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CIMdata News

CIMdata Provides Strategic Consulting for Embraer's Enterprise PLM Program

25 April 2013

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, today announced its strategic role in Embraer's next generation PLM initiative. Embraer, the world's largest manufacturer of commercial jets up to 120 seats, first engaged CIMdata in 2011 to provide strategic advice and counsel during the strategy development and PLM solution provider selection phases of its enterprise PLM program.

Embraer's PLM program team was responsible for gathering and harmonizing the global organization's requirements, setting the vision, and selecting the solution provider for its future PLM environment.

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“CIMdata’s wealth of PLM expertise, global perspective and independence were invaluable to our program. CIMdata provided us with critical insight and expertise that accelerated our program definition,” said Mr. Fernando Ranieri, Embraer’s VP Strategy - Engineering and Technology. Mr. Ranieri went on to say, “We look forward to working with CIMdata and will rely on their contribution during the implementation of our new PLM environment.”

During this part of the Embraer’s PLM initiative, CIMdata senior consultants employed their extensive methodology and associated tools while working with Embraer’s PLM core team and sponsoring executives in a highly collaborative manner to define the company’s enterprise PLM program and strategy for its success.

Mr. Alexandre Baulé, Embraer’s Chief Information Officer, commented, “Embraer has greatly benefited from CIMdata consultants’ expertise and PLM consulting methodology. We have been impressed with CIMdata’s best practice-based approach as well as the organization’s ability to adjust to Embraer’s business climate and culture. CIMdata is an invaluable member of our PLM program and we count on them in the months and years to come for the program’s successful implementation.”

CIMdata’s President, Mr. Peter Bilello, said, “It has been a pleasure to work with Embraer over the last year and a half. CIMdata has been impressed with Embraer’s strategic view of PLM and how it can transform the company. Embraer’s culture of innovation, collaboration, and individual commitment supported by knowledgeable and engaged executive sponsors has provided the basis for a PLM initiative that is an excellent example of how a large-scale PLM program should be executed. CIMdata looks forward to providing additional strategic consulting support to Embraer’s PLM program during solution implementation.”

The involvement of CIMdata in this strategic initiative for one of the world’s largest aircraft manufacturers further validates CIMdata’s PLM consulting methodology and its position as the leading global PLM strategic management consulting and research firm.

About Embraer

Embraer S.A. is the world’s largest manufacturer of commercial jets up to 120 seats, and one of Brazil’s leading exporters. Embraer’s headquarters are located in São José dos Campos, São Paulo, and it has offices, industrial operations and customer service facilities in Brazil, China, France, Portugal, Singapore, and the U.S. Founded in 1969, the Company designs, develops, manufactures and sells aircraft and systems for the commercial aviation, executive aviation, and defense and security segments. It also provides after sales support and services to customers worldwide. For more information, please visit www.embraer.com.br.

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

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world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM-enabling technologies.

CIMdata 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, 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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How Simulation Supports Systems Engineering: a CIMdata Commentary

23 April 2013

Key takeaways:

- *Companies are striving to apply simulation early in the product development cycle, where systems engineering is often used to allocate requirements and to define and evaluate multi-discipline tradeoffs.*
- *The majority of product lifecycle cost is determined by decisions made early in the development process. The decisions upon which costs are based become very expensive to alter or correct later in the process.*
- *Products are no longer simply mechanical systems. Model-based systems engineering can be used to enable collaboration across multiple engineering (e.g., mechanical electrical, software, and controls) and other enterprise disciplines (e.g., purchasing, finance, and project management).*
- *CIMdata believes that systems engineering will become the pervasive paradigm for product development, supporting and promoting a systems thinking mindset.*

Companies have always faced intense competitive pressure to develop products better, faster, and cheaper. Simulation is a key enabler to accomplishing this today and into the future. Improved software, better integration with design tools and faster response (turnaround) times for simulation enable it to be used earlier in the product development process.

Traditionally, simulation has been used to assess the performance of and validate completed designs. This function is no less important now, and it is well established at many companies. However, simulation “up front” involves a different set of issues.

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The Systems Engineering Vee is often used to depict the complete product lifecycle—from concept through end-of-life, as shown in Figure 1. For mechanical product design, the base of the Vee is usually detailed design represented by CAD models of the individual components. The right side of the Vee is then the validation and integration of the components into subsystems and systems, ending with validation of the final product. Traditional simulation is used (along with physical testing) to evaluate components, subsystems and systems, and validate the final design.

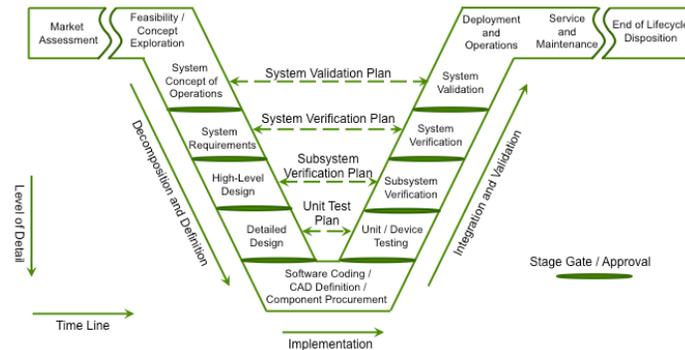


Figure 1—The Systems Engineering Vee¹

The left side of the Vee represents the process of capturing, defining, and understanding the product’s requirements, and then specifying, in increasingly deeper levels of detail (decomposing and allocating), the requirements for product systems, subsystems, and components as well as the interactions among them. The left side of the Vee encompasses product ideation, concept selection, and the definition of overall product architecture.

One can see that the left side of the Vee is a systems engineering problem. It is here that decisions are made at the systems level that trade off between competing requirements like cost, weight, durability, performance, range, and fuel economy, among others. Simulation up front, on the left of the Vee, by necessity then requires a multi-physics capability within a framework of systems engineering. As simulation is implemented up front for balancing performance with other requirements (i.e., cost, weight, etc.), simulation must simultaneously comprehend load cases for different physics disciplines. For example, the design of a space optical device (e.g., telescope) demands that the structural, thermal, and optical analyses be coupled. Thus, as companies drive to up-front simulation to improve early product decisions, they are driving towards multi-physics, multi-domain simulation, and systems engineering.

The driving forces are program cost and product lifecycle cost, as suggested in Figure 2. Studies over four decades have shown that the overwhelming portion of total product lifecycle cost is determined by decisions made very early on in the product development lifecycle. Engineering on the left side of the Vee consumes only about 4% of the program cost, but determines about 80% of the product lifecycle cost. The implications are tremendous and early simulation can have a significant impact on the design and lifecycle cost.

¹ Adapted from: US Federal Highway Administration: <http://ops.fhwa.dot.gov/publications/seitsguide/> “Systems Engineering for Intelligent Transportation Systems”

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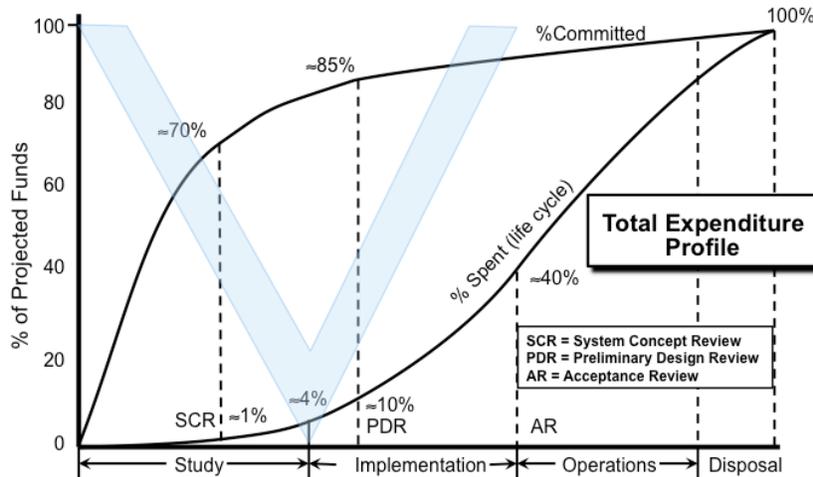
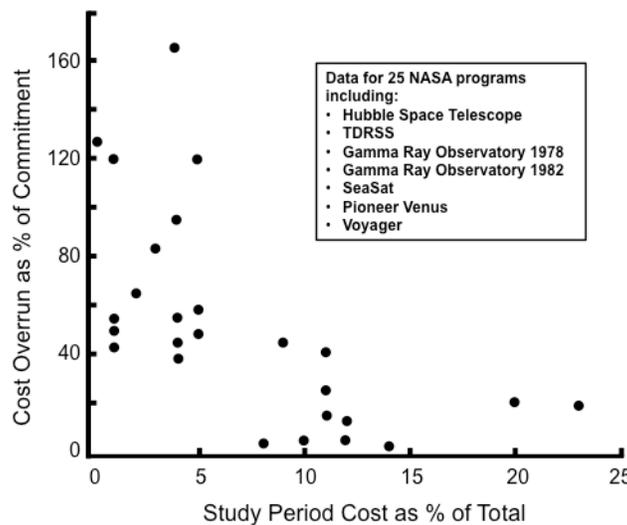


Figure 2—Most of the Product Lifecycle Cost is Committed on the Left Side of the Vee²

One might expect that good decisions made early during product ideation, architecture development, and concept development are critically important. Conversely, bad decisions are almost always very expensive or even disastrous to correct later.

