the electronic design automation (EDA) market. Altium's product line and services fit well as an addition to CAD MicroSolutions existing line of design tools including SolidWorks, DriveWorks, Boxx & Dell hardware and others.

Altium products are built to foster design innovation while accelerating time to market and intelligently span the domains of PCB implementation, FPGA design, embedded software development and design data management. The solutions include ECAD/MCAD 3D integration; instant FPGA prototyping, flexible design reuse and robust ECO handling - competitive requirements in today's systems based design for products with integrated electronics.

"CAD MicroSolutions is excited to add Altium to the suite of technologies that help our clients increase their competitiveness and ability to innovate" said Darren Gornall, President of CAD MicroSolutions. "Many of our 2,000+ clients have been asking us to help them streamline their mechanical and electronic design with full bidirectional integration. We see our ability to train and support these clients as an opportunity to increase the value we deliver."

CAD MicroSolutions will offer the full suite of Altium products and will be hosting events, webinars and demos across Canada starting immediately. These events will include showcasing the Altium products along with SolidWorks Electrical, Simulation, Composer and many more CAD MicroSolutions offerings. CAD MicroSolutions will show their GTA clients how they integrate Mechanical and Electrical Engineering at their 2014 Launch Event on Oct 25<sup>th</sup>, 2013." [2014 Launch Event](#)

"We have had a SolidWorks Subscription Support contract with CAD MicroSolutions for a number of years now, and have seen their passion for customer service and training CAD users first hand. Now that CAD MicroSolutions is authorized for Altium, we look forward to having the opportunity to have a

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single vendor supply us with training and support for the best-in-class Mechanical and the best-in-class Electronic CAD software." said Murray Van Wieringen, President, Durobyte Inc. [www.durobyte.com](http://www.durobyte.com)

"With the addition of CAD MicroSolutions, Altium extended its commitment to create the largest network of resellers in the EDA industry. With this alignment, we are able to fulfill the customer's needs by being able to provide more training locations, more support options and overall greater value. Whether the need is technical support, training or customer service, our large network spanning the Americas, is able to cater to the more specific needs of our customers" said Scott Anderson Channel Sales Director, Americas.

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## ***CD-adapco Selects Siemens' D-Cubed Software***

1 October 2013

CD-adapco has licensed Siemens' D-Cubed™ software to be used in their STAR-CCM+ products. CD-adapco selected D-Cubed 2D DCM (Dimensional Constraint Manager) to provide the geometric constraint solving capability that is fundamental to many modern computer-aided design, manufacturing and engineering (CAD/CAM/CAE) software applications. CD-adapco will deploy 2D DCM to replace their current commercial geometric constraint solver. D-Cubed components are developed by Siemens' product lifecycle management (PLM) software business unit.

"CD-adapco is focused on providing our customers with a powerful integrated modeling capability," said Jean-Claude Ercolanelli, Senior Vice President Product Management, CD-adapco. "When we decided to enhance our parametric sketcher, we turned to Siemens, the industry's most open and trusted supplier, to provide a new geometric constraint solving engine to support this important objective. We found that D-Cubed 2D DCM offers improved functionality, performance and quality. Leading component software technology combined with Siemens' stability and service excellence made this the right decision for CD-adapco and our customers."

"The fact that a leading CFD software provider like CD-adapco is extending their commitment to Siemens and replacing their existing constraint solver with our D-Cubed 2D DCM is a strong endorsement of Siemens' technical leadership," said Paul Sicking, senior vice president, Chief Technology Office, Siemens PLM Software. "Siemens is committed to providing open software components that allow software providers to enhance their solutions for design, engineering and manufacturing."

For more information about Siemens' PLM Component software solutions, please visit [www.siemens.com/plm/open](http://www.siemens.com/plm/open).

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## ***GibbsCAM Simplifies Machining Turbomachinery Components***

4 October 2013

Gibbs and Associates today announced availability of two new options for GibbsCAM specifically developed to simplify the 5-axis programming required to make turbomachinery parts. The new options have user interfaces that are optimized for fast selection of geometry and toolpath parameters to program machining of impellers, blisks (bladed disks) and blings (bladed rings). These bladed parts, which are used in compressing gas and liquids, or transporting them under pressurized flow, are common components in the aerospace, automotive and power generation industries.