This is confirmed in Figure 3, which shows that cost overruns correlate with fewer resources spent early in a product’s development program. Getting it right on the left side of the Vee is crucial for product and program success.



**Figure 3—Cost Overruns Correlate with Hasty Project Starts³
(Data from 25 NASA Programs)**

Systems engineering practices have been used for software development and for electrical system design for some time, much more so than for mechanical system design. Now, increasing product complexity and increasing interdependence is driving systems engineering across all domains, including

² Adapted from: Forsberg, Kevin, Hal Mooz, and Howard Cotterman. “Visualizing Project Management.” 2nd Ed. John Wiley & Sons, NY. 2000.

³ Ibid

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mechanical, electrical, software, control systems, chemistry, physics, and others depending on the industry.

Products are no longer simply mechanical systems. A modern automobile contains fifty plus microprocessors and millions of lines of computer code. Systems engineering is a critical enabler for the concurrent design of mechanical, electrical, control systems, and other domains, and for the implementation of the concurrent engineering techniques of model-, hardware-, and software-in-the-loop. In this regard a model is a digital description of some aspect of a product. For example, a simulation utilizes a digital model to predict some aspects of product or manufacturing system performance. Such models are created for mechanical, electrical, software, and controls system behavior for products. Models from one domain can be used as surrogates in another domain, to enable concurrent engineering; for example, a control system can be developed before the availability of actual electronic or mechanical hardware. This is the basis for the evolving paradigm of model-based systems engineering (MBSE).

The International Council on Systems Engineering (INCOSE) has published a roadmap for MBSE that extends for more than a decade, beyond 2025. The move to systems engineering is not a fad or a short-term trend. In CIMdata's view systems engineering will be the framework for product development well into the future.

The move to systems engineering has a number of drivers, not just up-front engineering and MBSE. Among these are:

- *Focus on Systems, not Components:* The capabilities of most companies to design components have improved remarkably over the past few decades, to the extent that component design is no longer the driving issue. Rather, attention is being paid to component performance and interaction in the context of the systems and subsystems.
- *Optimization and Robust Design:* Robust design is a probabilistic method for design optimization. It seeks to maximize design performance and simultaneously to minimize the sensitivity of the performance with respect to variation in manufacturing and customer use, among other factors. Robust design and associated techniques explore the design space by assessing hundreds, or even thousands, of design alternatives.
- *Regulation and Compliance:* Systems engineering is virtually a requirement in highly regulated industries like pharmaceuticals, medical devices, and commercial aerospace, where companies have to document their development process in addition to meeting specific regulatory requirements. For example, the US Department of Defense (DOD) is now requiring that SysML models be used in its acquisition programs, to facilitate collaboration and improve communication between DOD and its suppliers. (SysML is a system modeling language.)

Companies are looking to their product development solution providers for the right offerings to support these more complex requirements.

CIMdata believes that systems engineering will become the pervasive paradigm for product

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development. Model-based systems engineering allows product knowledge to be captured in digital models for up-front decision making and to support concurrent engineering and collaboration across multiple engineering and other product related domains throughout the product's lifecycle.

Compounding product complexity and increasing regulations and compliance requirements demand these fundamental changes in the processes used to develop products and manufacturing systems in the future. Experience shows that when systems engineering concepts are applied to product developments, the results are improved efficiency, higher quality, and shorter time to market.

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

Dassault Systèmes Announces Acquisition of Archividéo

25 April 2013

Dassault Systèmes announced today the acquisition of Archividéo, a leader in the automated creation and management of large 3D urban environments and landscapes. The acquisition of Archividéo, based in Rennes, France, its technology, and its talents, brings a new dimension to Dassault Systèmes' 3DEXPERIENCE strategy and platform, extending it to urban environment planning with proven 3D city and landscape modeling technology. The amount of the transaction was not disclosed.

“This is an important acquisition for our company,” said Bernard Charlès, President and CEO, Dassault Systèmes. “The next step for sustainable planning is to imagine cities, countries or industrial fields in 3DEXPERIENCE universes. Our goal at Dassault Systèmes is the harmonizing of products, nature and life through 3DEXPERIENCE universes. With the integration of Archividéo technology within the 3DEXPERIENCE platform, we will provide a 3D model of any country to simulate ‘what if’ scenarios of energy, transportation, or construction flows compliant with reality.

This type of 3D city model allows consistent and accurate merging of multiple sources of data (from open-data to proprietary information), and provides an independent referential for a city and all the players involved in it. Thanks to Archividéo's heuristic technology, geo-photographic modeling, and

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procedural modeling technologies, complex urban and geo-environment models can be quickly created, with deep detail and tight mapping to the real-world environment.

"The partnership between Archividéo and the National Institute of Geographic and Forest Information is emblematic of a successful collaboration, enhanced by the co-published online service Territoire3D. We welcome the rapprochement between Archividéo and Dassault Systèmes and the prospects it opens for simulating cities and their development projects: future impacts, access to information, and collaboration of all stakeholders in the city and citizens," said Pascal Berteaud, Managing Director of the National Institute of Geographic and Forest Information (IGN).

Archividéo has over 250 customers, ranging from cities and municipalities to major utilities and other technology companies. The potential of Archividéo's technology and applications is broad. The addition of Dassault Systèmes' technology to Archividéo's will provide Archividéo customers a strong partner.

"This acquisition will power our 3DEXPERIENCE City Innovation Lab. We will help countries like China that are facing urbanization complexity to anticipate country development and to improve citizens' quality of life," said Bernard Charlès.

To learn more about Dassault Systèmes' 3DEXPERIENCE platform, please visit <http://www.3ds.com/3dexperience>.

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Dassault Systèmes Acquires FE-DESIGN

25 April 2013

Dassault Systèmes today announced the acquisition of FE-DESIGN Group, a leader in design optimization for early-stage product development. The acquisition of FE-DESIGN, based in Karlsruhe, Germany, expands Dassault Systèmes' SIMULIA applications to provide one of the most complete design optimization solution on the market. With more than 200 global product manufacturer customers, including General Motors, BMW, SIEMENS, and Suzlon, FE-DESIGN is the technology leader for non-parametric optimization solutions in both the structural and fluids-based domains. The amount of the transaction was not disclosed.

"Design optimization is a complex way of saying 'finding the right design' for business, for customers, and for the world. The 3DEXPERIENCE platform is all about optimizing a company's business and the products it offers. This is why FE-DESIGN is such a good fit for Dassault Systèmes," said Bernard Charlès, President and CEO, Dassault Systèmes. "Is it what customers want? Can we produce it quickly and effectively? And, is it right for a sustainable future? These are the questions industry must ask to harmonize products, nature and life. And these are the questions our 3DEXPERIENCE platform

answers.”

In a rapidly growing market, design exploration and optimization techniques are becoming essential to balance the demands of product performance against resource efficiency and time to market constraints. FE-DESIGN’s products will enhance Dassault Systèmes’ 3DEXPERIENCE platform and its ability to automate the process of simulating the right design more quickly and more efficiently.

“We have been working closely with Dassault Systèmes for more than 10 years and recognize the business benefits our customers will immediately gain through their global support organization, and more over time with their enterprise collaboration environment and advanced technologies for 3D modeling and realistic simulation,” said Dr. Jürgen Sauter, Founder and CEO, FE-Design. “As a strategic asset of Dassault Systèmes we will be able to significantly help our customers better use our products throughout their organizations.”

This transaction was completed on April 23, 2013.

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IBM Acquires UrbanCode to Help Businesses Rapidly Deliver Mobile, Cloud, Big Data and Social Software

22 April 2013

IBM today announced it has acquired [UrbanCode Inc.](#) Based in Cleveland, Ohio, UrbanCode automates the delivery of software, helping businesses quickly release and update mobile, social, big data, cloud applications.

Mobile, social, big data and cloud technologies are driving demand for new, faster and more frequent approaches to software delivery. Waiting days or even months to get an update to clients is no longer acceptable. With UrbanCode’s technology, businesses can reduce the cycle time it takes to get updates or new applications into market, from months to minutes. This approach is designed to help reduce cost and risk, while helping address changing client needs by enabling a company to rapidly incorporate feedback into and improve the overall quality of their applications and services.