Each of the two new software options targets different levels of specialization and part complexity in bladed-part manufacturing. While 5-Axis MultiBlade Level 1 is designed for parts of simpler to moderate complexity, 5-Axis MultiBlade Level 2 increases the selectable toolpath options to accommodate the most complex bladed parts, which may have multiple smaller blades (known as splitters and sub-splitters) between the main blades. The GibbsCAM 5-Axis MultiBlade options operate within the GibbsCAM 5-Axis software, accommodate both 5-axis machining centers and multi-task machines, and are available immediately.

### **Features of GibbsCAM 5-Axis MultiBlade Level 1**

When added to GibbsCAM 5-Axis, MultiBlade Level 1 simplifies programming and machining of blisks, blings and impellers having single splitters or no splitters. Toolpath strategies include 5-axis simultaneous roughing, hub finishing, and blade and splitter finishing, with automatic gouge checking on all toolpaths. The interface includes options for leading- and trailing-edge extension and control, plus intelligent controls for rotating toolpaths around the part.

- Roughing between blades with splitter support
- Blade, splitter and hub finishing
- Leading- and trailing-edge extension and control
- Tool axis tilt controls
- Toolpath axis rotations
- Automatic axis detection
- Automatic and user definable links and clearances

### **Incremental Features of GibbsCAM 5-Axis MultiBlade Level 2**

When added to Level 1, MultiBlade Level 2 provides incremental capabilities to simplify programming and machining of parts that have multiple splitters and/or sub-splitters. It adds a fillet machining strategy and provides additional control for all toolpath strategies.

- Blade fillet finishing
- Tool axis smoothing

- Splitter smoothing
- Multiple splitter support
- More control for tilt, leading & trailing edges, and all toolpath strategies
- Toolpath segment sorting
- Stock definition for rest machining

In addition to simplifying and speeding up the programming process, the GibbsCAM 5-Axis MultiBlade options generate cleaner, more efficient toolpaths for faster machining, better surface finish, and higher quality parts.

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## ***IMSI/Design Releases TurboCAD LTE V6 Line-Up***

1 October 2013

IMSI/Design announced today that TurboCAD LTE and LTE Pro v6 are now shipping.

The LTE products are AutoCAD LT® work-alike that also contain many additional, innovative features such as self-healing walls, self-aligning blocks, transparent fills, draw order by layer, snap prioritization, smart dimensions, and an optimized drawing engine that takes advantage of GPU-based graphics cards.

Earlier this year, TurboCAD LTE was named a Top 5 CAD product of 2013 for small to mid-sized businesses and hobbyists by product review website TopTenReviews.com.

TurboCAD LTE and LTE Pro v6 include many new features and enhancements, including:

### **New Power Tools and Faster Performance**

- Updated RedSDK® v3 Rendering Engine makes key operations *10x faster!*
- New Entity Marks to better track objects and add information (Pro only)
- New Stellated Polygon Tool quickly creates star-shaped polygon objects (Pro only)
- New Gear Contour Tool creates and aligns gear shaped objects (Pro only)
- New Associative Arrays create parametric patterns (Pro only)

### **New Features for Greater Usability**

- Improved Associative Viewport Dimensions simplifies updates
- New Export Coordinate Data from the geometry in drawings (Pro only)
- New Print Window to quickly print just what you want
- New Super Selector Modes for faster, easier modification of your drawing
- New Drafting Object Reference Point to manually redefine reference points (Pro only)
- New Customer Feedback System

## **New Filters for Superior Compatibility**

- New 3D PDF and U3D filters to export to PDF for interactive viewing (Pro only)
- New/Improved Collada (DAE) to drag-n-drop files into Google® Earth
- Improved AutoCAD 2013 (DWG) maximizes workflow with AutoCAD®

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## ***NTT Data Joins the Aras Partner Program***

3 October 2013

Aras® today announced that NTT Data, a premier global systems integration and networking system services provider, headquartered in Tokyo, Japan, has joined the Aras Partner Program. With more than 20 years of IT innovation expertise, the NTT Data PLM team will provide end-to-end PLM consulting, implementation and integration services to global corporations.