UrbanCode’s software is a natural extension of IBM’s DevOps strategy, designed to simplify and speed the entire software development and delivery process for businesses. The new capabilities also enhance IBM SmartCloud and IBM MobileFirst initiatives by making it easier and faster for clients to deliver software through those channels. For example, by combining UrbanCode software with the IBM MobileFirst Worklight technology, businesses can now author and deploy an application for any mobile device in hours, versus a previous multi-day timeline. The UrbanCode solution also works with traditional applications including middleware, databases and business intelligence.

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A recent [study](#) by the IBM Institute for Business Value uncovered that almost 70 percent of companies using software development for competitive advantage outperform their peers in profitability. As innovation in software becomes more and more critical to success, businesses need a collaborative, intuitive and continual approach to development, testing and delivery.

“Companies that master effective software development and delivery in rapidly changing environments such as cloud, mobile and social will have a significant competitive advantage,” said Kristof Kloeckner, general manager, IBM Rational Software. “With the acquisition of UrbanCode, IBM is uniquely positioned to help businesses from every industry accelerate delivery of their products and services to better meet client demands.”

Together UrbanCode and IBM technology will be unmatched in the industry, providing businesses a continuous process for developing, testing, and delivering new and updated software," said Maciej Zawadzki, chief executive officer, UrbanCode. "By removing the bottlenecks that traditionally exist between development teams and production systems, businesses can drive rapid innovation."

More [than half of surveyed](#) companies agree effective software development is crucial to competitive advantage. Yet, only a quarter of companies feel they have effective methods. UrbanCode's capabilities will help solve this execution gap with the ability to accelerate software delivery.

IBM plans to continue to support UrbanCode clients and enhance their technologies while allowing these organizations to take advantage of the broader IBM portfolio.

For more information please visit: <http://www.ibm.com/software/rational/>.

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Infor Announces Intent to Acquire TDCI, Inc.

23 April 2013

[Infor](#) announced it has entered into a non-binding letter of intent to acquire TDCI Inc. Based in Columbus, Ohio, TDCI is a provider of product configuration management and guided selling solutions for manufacturers and distributors of customizable products and services. TDCI's product configuration management applications help companies improve direct and channel sales performance, and accelerate time-to-market for new products.

The TDCI Product Configuration Management solution includes:

- TDCI Product Configurator - Provides product or other configuration services to a variety of applications including ERP, CRM, and sales solutions.
- TDCI Sales Portal - Provides a web portal for sales people and trading partners to quote and order configured and non-configured products.

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- TDCI Flex Suite for the generation of 2D drawings, 3D models, photo-realistic images, and dynamic documents.

TDCI products are already integrated with many leading Infor ERP applications, including Infor LN, Infor SyteLine, Infor XA, and Infor Distribution SX.e.

Financial terms of the proposed transaction are not being disclosed. Completion of the acquisition will be subject to satisfactory completion of due diligence, negotiation of a definitive share purchase agreement, and customary closing conditions. The parties expect to complete the transaction within thirty days.

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Tata Technologies to Acquire Cambric –U.S.-based Engineering Services Company

26 April 2013

Highlights:

- Access to high-end, systems engineering, engine design and powertrain engineering capability
- Strengthens Tata Technologies' presence in the global Construction and Heavy Equipment sector
- Delivery expansion with addition of ~450 highly-experienced engineers in Romania and U.S.
- Near-shore delivery presence in Eastern Europe
- Expands Cambric market access and capabilities to Asia Pacific region and the Automotive sector

Tata Technologies today announced that it has signed definitive agreements for the acquisition of U.S.-based Cambric Corporation, a premier engineering services company providing turnkey engineering services to its customers. The partnership will strengthen Tata Technologies' global footprint and domain capabilities to provide high-end engineering services to a diverse set of existing and new clients, especially in Europe. It will also provide Cambric access to the Asia Pacific region.

Cambric is a U.S. headquartered global engineering services company with a significant footprint in Eastern Europe. The company has three development centers in Romania and its customers include some of the world's marquee heavy machinery, agricultural, off-highway and automotive companies. Cambric provides system level engineering and design capabilities in engine, powertrain, chassis/structures, body, electrical and hydraulic systems to its global customers. Cambric is a privately held company with private equity investors holding majority stake in the company. Cambric had revenues of \$25 million as of 31 December 2012 with majority of revenues coming from the Construction and Heavy Equipment sector.

Commenting on the acquisition, Patrick McGoldrick, Managing Director and CEO, Tata Technologies, said: "Cambric gives our customers in the Construction and Heavy Equipment as well as in the Auto

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sector access to specialists in this field as well as an access to Cambric's powertrain expertise. Additionally, Cambric's customers will have access to Tata Technologies' footprint in Asia Pacific and complementary capabilities including embedded systems, enterprise IT and extensive automotive domain experience."

"I am pleased to welcome them to the Tata Technologies family" added Mr. McGoldrick.

Tim Hayes, CEO, Cambric, said: "We are excited to become a part of Tata Technologies ambitious growth strategy and look forward to providing our customers the added breadth, depth and global footprint that the combined entity provides. We see this combination of our two companies as a means to match our clients' global operations with our own engineering footprint. We will now have similar engineering capability in the Asia Pacific region to supplement our significant Romanian and U.S. presence."

Cambric was advised by Rothschild and Holland Hart. The transaction is subject to customary closing conditions.

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Company News

Altium Expands Customer Reach with FISHER/UNITECH Partnership

25 April 2013

[Altium](#) has partnered with [FISHER/UNITECH](#) to deliver Altium's unified electronic design solution and support to the company's expansive customer base in the Midwest. The Altium software is a compliment to the line of SolidWorks tools and solutions that FISHER/UNITECH currently carries and will help expand Altium's coverage in the US market.

"We are excited to add Altium products to our solutions matrix. Adding Altium Designer 2013 and Altium Vault Server to our product mix allows us to offer our customers a true concept to manufacture solution, which now includes the industry's best electronics design offering," said Charles Hess , chief executive officer of FISHER/UNITECH. "The new Altium Vault Server product extends our ability to significantly reduce our customers' development times."

FISHER/UNITECH will make available the full Altium product line to the Midwest including: Ohio, Indiana, Michigan, North Dakota, South Dakota, Nebraska, Iowa, Kansas, Illinois, Wisconsin, Minnesota, Missouri and Kentucky. This will encompass Altium Designer, a unified system design solution targeting FPGA, PCB and embedded systems designers and the Altium Vault Server, a powerful engineering content management solution.

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Altium Designer is a unified solution that helps customers improve team collaboration, eliminate data movement bottlenecks and shorten time to revenue. The Altium solution includes ECAD/MCAD 3D PCB integration, instant FPGA prototyping, flexible design reuse and robust ECO handling – competitive requirements in today's systems-based design industry.

The Altium Vault Server helps bridge the worlds of design with fabrication, assembly and procurement and provides users with key benefits such as live links to supply chain information, shortened design cycles, traceability and collaboration.

"We are excited to once again partner with a leading SolidWorks reseller in North America like FISHER/UNITECH to provide maximum local representation and expertise to our growing customer base. Altium has now partnered with three major SolidWorks Resellers to also represent Altium products; we feel significant synergy between these companies and their ability to provide local expertise and knowledge," said Chris Donato, director of sales for North America, Altium. "Moreover, FISHER/UNITECH's PLM expertise allows us to significantly accelerate adoption of our Altium Vault Server Technology."

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ANSYS Appoints Walid Abu-Hadba as Chief Product Officer

22 April 2013

ANSYS, Inc. announced that 20-year Microsoft veteran Walid Abu-Hadba has joined the Company as chief product officer (CPO), effective immediately, reporting directly to Jim Cashman, president and CEO. Abu-Hadba will be responsible for providing leadership for the overall strategy and management of the activities within our technical business units, including integration, development, research and patents.

"Walid brings extensive experience and insight to ANSYS in his new role as CPO. His career has spanned two decades in product development in an enterprise environment," said Jim Cashman, president and CEO. "The growth and added complexity of our own business, combined with the rapid evolution in new computing paradigms and the engineering simulation market has been tremendous. Walid will bring new perspectives and expertise that will add to the vast amount of talent within the ANSYS global team. We are excited that Walid has joined us to continue to drive our long-term vision of comprehensive, full-fidelity virtual prototypes enabling Simulation Driven Product Development™."

Abu-Hadba, with more than 20 years of technology leadership experience, was most recently Corporate Vice President, Developer & Platform Evangelism for Microsoft. During his career at Microsoft he has worked in a number of progressively senior positions, including Vice President, Specialist Sales, Enterprise & Partner Group, General Manager, Asia Pacific and Japan Technical Center and General Manager, Global Technical Center.

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ASCON Partner Rubius Tapped for C3D Geometric Kernel Development

24 April 2013

ASCON today announced that long-time development partner Rubius' new role as a developer of CAD systems and applications based on ASCON's C3D kernel. The partnership between ASCON and Rubius stems from years of collaboration between the two software developers.

Rubius specialists proved their experience in CAM development through their development of the *parametric* solid modeling module embedded in ESPRIT CAM. They are applying their knowledge by developing a similar module for a Russian CAM system to be released shortly.

ASCON and Rubius have long worked together. Their partnership began when Rubius developed PDM modules for ASCON; later, they integrated ESPRIT with ASCON products, and then adapted KOMPAS-3D for specialized requests by users. In addition, the company successfully developed software such as Rubius Electric Suite for KOMPAS-3D and Rubius Project Manager.

"We gained a rich experience in working with C3D and its developers," reports Sergey Koshevoy, software development manager at Rubius. "The C3D kernel is a powerful and reliable technological foundation upon which we can solve complex engineering tasks using 3D design. We are ready to extend our experience to new projects, and by providing a service in integrating C3D with customers' software."

"Not only is it important to us that C3D be developed as a product, but we also want to establish an ecosystem around our geometric kernel," said Oleg Zykov, C3D product director of ASCON. "Rubius is famous for its highly qualified programming team, and so we are glad to recommend that our customers take advantage of our new partner's services."

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Bentley Systems' ProjectWise and Bentley Navigator Honored for Outstanding Innovation for the Construction Industry

24 April 2013

Bentley Systems, Incorporated, today announced that [ProjectWise V8i](#) and [Bentley Navigator V8i](#) have each won a commercial 2013 *Constructech* Top Product award in the "Trusted Products" category. This is the third time in as many years that *Bentley Navigator* has won the award and the second consecutive year *ProjectWise* has won. The award honors technology solutions that have demonstrated the greatest innovations geared toward the construction market. Products and solutions eligible for the Trusted

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Products category comprise core technology offerings that have been on the market for at least three years. The winning products are selected by the magazine's editors based on criteria that include their overall usefulness, uniqueness to the construction industry, and growth rate in users during the past year.

“The 2013 *Constructech* Top Products winners are solutions that can help bring IT strategy to fruition, taking a company to a whole new level,” said Peggy Smedley, editorial director, *Constructech* magazine. “*ProjectWise* and *Bentley Navigator* have demonstrated exceptional value for iterative project review, analysis, simulation, and work sharing. Equally important, Bentley has consistently added new value to these offerings that helps users meet the changing needs of the construction industry.”

Huw Roberts, Bentley vice president, core marketing, said, “It is an honor to have two of Bentley's foremost products recognized by *Constructech* for the second and third year in a row. The construction industry has long been a key area of focus for Bentley, and we've made a huge commitment to helping the industry improve its success by enhancing collaboration and interactivity through information mobility. We will keep adding new and exciting offerings to extend the value for construction practitioners – such as our brand new *Navigator Mobile* app with powerful review capabilities to intuitively navigate 3D AEC models and documents on the iPad. We are proud to be recognized for the value and dramatic growth rates for these products, and it's particularly gratifying to win multiple years running, which attests to our success in ensuring these products evolve with changing user demands.

“I thank the editors of *Constructech* for these awards, and for their dedication to advocating for the advancement of innovative technologies that enhance the productivity of construction workflows.”

For additional information about the 2013 *Constructech* Top Products awards, visit www.constructech.com.

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Bentley Systems Proudly Supports ‘Water For People’ with Major Donation to Help Improve Water Systems in Emerging Economies

22 April 2013

Bentley Systems, Incorporated, announced that it has contributed \$100,000 to Water For People in support of the organization's work improving water systems in emerging economies around the world. Bentley has also donated a selection of eight software products from its portfolio, including *MicroStation*, *WaterGEMS*, *SewerGEMS*, *FlowMaster*, and *Bentley Map*. The software will be used by Water For People team members to design, engineer, and construct water systems, as well as to map the functionality of water points in every district. Team members will access the software through Bentley's *STUDENTserver* self-serve website, which will enable them to download, at no charge, current and future versions of the software and provide them with access to training and technical support.

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Water For People teaches local communities in Africa, Central and South America, and India how to build, manage, and maintain water and sanitation systems, and to build capacity that ensures the systems can be operated and maintained at levels appropriate for each community. Bentley is a global sponsor of Water For People, with many of its colleagues – including Bentley COO Malcolm Walter, who serves on the organization’s board – volunteering their time to the organization.

Ned Breslin, executive director, Water For People, said, “I want to thank Bentley not only for its generous contributions, but also for its long-standing corporate commitment to sustaining crucial infrastructure, including water systems, around the globe. Its funding and donation of software for cost-effectively designing and building water and wastewater systems, along with the enthusiastic volunteer work in support of our programs by many of its colleagues, will help us continue to have a significant positive impact on the communities we serve. With the continued support of corporate partners like Bentley, we may one day see an end to water poverty everywhere.”

Added Malcolm Walter, “Improving quality of life for people around the world is an essential part of Bentley’s mission. It’s what investment in sustaining infrastructure is all about. All of us at Bentley Systems are very pleased to support the crucial and amazing work that Water For People is doing sustaining water systems in areas currently struggling to provide communities with adequate supplies of safe drinking water. Very recently, on a trip to Bolivia, I was able to see firsthand the difference this wonderful organization is making in people’s lives. I saw the happiness in the faces of villagers who now have running water at their doorstep instead of 3 to 5 kilometers away – something that we in the developed world take for granted.”

He continued, “Water For People’s ‘Everyone Forever’ vision is for every family, every school, and every health clinic in the areas it works to have access to improved water and sanitation on a sustainable basis. Through the hard work and dedication of the volunteers behind this organization, partnering with local governments and municipalities and empowering people to be the architects of their own solutions, this vision of clean, safe water for everyone, forever, is becoming a reality.”

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DeSL Showcases PLM Solution to the UK Fashion Industry

25 April 2013

DeSL showcased their product suite to leading UK brands at a recent event held at the prestigious Saatchi Gallery, London.

During the highly attended seminar of over forty delegates, DeSL provided an insight into how the industry can achieve true collaboration across the global fashion supply chain using the latest in PLM technology. Particular highlights included the extensive mobility of the DeSL PLM solution, which is 100% web enabled with the ability to run across all mobile devices such as iPad, iPhone and Android. In

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addition, the powerful Adobe Illustrator Integrator, which is helping to reduce design time by up to 20% and the latest iPad Apps to help manage processes such as Ethical Trading & compliance and sales processes.

Client guest speakers at the event included Dewhirst, a leading UK manufacturer to companies such as Marks & Spencer, and Eileen Fisher a leading US high end women's wear brand, which recently selected to adopt the DeSL PLM solution.

Marie McCarthy, Head of Sales & Marketing, EMEA commented, "We were delighted host this seminar and have delegates from not only leading UK brands and manufacturers, but also renowned global brand names. It was great to hear how Dewhirst, a long standing customer of DeSL for the past five years, share their knowledge on how to achieve a successful PLM project and how their user community has now grown to over 600 users, this is a perfect example of the scalability of the DeSL PLM solution. Equally, it was interesting for the audience to hear from DeSL's most recent customer Eileen Fisher on how they approached their PLM project and criteria for selecting a PLM vendor."

Marie continued, "We've had excellent feedback from delegates who were truly impressed with the complete mobility of the DeSL PLM solution, the capability of the Adobe Illustrator Integrator and the innovative iPad Apps. We certainly hope to be hosting more of these popular seminars in the future."

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Famic Technologies Opens an Office in Germany

25 April 2013

Famic Technologies Inc., creator of the renowned Automation Studio™ design and simulation software for hydraulics, pneumatics, electrical and automation systems, is very pleased to announce the expansion of its operations with the opening of an office in Germany. The new office is located in Munich, ideally positioned to provide better support and sales in Europe, primarily in German speaking countries.

Charbel Nasr, President of Famic Technologies, says this expansion is the result of continued worldwide success. "We have an important customer base in Germany, Austria and Switzerland. Until now, we have been providing support remotely from Montreal. Opening an office in Germany demonstrates our commitment to our customers and partners and allows us to offer better service at a local level, during local work hours. Munich is the ideal location for us because of its strategic proximity to our client base. We've been eager to establish a fixed presence in an area in Europe where there is a strong concentration of OEMs in mobile hydraulic machinery."

This new office is the first expansion for Famic Technologies, which has been developing innovative design, maintenance and training software solutions for hydraulics, pneumatics, electrical and automation for more than 25 years. With a sales and support team in Munich, Famic will also be better positioned to serve its distribution partners. Charbel Nasr adds, "It's the first part of Famic

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Technologies’ plan to expand and improve service to the international market.” The company maintains all R&D activities at its head office in Montreal.

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FISHER/UNITECH Partners with Altium, Inc.

22 April 2013

[FISHER/UNITECH](#), a product lifecycle management solutions provider, has partnered with [Altium](#), an electronics design software company, to offer more options for the design and manufacturing industry. Altium is joining FISHER/UNITECH’s robust suite of product development solutions, making FISHER/UNITECH the only company in the Midwest with such a variety of solutions.