NTT Data has more than 62,000 employees operating in over 35 countries. The company provides comprehensive, scalable, best in class PLM services, including planning and consulting, installation, configuration and development, integration, and maintenance, to companies in the automotive, aerospace, manufacturing and medical device industries.

“We are pleased to welcome NTT Data to the Aras partner program and the Aras Community,” said Peter Schroer, President of Aras. “The team at NTT knows PLM, they know Aras Innovator and they have a proven track record of success with leading multinational businesses.”

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## ***OPEN MIND Technologies AG: hyperMAXX now also for 2D Machining***

30 September 2013

Since 2010 OPEN MIND hyperMAXX® has provided a 'high-performance cutting' strategy that allows considerably higher material removal rates to be achieved while also protecting tools and machines. Already established for 3D and 5axis machining, it can now also be used for 2D tasks.

*hyperMAXX*®, the roughing module fully integrated into *hyperMILL*®, combines optimal milling paths, maximum material removal and the shortest possible machining times. The *hyperMAXX*® adaptation in *hyperMILL* is based on the Volumill™ technology kernel from Celeritive Technologies. Ideally distributed milling paths and the dynamic feedrate adjustment to existing cutting conditions ensure that milling always takes place at the fastest possible feedrate. Machining is always performed using climb milling, in a spiral retraction of tool movements that increasingly approximate the required contour as they reach the end. The milling tool generally operates using the complete cutting length. A special system algorithm ensures that the same volume is always removed by each milling tooth. This ensures

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the optimal capacity of the tool, while ensuring that it is not overloaded, and it generates a large material removal rate.

The requirement for optimal machining is the dynamic adjustment of the feedrate to the existing cutting conditions. The user does not enter a fixed value for the spindle speed and feedrate. Instead, they provide key data with which the respective machine tool and the tool can operate. The *hyperMAXX*<sup>®</sup> tool path is then calculated with regard to the chip volume and balanced movement. The process is suitable for soft materials, such as aluminium, but especially for steel, titanium and nickel alloys.

The key benefits are:

- Constant load on the tool and the machine during the entire machining operation.
- Reduced machining times.
- The fastest possible, safe positioning of the tool
- The plunge macro always creates a complete helix or ramp movement: The user need not enter a helix radius because this is generated automatically
- No sharp edges or sudden changes in milling direction.
- Intelligent automated functions for optimised adjustment of feedrate and infeed for the machining of tight areas with full cutting and long tool paths (soft material), as well as trochoidal tool paths that avoid full cutting (harder materials)
- Up to 100 % of the tool diameter can be used without leaving material behind
- The tool-friendly process has another positive effect: Users have access to a range of more straightforward milling tool qualities with significantly lower costs
- Postprocessor adjustment is not required as *hyperMAXX*<sup>®</sup> is fully integrated into *hyperMILL*<sup>®</sup>

## Extension for 2D and 5axis machining

*hyperMAXX*<sup>®</sup> was initially used for 3D arbitrary stock contour machining as well as 5axis shape-offset roughing. OPEN MIND now also offers this optimisation strategy for high-performance cutting for 2D pocket milling.

When used for 3D pocket milling, any open or closed pockets, pockets with islands, etc. can be machined much more quickly with the help of *hyperMAXX*<sup>®</sup>.

The 5axis shape-offset roughing and finishing function was introduced in 2011 with *hyperMILL*<sup>®</sup>. This adopts the curved surfaces of a component, such as for turbine housings, structural parts for aircraft or tire moulds, as the standard surface. The tool operates at an angle of 90 degrees at every point. The strategy works as if it involved 'curved' Z roughing or Z finishing. This makes creating the NC program much easier.

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## *Perforce Software Announces Free, Cloud-Based Document Collaboration Service*

1 October 2013

Perforce Software today announced a free cloud-based document collaboration solution. Commons Cloud™ combines the simplicity of modern social applications with the version management capabilities of advanced software development tools. In minutes, anyone can create a hosted team of up to 20 participants to iterate on and evolve any type of file. There's no limit to the number of teams you can join.

Ideal for distributed teams who work in parallel on highly iterative digital assets, Commons Cloud eliminates the manual effort of searching for the right file, resolving conflicts among file versions and merging edits to a document. The service was designed for the 83 percent of knowledge workers that a recent survey by Harris Interactive found were still losing time to file versioning issues, despite using a document management system or file sharing service.

With Commons Cloud, users can simply drag a file anywhere into system and the File Valet stores the file to the right place, notifies you of potential conflicts and recommends actions. Backed by the powerful versioning engine used by the world's largest and most innovative software companies, Commons maintains an indelible record of all files, versions and comments. You can see at a glance who did what, when and why, bringing complete traceability to organizations that require it.

“One of the best things about Commons is that it provides all users with a complete and permanent history of every file, which makes everyone worry less about losing their work,” said Scott Gilliland, technical specialist at Altair Engineering, Inc. “Another feature we enjoy is the 'File Valet.' It makes collaboration easy by letting teams across business functions work on the same files in parallel as it automatically merges all the changes.”

### **The Benefits of Commons Cloud**

- Easy file management—you'll never have to search for the right file again
- Automated compare and merge capabilities for Microsoft Word and PowerPoint files
- Complete and permanent record of all files, edits and comments for traceability and transparency
- Follow the evolution of content by receiving notifications anytime a file is modified or commented on

“Documents evolve so quickly that most teams are hard pressed to keep pace,” said Christopher Seiwald, founder and CEO of Perforce. “Knowledge workers lose time everyday searching for the right file, manually resolving conflicting versions and trying to piece together the contributions from colleagues. We created Commons Cloud to extend the power of enterprise version management to teams that are working on things like PowerPoint files, artwork and Microsoft Word documents. It's a flexible and easy-to-use way for all types of knowledge workers to collaborate, but it makes no compromises to enterprise needs for compliance.”

## Availability

Commons Cloud is now available for free at [commons.perforce.net](http://commons.perforce.net). It takes just minutes to create set up a team and begin collaborating.

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## *PTC Introduces PTC Mathcad<sup>®</sup> Prime<sup>™</sup> 3.0; Supports the Most Advanced Engineering Design Calculations*

2 October 2013

[PTC](#) today announced the availability of [PTC Mathcad Prime 3.0](#), the latest version of its engineering calculation software designed for solving, analyzing and sharing engineering design knowledge. PTC Mathcad Prime 3.0 has significantly improved its calculation capabilities to allow more complex equations to be solved, faster. PTC Mathcad offers hundreds of mathematical functions, the unlimited ability for users to define their own, the capability to solve equations both numerically and symbolically, and the power to solve the most complex systems of equations.

Specifically, with the new release, PTC Mathcad Prime 3.0 offers overall benefits to users in the areas of:

- **Documentation Enhancements** – Introducing math in text, the ability to format math regions and ability to create new worksheets based on existing personal or company standardized templates which help support adherence to standards for calculations and documentation
- **Custom Functions** – Capability to reuse existing algorithms already coded in C++, C, Fortran etc., to extend PTC Mathcad capabilities beyond what is provided out-of-the-box
- **Global Definition Operator** – Ability to define constants and parameters that can be used anywhere in the worksheet, and to define parameters close to the end result
- **Numeric Enhancements** – New faster matrix decomposition functions with support for pivoting and complex numbers
- **Surface interpolation in contour plots** – Users can now create a contour plot of a set of unordered 3D points leveraging a PTC Creo<sup>®</sup> surface interpolation algorithm
- **Usability Improvements** – Offers a number of improvements to frequently used functionality (such as pasting images to headers/footers and overtyping equations) that can translate into increased efficiency

“We are pleased at how intuitively ideas are captured in PTC Mathcad Prime 3.0. Math is now represented in a way that is easy for the author to write – and easy for a reviewer to understand,” said Scot Shields, design engineer, Hagler Systems. “PTC Mathcad Prime 3.0 provides us with an environment where quick notes can be made, models can be built to test hypotheses and results can be verified.”