Altium is a unified system design solution targeting electronics design automation for FPGA, PCB and embedded systems design. It helps customers improve team collaboration, eliminate data movement bottlenecks and shorten time to revenue. Altium’s 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.

“We are excited to once again partner with a leading [SolidWorks](#) reseller in North America, FISHER/UNITECH, to provide maximum local representation and expertise to our growing customer base,” said Chris Donato, Director of Sales for North American, Altium, Inc. “Altium has now partnered with 3 major SolidWorks Resellers to also represent Altium products. We feel significant synergy between these companies and their ability to provide local expertise and knowledge. Moreover, FISHER/UNITECH’s PLM expertise allows us to significantly accelerate adoption of our Altium Vault Server Technology.”

“Altium Designer extends our solutions into the electronic design automation area and provides a great compliment to our other product development tools. We are looking forward to working with many of our customers to help them improve their electronics design process. We believe Altium offers a fantastic solution that will be very compatible with the other software they have invested in with us,” said Charles Hess, President, FISHER/UNITECH.

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GPC 2013: Closer Partnerships Take ZWCAD Products to New Heights

26 April 2013

[ZWSOFT](#) awarded its best partners at GPC 2013 for bringing ZWCAD products to new heights in the global market. The conference also witnessed ZWSOFT and its global partners grow stronger and learn

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from each other, reinforcing their position as the world's leading suppliers of CAD/CAM solution.

Growing Up Together with ZWCAD Global Partners

“Together, we are stronger” was indicated in the theme of this year's conference. ZWSOFT has developed [a stronger product mix](#) to meet diverse design needs together with global partners. By now, it has more than 150 partners in over 80 countries, contributing to the distribution and promotion of ZWCAD Family products. ZWCAD have been treasuring global partners, who offered great help to boost the development of its global business, making ZWCAD what it is like today.

Mutual Benefit for Both Global Partners and ZWCAD

ZW-France, one of the awarded partners at GPC 2013, has witnessed ZWCAD's rapid development in the French market. Even though things were not easy at the beginning, they managed to grow at a steady rate under fierce competition. They believed the market is driven by customers. In order to provide the most professional and updated technical support, they maintained close communication with ZWCAD to make sure they got the latest product information. ZW-France is also a major contributor who helps boost the evolution of ZWCAD. Every time when a new version is released, they always provide the fastest and the most detailed and systematic testing report. Their user feedbacks are essential reference for product upgrades, offering great help to improve the performance and quality of ZWCAD. It is under this mutual benefit that ZW-France successfully entered and expanded in the French market.

“As a software company to provide reliable solutions, we are always taking a careful and demanding attitude for our work to meet user's need,” said Patrick Miault, Director of ZW France. “Being responsible for our users and listening to them is our business philosophy.”

From Partnership to Friendship

Most of the partners have had excellent co-operation with ZWSOFT for years and become very good friends. At GPC 2013, ZWSOFT had a chance to host the friends at the cocktail party and thank-you banquet. ZWSOFT staff as well as overseas partners presented wonderful performances and had fun together, fully immersing themselves in the enthusiasm of the party. Partners also invited ZWSOFT members for a tour around the city, showing cordial hospitality that deeply impressed ZWSOFT members.

Kingdom Lin, General Manager of ZWCAD Overseas Business, said, “ZWSOFT cannot make so many achievements without our overseas partners. This year, I'm very delighted to see so many excellent partners like ZW-France making breakthroughs in the global market. Thanks for their contribution and we will make every effort to let them enjoy being part of the ZWSOFT family.”

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Infor's Delivery of New Products, Features, and Integrations Planned to More than Double in 2013

22 April 2013

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[Infor](#) today announced that significantly more products, features and enhancements, and integrations are planned to be delivered in 2013 than in any similar period in the company's history. The increased level of innovation results from an increase in planned R&D spending for the year, as well as the expansion of Infor's development organization since the company came under the leadership of its new executive team. In the last two years alone, Infor has hired more than 650 new software engineers and designers.

In 2013, Infor plans to introduce nearly 300 new products, including Infor 10x and Infor Ming.le, which is an increase of more than 150 percent over the previous year. In addition to new products this year, Infor plans to deliver at least twice as many features and enhancements and four times as many integrations to Infor and 3rd party applications through [Infor ION](#), the company's lightweight middleware platform, than in the previous year.

"For companies to thrive in today's business climate, they must be able to quickly and easily adapt to constantly changing business models and landscapes," said Charles Phillips, CEO of Infor. "Infor is again stepping up development so we can go 'faster together' with our customers, providing the next-generation business applications that will propel business to new heights of productivity and profitability."

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JETCAM Joins AutoDesk Developer Network

25 April 2013

JETCAM announced that it has joined the AutoDesk Developer Network (ADN). The move follows JETCAM's release of a free CAD interface for AutoDesk Inventor users.

Said Martin Bailey, General Manager for JETCAM International s.a.r.l.; "We are seeing a growing trend of mutual customers where there is a strong desire to automate. We've already put solutions in place to deliver this but wanted to formally strengthen our relationship with AutoDesk. Joining the ADN is the first stage of this, and we will be placing further efforts into integration between our products."

"Autodesk is excited about this new partnership with JETCAM that brings cutting edge sheet metal fabrication technologies to our manufacturing customers through close integration with Autodesk Inventor", said Jim Quanci, Director, Autodesk Developer Network. "Through this partnership, we look forward to tighter integration between JETCAM and other Autodesk products including Vault, PLM 360 and Fusion 360."

Existing users of JETCAM Expert with a current maintenance contract can log into JETCAM's download wizard and download the CAD interface.

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Maplesoft Celebrates 25 Years of Incorporation

24 April 2013

Maplesoft is celebrating 25 years of incorporation this year. In addition to celebratory events for staff, academic and technology partners, and customers, the company is making several contributions to promote math and science projects among high school and university students.

Throughout the year, Maplesoft is supporting numerous projects and competitions, with the aim of enhancing the study and use of mathematics. [Mathematics of Planet Earth 2013](#), [Who Wants to be a Mathematician](#), [FIRST Robotics](#), [SAE Collegiate Design Series](#), [NASA Tech Design the Future Contest](#), and [Sailbot 2013](#) are just a few of the Maplesoft sponsored competitions that encourage students to think creatively, and use mathematical and scientific tools.

At an anniversary event held at the company's headquarters, Maplesoft recognized the contributions of the company's founders and the team that invented the renowned Maple software – the world's most advanced symbolic computation engine. In commemoration of the company's roots in the University of Waterloo (UW), Maplesoft's CEO Jim Cooper presented the University with a Gömböc that has the unique serial number 1988, marking the year of the company's incorporation. A [Gömböc is a mathematics-based shape discovered in 2007 with the help of Maple](#), described as “one of the best ideas of the year” by The New York Times.

“This anniversary is a momentous occasion for Maplesoft, as it looks back and celebrates the ingenuity, creativity, and passion of the people who formed and moulded the company,” said Jim Cooper, President and CEO of Maplesoft. “Building on the bedrock of innovative and pioneering technology they developed, we have achieved significant success in the last 25 years. Maplesoft looks ahead with a deep sense of gratitude and commitment to its customers, partners, resellers, employees, and the community around us. Our technological expertise, combined with the enthusiasm and creativity of our people and the support of our partners, will help us shape the next 25 years.”

Since its origins as a research project in the 1980s at UW, Maplesoft has grown into a successful international corporation with offices and resellers covering nearly 100 countries. It is the core of a vibrant ecosystem that spans and connects the commercial engineering research and development community with academia worldwide. Maplesoft's core technologies include the world's most [advanced symbolic computation engine \(Maple\)](#) and revolutionary [system-level modeling techniques \(MapleSim\)](#). Maple introduced a radical change in the industry with its superior technical document and knowledge sharing capabilities, and changed the way people work with mathematics. MapleSim introduced a ground-breaking approach to multi-domain system-level modeling of engineering systems and has seen significant growth since its introduction in 2008.

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Simon Lee Heads SESCOI

22 April 2013

Vero Software has appointed Simon Lee as General Manager of the recently acquired SESCOI business. SESCOI develops and sells the premium brands; WorkNC, WorkNC Dental, WorkPLAN and WorkXPLORE.

Commenting on the appointment, Richard Smith, CEO of Vero Software, said: "Simon has very relevant and deep experience of CAM software. He will bring huge benefits to this business.

"As a user, customer, reseller and through many years developing international business, Simon will bring new energy and direction to the high quality team headquartered in Macon, France, and represented globally via a comprehensive network of subsidiaries and resellers."

Simon Lee added "I feel very privileged to be the new General Manager of SESCOI. Over the last few months, since the acquisition, I have been working closely with the SESCOI team and have been greatly impressed both with the quality of the product range and the ability and commitment of the SESCOI teams around the World.