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“As a result of a common tool that produces worksheets that can be easily used and understood by all levels in our organization – and for everything from documentation to sophisticated design studies - our engineers can now actually spend time engineering,” continued Shields.

## **Integration with PTC Creo® and PTC Windchill®**

By linking design inputs and calculation results to PTC Creo, engineers are easily able to perform test analyses, optimize geometry parameters and perform verification and validation steps on final designs to confirm original customer requirements are met.

Similarly, allowing Mathcad Prime 3.0 worksheets to be managed directly by PTC Windchill, users benefit from global collaboration, version control, and traceability for their critical design and engineering knowledge.

“Using engineering calculations to drive CAD models managed by a PLM backbone is the engineers’ way of crossing their “t’s” and dotting their “i’s,” said Brent Edmonds, senior director, Mathcad, PTC. “The level of integration in PTC Mathcad Prime 3.0 between PTC Creo and PTC Windchill essentially closes all the loops and ensures the accuracy of our customers’ final products.”

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## ***RuleDesigner PDM Express Available for Engineers using CATIA V5***

30 September 2013

ENGINEERING PLM Solutions keeps on enriching its CAD integrations portfolio for its *Express* line – the cost-effective solution for managing technical data- and announces today the release of the integration for Catia V5.

RuleDesigner PDM Express permits to organize and manage technical data with only 49 euro per user/month. In a very short time, users are able to autonomously design their organized part-numbering method, to monitor activities through configurable workflows and to store technical data in a centralized and well-structured repository.

Now, CATIA V5 users can benefit from RuleDesigner PDM Express to quickly classify, in a driven way, their data and share them with the design team.

What is more, the “Automation” module can be added to manage both batch operations and BOMs. On the one side, it allows to automatically run massive actions, including printings, multiple files extraction or storage, file conversion and title-blocks and properties relocation. On the other side, the BOM environment permits to manage bill of materials with configurable BOM-types and it also provides tools for exporting and synchronizing data with external systems.

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To date, many companies worldwide rely on RuleDesigner. It is a solid independent and multi-cad solution, already integrated with the most popular CAD systems 2D and 3D. Finally, as a modular and scalable solution, RuleDesigner provides extended collaboration and PLM management.

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## **Siemens PLM Introduces Parasolid v26.0**

1 October 2013

Parasolid version 26.0 includes enhancements in a wide variety of areas with a special focus on providing high level functionality to support rapid development of sophisticated PLM applications. Areas enhanced in v26.0 include Modeling, Blending, Surface Modeling, Wire and Sheet Modeling, and Support Collateral.

### **Modeling**

Enhancements have been made to the handling of matched topology in local and global Booleans. Parasolid now provides fully-automatic matching of nearly coincident regions between the target and tool bodies. The application can specify a tolerance bound for the coincidence test or Parasolid can select a suitable value. Developers are now encouraged to use Parasolid functionality to streamline this aspect of their application.

A body can now be created by sweeping a tool body, locked in a defined orientation, along a 3D path. This is particularly useful for modeling tool paths in CAM.

### **Blending**

Edge blends can now be created with the requirement that they are curvature continuous with their underlying surfaces. Enhancements have also been added to resolve self intersections in G2 face blends.

### **Surface Modeling**

When creating a surface to fill a hole, the usual G2 requirement may be relaxed in areas where the existing geometry makes it impossible to fit a G2 surface. This is a common case when importing data from other systems.

### **Wire and Sheet Modeling**

Wire bodies may now be split or knit whilst retaining edge tags. Control is also provided as to whether internal loop of faces are sewn up. This gives developers extensive control of behavior.

### **Support Collateral**

Several notable enhancements have been made to Parasolid's support collateral to help improve developer efficiency. These include additional C++ code examples and extensive revision of the

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Workshop.Net Source Code Overview documentation.

These broad enhancements are in addition to numerous highly-specialized improvements targeted at specific industries and workflows.