"I very much look forward to working with all of the stakeholders to build an even stronger business in the future."

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Vector Software and Polarion Software Announce Strategic Partnership

22 April 2013

Vector Software, provider of dynamic software testing solutions for embedded systems, and Polarion Software, creator of enterprise scale web-based Application Lifecycle Management (ALM) solutions, today announced a strategic partnership to develop solutions that improve software Verification and Validation in regulated environments.

Polarion Software develops and markets competitively-priced fully integrated, web-based solutions for Requirements Management, Test Management/Quality Assurance (QA), and ALM that provide full traceability and transparency throughout the product lifecycle. Polarion Software's browser-based solutions improve the efficiency of product development and help organizations identify and mitigate risks, improve quality, and achieve compliance with safety, risk, and quality standards in record time.

Vector Software solutions provide development organizations the most complete and cost effective

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approach to managing the complexities of testing safety- and business-critical software. Vector Software's VectorCAST embedded software testing platform provides manageable and repeatable testing outcomes enabling organizations to improve productivity, reduce risk, and maximize ROI.

“Our leading solutions for Requirements Management, Quality Assurance, and ALM, optimally complement Vector Software’s advanced tools for automated software testing and continuous integration,” stated Michael Carey, President of Polarion Software. The combined offering delivers an unparalleled solution for ensuring quality, reliability, and compliance in the development of critical software systems.”

"We are delighted to partner with Polarion Software," said William McCaffrey, Vector Software Chief Operating Officer. "Our partnership with Polarion demonstrates our continued commitment to offer our customers best-of-breed solutions enabling them to implement an integrated multi-vendor development environment that meets their specific needs."

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Events News

AVEVA Sponsors Asset Integrity Management Summit 2013

22 April 2013

AVEVA announced today that it is an associate sponsor and exhibitor at the 8th Annual Asset Integrity Management Summit hosted by Petroleum Development Oman (PDO). The Summit takes place 12-15 May at the Grand Hyatt, Muscat, Oman.

AVEVA will showcase its software solutions for Owner Operators and engineering contractors (EPCs). Visitors to the AVEVA stand will be able to see demonstrations of the new AVEVA Everything3D, enabling Plant Design for Lean Construction, and AVEVA NET, for the consolidation and sharing of all project and asset information. In addition AVEVA will present ‘Maximising the Value of Digital Information from Design to Operations’ on Tuesday 14 of May at 11:45AM.

“Managing and assuring the integrity of both the digital and the physical asset is a challenge shared by both EPCs and Owner Operators throughout the lifecycle of engineering projects”, said Evgeny Fedotov, Senior Vice President, Russia, India & Middle East, AVEVA. “Just one example is the significant capital expenditure wasted as a result of poorly executed project information handovers. It is vital that data related to these assets be integrated and shared from initial design through to operations.”

“The Asset Integrity Management Summit is a fantastic opportunity for us to showcase our solutions for both Owner Operators and EPCs. Along with our presentation, we will be demonstrating how our

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business-critical software solutions are helping the process plant community work efficiently throughout the whole value chain, reducing cost and risk and improving data quality.”

AVEVA will present how its solutions can assist in managing design, construction, handover and operations more effectively and safely, from FEED through Operations. For more information visit www.aveva.com/events/aim.

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Delcam's Aerospace Software and Services on Show at Paris Air Show

26 April 2013

Delcam will promote its wide range of software and services for the aerospace manufacturing and MRO industries on the Midlands Aerospace Alliance stand at the Paris Air Show to be held from 17th to 23rd June. Delcam can help aerospace companies whenever they need to increase productivity, to reduce lead times or to improve quality and consistency.

The range of support from Delcam Professional Services is mainly intended to help any company whose own engineering resource is needed to maintain its existing operations. The services provided can vary from supplying extra design and programming resources when existing staff are overloaded, through to developing dedicated software to automate existing manufacturing methods or to establishing completely new turn-key processes for the manufacture of novel designs.

The Professional Services team cooperates closely with its clients to enhance their existing design and manufacturing operations, usually by using a combination of Delcam's software to develop specific solutions to the company's productivity and quality problems. The team often work with a network of suppliers of related technology, including machine tools, cutting tools and inspection equipment, to ensure that a comprehensive turnkey solution can be provided when required.

Many of the projects involve manufacturing process development work within Delcam's Advanced Manufacturing Facility, which is equipped with production-scale machining and inspection equipment. As well as allowing thorough validation of all Delcam software before its release, this facility provides an ideal opportunity for companies to test new processes or to produce short runs of prototype parts without any disruption to their day-to-day operations.

Comprehensive in-house testing of its programs on industrial-scale equipment is one reason why Delcam has been ranked as the world's leading specialist supplier of machining software and services by US analysts CIMdata for each of the past twelve years. To maintain its leading position, Delcam employs the largest development team in the CAM industry to develop a comprehensive range of systems for every type of machine tool, from simple lathes and 2D mills, up to the most sophisticated five-axis machining centres and multi-spindle, turn-mill equipment. The company also develops

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PowerINSPECT, the world's leading hardware-independent software for the measurement of components, prototypes and tooling against CAD data.

Delcam systems have been used, at some stage, on virtually every major aircraft programme in recent years. The company's customers have undertaken projects in all the various areas that go towards producing a successful aircraft, from developing more fuel-efficient engines, to manufacturing airframe components more effectively, and even in designing more comfortable and more attractive interiors. They have worked on all scales of project, from the manufacture of components for UAVs and helicopters up to the production of engines and airframes for the largest passenger and transport aircraft.

Delcam also supports a large number of MRO operations. These companies use Delcam systems to enable the fast, efficient repair or replacement of damaged components. By minimising design and manufacturing times, while maintaining the highest levels of quality, repairs can be completed as quickly as possible, so minimising the time-on-ground of the aircraft.

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Delcam Australia to Show Latest CAM Developments at AUSTEC

26 April 2013

Delcam Australia will demonstrate the latest developments in Delcam's complete range of CAM software at the TIMTOS exhibition to be held in Melbourne from 7th to 10th May. Programs on show will include PowerMILL for high-speed and five-axis machining; FeatureCAM for quick and easy feature-based CAM programming; the Delcam for SolidWorks integrated CAM system; and ArtCAM for artistic applications.

AUSTEC will be the first major exhibition for Delcam Australia, following the decision to formally open an official Delcam subsidiary after almost 25 years during which sales and support of Delcam software in the country was ably managed by local sales partner Complex.

The most important new option in the next release of PowerMILL will be the new Vortex strategy for high-speed area clearance. 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. Like other Delcam roughing strategies, Vortex toolpaths are calculated to give more efficient machining by following the shape of the part and so keeping air moves to a minimum.

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

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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, including lathes, mills and mill-turn machines. The main change to the 2013 FeatureCAM product family has been the introduction of three levels of 3D machining functionality. FeatureMILL 3D Lite is a new option offering single-surface machining with a basic range of strategies that provides an introductory product for companies moving into 3D machining for the first time.

Delcam for SolidWorks is a fully integrated CAM system for SolidWorks that combines the benefits associated with PowerMILL and FeatureCAM. It provides PowerMILL's exceptional speed of toolpath calculation, plus the advanced strategies for high-speed and five-axis machining, to ensure increased productivity, maximum tool life and immaculate surface finish, while also offering the same strong focus on ease of use as FeatureCAM. The 2013 release includes a new entry-level 3D milling option, plus many of the enhancements made to the 2013 version of FeatureCAM on which it is based. As a Gold Partner CAM product, it is, of course, fully compatible with the latest release of SolidWorks.

The new release of ArtCAM Pro will make it much easier to create complex designs, especially those that include repeated elements that are similar but not identical within the design. This new way of working, which is called 'Free Relief Modelling', allows previously-created reliefs to be identified and swiftly moved, rotated, rescaled and copied, either individually or as part of a group. The overall result is much more natural than simply duplicating a single shape across the design, while also being much quicker than modelling each item individually.

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Delcam CRISPIN to Show Shoe Design Software at Indonesian Footwear Expo

22 April 2013

Delcam CRISPIN will demonstrate the 2013 versions of its ShoeMaker software for 3D concept design of all types of footwear and its Engineer Pro programs for pattern development and grading at the Indoleather & Footwear Expo to be held in Jakarta, Indonesia, from 2nd to 5th May. The new releases incorporate extra functionality, revised options and an improved installation process.

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

New functionality for ShoeMaker 2013 includes user-defined flattening for Offset Concept Lasts (OCL), improvements to the last import with automatic detection of the centre lines, and better control for the positioning of image stencils, including a three-point alignment tool. There is a new Flattening

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Parameter File editing tool for adjusting specific aspects of the flattened formes, plus some additional fine controls to change the shape of the flattening.

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

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

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

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

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

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

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

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DMG / MORI SEIKI Offers Customized Productivity Workshops

26 April 2013

DMG / MORI SEIKI is offering companies the opportunity to participate in technology workshops, where delegates can share information about new manufacturing techniques.

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Steve Finn, Managing Director of DMG / MORI SEIKI says, “We have already run events for major aerospace companies and they have found them a valuable way of disseminating knowledge. In addition, we can bring our own experience and technical know-how to the events, which can offer a new point of view and alternative ways of solving manufacturing problems.”

Confidentiality can be a major issue in some industries, where components, and manufacturing processes have significant intellectual value, so DMG / MORI SEIKI is limiting attendance to groups of companies and delegates that are happy to share information with one another.

With the vastly increased range of products which DMG / MORI SEIKI can offer comes an even higher level of skill and experience amongst its employees. This has been learnt through the pooling of knowledge about machining solutions which the two companies provided before their integration. The solution sales approach applied by DMG / MORI SEIKI examines not only the immediate technical requirements of a customer’s products but also how installing new machinery and collaborative working will meet the long and short term business objectives of the client and his industry.

The workshops have a practical slant and are designed to suit the needs of the groups of companies involved. Steve Finn added, “The forums look at the complete manufacturing process so the remit can be very wide and include topics such as fixturing, CAD/CAM, tooling, flexible manufacturing, and the use of resources as well as the machining techniques themselves. By sharing information and methods, companies participating in the workshops can use the educational experience to raise productivity, quality and efficiency levels and reduce costs.”

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GibbsCAM 2013 to be Highlighted at EASTEC 2013

24 April 2013

Gibbs and Associates, developer of [GibbsCAM](#)[®] software for programming CNC machine tools and a Cimatron company, announced today that many of the new features and enhancements planned for GibbsCAM 2013 will be demonstrated at EASTEC 2013, in booth #5426, from May 14-16.

“We look forward to demonstrating the many new enhancements that will provide all GibbsCAM users incremental performance to the easy-to-use productivity tools they already enjoy,” said Bill Gibbs, president and founder of Gibbs and Associates. “Also, we are anxious to demonstrate some exciting new features designed to simplify programming and improve 5-axis milling in specialized applications. EASTEC should prove to be a great venue for partners and customers to preview these GibbsCAM 2013 features and enhancements.”

With the planned release of GibbsCAM 2013, Gibbs continues the tradition of incorporating powerful features with an easy-to-use interface. Among some of the features and enhancements to be shown at EASTEC are the following.

New Options:

- **Two 5-Axis Multi-Blade Options** – These simplify programming and machining bladed turbomachinery components such as impellers, blisks and blings. Specialized functions for roughing, blade finishing and hub finishing, with automatic tilting and linking, and full control of leading and trailing edges speed up programming, generate better surface finishes and reduce machining time.
- **5-Axis Porting** – This option will provide specialized functions to make programming faster and easier, and generate more efficient and smoother toolpaths for machining hollow parts that have significantly different shapes or sizes at each open end, or that have significant curvature from one end to the other, typical of engine exhaust ports, combustion chambers, manifolds and throttle bodies.

Key New Features & Enhancements:

- **Improved Support for Swiss-style Machining** – Rendering for toolpath verification and simulation will now include guide bushings and provide more accurate visualization of Swiss-style parts.
- **Mill Feature** – Users will be able to assign certain machining attributes directly to part features, allowing them to save and reuse knowledge-based-machining information for families of parts or similar-part machining. Handling new parts and part changes will be quick and easy, with a single mouse click.
- **Surface Flow** – Improved machining strategies for solids machining include an improved algorithm to handle most nonplanar fillets and other blended faces for better surface finish and smoother, more efficient toolpath.
- **Profiler Modes** – The Profiler, frequently used to inspect part models, find hidden features, and develop cross sections for turning or milling, will add slicing of spun bodies, silhouettes, and cylinders to its slicing function.
- **Drilling and Thread Milling Patterns** – Users will be able to place Drilling and Thread Milling in patterns. Pre-mill drilling of patterned milling operations will automatically recognize and execute Drilling and Thread Milling patterns.
- **Lathe Threading & Thread Whirling** – Users will be able to define lathe threads from any valid shape, including shapes that contain arcs or splines. Thread Whirling will accept arcs and splines as input, and generate threaded arcs as output.
- **Lathe Plunge Roughing** – Improvements to Lathe Plunge Roughing will result in toolpaths that remove more material, in less time, with reduced tool wear.

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LFM Software Exhibits at BIM Show Live 2013

23 April 2013

LFM Software, an AVEVA Group company, announced today that it is exhibiting at BIM Show Live 2013, taking place 30 April- 1 May at the Park Plaza, Westminster, London.

CIMdata PLM Industry Summary

LFM Software will showcase its open, turnkey software that can transform laser scan data into intelligent, tagged, as-built 3D plant models for the Building Information Modelling (BIM) market. LFM Software will showcase two new products at the show.

The enhanced LFM Server includes a completely re-implemented optional CAD link for BIM projects. The new LFM Operating Modes integrates the upfront laser scan data preparation tasks into a simple workflow that enables maximum productivity and flexibility. LFM Software helps to improve project collaboration, reduce time spent on site and minimise design risks.

'We look forward to showcasing our open, neutral software at BIM Show Live,' added Bruce Douglas, Senior Vice-President, EDS Strategy & Marketing, AVEVA. 'We are neutral in respect to the devices a scan can be captured with, and neutral in respect to the CAD and modelling technologies the scans can be uploaded to. Users have no restrictions in using LFM Software, ensuring they can select the best hardware and software for the job in hand.'

LFM Software supports the entire lifecycle of laser scan data – from capture, through initial processing, registration, referencing the scan data into BIM software, modelling and sharing the data with different users. Visitors to BIM Show Live can find out at Stand 16 why LFM is the software of choice for laser scanning service providers, designers, engineers and Owner Operators.

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Speakers Announced for the 13th FLOW-3D European Users Conference

25 April 2013

Flow Science announces the speakers for its [13th annual FLOW-3D European Users Conference](#), to be held on June 13-14 at the [Hotel Petit Palace Savoy Alfonso XII](#) in Madrid, Spain. Users throughout Europe, from both the commercial sector and academia, will present and discuss their work. An exciting lineup of speakers include Roche Diagnostics GmbH (Germany), Électricité de France S.A. (France), Sendekia (Spain), Form Stampi (Italy), and Antrametal (Turkey). Wave energy, aerospace, casting, microfluidics, coating, and hydraulics are among the represented application areas. Go here for a full list of [speakers and their topics](#).

This year's conference will begin with a general session featuring the latest developments for both the *FLOW-3D* solver and graphical users interface, presented by Michael Barkhudarov, VP of R&D and John Ditter, VP of Software Engineering at Flow Science. Attendees can then choose between two concurrent sessions that focus on casting and hydraulics applications. The second day of the conference will return to a general session format.

A half-day of free training will be offered the day before the conference and will focus on FlowSight™, *FLOW-3D*'s future visualization tool. Attendees can sign up for the training when they register for the

conference.

Registration

[Online registration](#) for the conference and free training is now available. Regular registration for the conference is open through May 24, 2013.

Exclusive Visualization Sponsor

CEI, the developer of the EnSight® suite of 3D visualization software, will be the exclusive visualization sponsor at the conference. CEI and Flow Science have partnered to make the power of [EnSight®](#) available to *FLOW-3D* users as FlowSight™, the post-processing and visualization tool of the future for *FLOW-3D*. A beta version of FlowSight™ will be unveiled at the conference.

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Stratasys Announces Plans for Analyst & Investor Day in New York City

18 April 2013

Stratasys Ltd. announced that it will host an Analyst and Investor Day in New York City. Stratasys management will host a series of presentations that cover industry trends, applications, strategy, financial performance, and outlook. The event will be held at the NASDAQ MarketSite in New York City on Thursday, May 23, 2013. Registration for the event, or access to a live webcast, can be initiated at the following web address: www.meetmax.com/SSYS.html.

Event Details:

Location: NASDAQ MarketSite
4 Times Square
New York City

Date: May 23, 2013

Time: 9:00 a.m. ET

Registration: www.meetmax.com/SSYS.html

Live Webcast: <http://www.wsw.com/webcast/ssys/>

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VERICUT at the Paris Air Show

25 April 2013

CIMdata PLM Industry Summary

CGTech will showcase its expanded range of software applications for the aerospace industry on stand 2B-F172 at the Paris Air Show, Le Bourget, Paris on June 17-21, 2013.

VERICUT Machine Tool Simulation Applications

CGTech's VERICUT is widely used in aerospace and defence to improve the efficiency of all types of CNC Machine Tools. VERICUT is CNC machine simulation, verification and optimisation software that enables users to eliminate the process of manually proving-out NC programs. VERICUT simulates all types of CNC machining, including Multi Axis Milling, Drilling and trimming of composite parts, water jet cutting, robotic machining and mill/turn Centres. VERICUT runs standalone, but can also be integrated with leading CAM systems used in aerospace including Dassault Systemes CATIA, Siemens PLM NX, Delcam PowerMill and Open Mind HyperMill.