For more information,

visit: [http://www.plm.automation.siemens.com/en\\_us/products/open/parasolid/v26.shtml?stc=wwia400200](http://www.plm.automation.siemens.com/en_us/products/open/parasolid/v26.shtml?stc=wwia400200)

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## ***With Addition of Eight New Publishers, Knovel On Track for Record Year***

30 September 2013

With the most recent addition of eight new partners, [Knovel](#) is on track for its best year yet in bringing new publishers and adding content to the platform. These publishers' collections expand and enhance Knovel's topic coverage in content subject areas, including [marine engineering](#), civil engineering, [software engineering](#) (coming in October), earth science, environmental engineering, mechanical engineering and industrial engineering.

“With these latest additions, Knovel will have added at least 20 new publishers by the end of 2013, a record year for expanding our roster of publishing partners,” said Meagan Cooke, Senior Director of Product Management, Content for Knovel. “These eight new publishers, all who have joined us in just the past few months, are supporting seven subject areas – including our soon-to-be-released software engineering collection. We’re adding both breadth and depth to our subject areas by including many specialized publishers and societies that focus on the practical needs within specific engineering disciplines.”

The eight new publishing partners include:

[Packt](#): Packt is one of the most prolific and fast-growing tech book publishers in the world. Packt's books focus on practicality, recognizing that readers are ultimately concerned with getting the job done. Packt's digitally-focused business model allows the publisher to offer up-to-date books in very specific areas.

[IGI Global](#): IGI Global is a leading academic publisher of books, journals, encyclopedias, teaching cases, proceedings and databases. Offering premier and peer-reviewed content to researchers, engineers and scientists, IGI Global's publications focus on the utilization and management of information science and technology.

[Royal Institution of Naval Architects](#): The Royal Institution of Naval Architects is an internationally renowned professional institution whose members are involved in the design, construction, repair and

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operation of ships, boats and marine structures. The Institution enjoys an outstanding reputation for the quality and range of its technical journals, transactions and conference proceedings.

**Whittles Publishing**: Whittles Publishing offers quality, well-produced and attractive books in the following subjects: geomatics, civil and structural engineering and applied science. Whittles Publishing is a source of high quality, informative and practical technical books authored by many eminent and well-respected authors from around the world.

**Energy Institute**: The Energy Institute (EI) is the professional body for the energy industry, delivering good practice and professionalism across the depth and breadth of the sector. The EI provides learning and networking opportunities to support professional development, as well as professional recognition and technical and scientific knowledge resources on energy in all its forms and applications.

**IT Governance**: IT Governance Ltd is the single-source provider of books, tools, training and consultancy for IT governance, risk management and compliance (IT-GRC). The company is a leading authority on information security and IT governance for business and the public sector. Its objective is to provide in a single place everything that's needed to meet today's technology compliance challenges.

**Bentley Institute Press**: The Bentley Institute Press publishes a wide variety of MicroStation and CAD how-to guides, generative design materials and software reference books to deliver insight, background, and theory about many infrastructure software topics. These reference books capture the authors' knowledge in a way that helps users increase product know-how and improve modeling and work flow efficiency.

**Chartered Institution of Building Services Engineers (CIBSE)**: CIBSE is the standard-setter and authority on building services engineering in the UK and overseas. It speaks for the profession and supports career development, publishes Guidance and Codes which are internationally recognized as authoritative, and sets the criteria for best practice in the profession.

“We are delighted to have entered into a partnership with Knovel,” said Hannah Perrett, Head of Publishing for IT Governance Ltd. “Knovel presents an exciting opportunity for IT Governance – the platform is innovative, and the customer focus entirely suits our content, which complements our own offering through specialist marketing and value-add material and content. Through this partnership, we hope very much to extend the IT Governance brand to the engineering community across the world, and to work with Knovel on ways of developing access to our titles.”

Knovel works with more than 100 societies and publishers worldwide, ensuring that engineers have access to trusted sources of technical content across more than 30 subject areas.

For more information about Knovel and publisher opportunities, go to: <http://why.knovel.com/solution/content.html>.

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