VERICUT Composites Applications

Throughout the show, CGTech will be demonstrating VERICUT Composite Applications: VERICUT Composite Paths for Engineering (VCPe), VERICUT Composite Programming (VCP) & VERICUT Composite Simulation (VCS).

Visitors will have the opportunity to receive a thorough overview of the steps needed to get from a CAD designed composite part to CNC programs that drive automated composite machinery. There will be updated information on projects that highlight the implementation and use of machine independent off-line NC programming and simulation software for AFP machines including robot AFP cells.

In addition, CGTech will demonstrate its new programming and simulation software for Automated Tape Laying (ATL) by showcasing programming and simulation of an mTorres ATL machine.

VERICUT Drilling and Fastening Applications

VERICUT Drilling and Fastening is a new software application for simulating and programming auto-drilling and fastening machines. These machines are used to assemble large aero-structures and it is essential to avoid programming errors and collisions at such a late stage in the aircraft manufacturing process. VERICUT allows the user to programme drilling and fastener assembly operations in a virtual machine tool environment and provides simulation to check for a variety of potentially disastrous error conditions. Like all VERICUT software the new module interfaces to leading CAD/CAM/PLM systems such as Dassault Systemes CATIA and Siemens NX, and is independent of the assembly machine manufacturer.

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ZWCAD Family Shows Its Competence in Complex Design at GPC 2013

22 April 2013

ZWCAD Family, a series of CAD solutions including [ZWCAD+](#), [ZWCAD Touch](#), [ZWCAD](#)

CIMdata PLM Industry Summary

[Mechanical](#) and ZWCAD Architecture, were introduced at the recently concluded [GPC 2013](#). The more versatile product line enables CAD users to better address the diverse needs for general, mobile as well as professional design.

Faster Image Processing with New Raster Image in ZWCAD+ 2012 SP2

As the backbone product, ZWCAD+ has been well-received by many users. It managed to make achievements such as higher compatibility and stronger memory control with a brand new kernel. For [ZWCAD+ 2012 SP2](#), it realizes another great improvement in raster image, which allows faster image processing and more accurate display. Designers can fluently preview, insert and zoom big files without any delay. Even for images over 1G, it still responses instantly and operates smoothly, with every single detail of an image shown accurately after zooming and panning.

Fast Operation and Easy Synchronization with Cloud-based ZWCAD Touch

Besides satisfying the general desktop design need, the ZWCAD family extends to cover mobile design with [ZWCAD Touch](#), and therefore designing has been made more flexible with the fast operation response and easy sharing function anywhere and anytime. ZWCAD Touch enables users to quickly open and edit .dwg drawings and easily synchronize them to third-party cloud services. Moreover, the newly-added 3D view control function has greatly expanded the users' mobile design experience. ZWCAD Touch is gaining popularity, and making more users enjoy PC-tablet workflow, especially ZWCAD+ coupled with ZWCAD Touch.

ZWCAD Mechanical for MCAD and ZWCAD Architecture for AEC

[ZWCAD Mechanical](#), based on ZWCAD+, offers automatic design functionality for manufacturing design. It enables ZWCAD+ to reach a more specific and professional design field. Its working efficiency has been greatly improved with part library, which allows users to quickly draw standard parts with high precision and correctness. It also enables more flexible and simplified workflow by using intelligent balloon and dimensioning. In addition, the most commonly adopted international standards have been incorporated into ZWCAD Mechanical, helping solve increasingly complex demand of global manufacturing design.

The GPC 2013 ZWCAD family has also expanded its presence in architecture design field with the debut ZWCAD Architecture alpha version for the partners. With customizable AEC objects support and superior on-the-fly 2D/3D collaboration, it will bring the efficiency of architecture and construction design to new heights. The public version will soon be released.

In a bid to cater to the customers' specific needs, the stable and strong code-level API compatibility of ZWCAD+ allows developers to port their applications to ZWCAD+ more quickly and easily, and more than 50 world renowned CAD applications such as [ADDCAD](#) and [CADprofi](#) have been successfully ported to ZWCAD+. Designers and engineers now can choose the best tool for the job at hand and better respond to the changing design requirements.

The ZWCAD family has made major breakthroughs in both the depth and width of the product line.

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Except for a stronger ZWCAD+, ZWCAD Mechanical and Architecture can satisfy higher requirements from professional users, and ZWCAD Touch enables designers to work from any place and offers cloud-based workflow instead of the traditional one. It's obvious to see that a more competitive ZWCAD family has taken shape, offering CAD users more options to handle complex design from different levels and fields.

Follower to Innovator

“ZWCAD has been a good follower in the past, but that is not our goal for ZWCAD+,” said Kingdom Lin, General Manager of ZWCAD Overseas Business. “Our goal is to add more innovations to ZWCAD products to maximize the design value, making the products competitive, minimizing the cost, and creating more possibilities for customers.”

With diverse product lines and new design values, the ZWCAD family will be able to meet more design needs in general, mobile as well as professional design fields. The development of the ZWCAD family will bring more value, provoking new surprises for CAD users in their design.

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Financial News

Accelrys to Announce First Quarter 2013 Results on April 30, 2013

23 April 2013

Accelrys, Inc., announced it will report financial results for its first quarter ended March 31, 2013 after the NASDAQ Market closes on Tuesday, April 30, 2013. The Company will conduct a conference call and an audio webcast at 2:00 p.m. PT (5:00 p.m. ET) on the same day.

Conference Call Information

Domestic callers: 866-309-0459

International callers: +1-937-999-3232

Passcode: 35341784

Webcast information: <http://ir.accelrys.com/>

The webcast is also being distributed through the Thomson StreetEvents Network to both institutional and individual investors. Individual investors can listen to the call at www.fulldisclosure.com, Thomson/CCBN's individual investor portal, powered by StreetEvents. Institutional investors can access the call via Thomson's password-protected event management site, StreetEvents (www.streetevents.com).

A replay of the conference call, which can be accessed by dialing toll-free 855-859-2056 and outside the

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U.S. +1 404-537-3406, will be available beginning 5:00 p.m. PT (8:00 p.m. ET) on April 30, 2013 through 8:59 p.m. PT (11:59 p.m. ET) on June 30, 2013. The access code for the replay is 35341784.

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Atos: First Quarter 2013 Revenue

25 April 2013

Q1 revenue performance in line with expectations and all 2013 objectives confirmed

- Revenue: EUR 2,117 million; slightly down –1.2 percent organically
- Book to bill ratio: 94 percent
- Backlog: EUR 15.2 billion
- Net cash: EUR 258 million
- Free cash flow: EUR 30 million

Atos announced its revenue for the first quarter of 2013. Revenue was EUR 2,117 million, representing an organic evolution of -1.2 percent compared to the first quarter of 2012. Order entry was EUR 1,987 million leading to a book to bill ratio of 94 percent. Net cash stood at EUR 258 million at the end of March 2013.

Thierry Breton, Chairman and CEO at Atos said: “Our revenue in the first quarter of 2013 was in line with our expectations. We continue to apply a rigorous discipline to achieve our full year targets, increasing operating margin and free cash flow as guided. I am glad with the progress of the carve-out of Atos payment and merchant transactional activities which I anticipate to be completed by mid-year. Our innovative solutions position the new entity in the fast growing area of remote payment in addition to our core acquiring and processing businesses.”

Q1 2013 revenue performance

Revenue was EUR 2,117 million, representing an organic evolution of -1.2 percent compared to the first quarter of 2012. The four largest Business Units are the UK & Ireland and Germany with 19 percent of total revenue each, and Benelux and France with 11 percent each.

To view an unabridged version of this press release, visit: http://atos.net/en-us/Newsroom/en-us/Press_Releases/2013/2013_04_25_01.htm

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Cadence Reports First Quarter 2013 Financial Results and Completes Acquisition of Tensilica

24 April 2013

CIMdata PLM Industry Summary

Cadence Design Systems, Inc., announced results for the first quarter of fiscal year 2013.

Cadence reported first quarter 2013 revenue of \$354 million, compared to revenue of \$316 million reported for the same period in 2012. On a GAAP basis, Cadence recognized net income of \$79 million, or \$0.27 per share on a diluted basis, in the first quarter of 2013, compared to net income of \$31 million, or \$0.11 per share on a diluted basis, in the same period in 2012. GAAP net income for the first quarter of 2013 included a \$34 million income tax benefit due to a reversal of an uncertain tax position.

Using Cadence's non-GAAP measure, net income in the first quarter of 2013 was \$61 million, or \$0.21 per share on a diluted basis, as compared to net income of \$47 million, or \$0.17 per share on a diluted basis, in the same period in 2012.

“In Q1 we accelerated our IP strategy through key acquisitions that will expand the scope of our IP business and demonstrate our capabilities and readiness for FinFET-based high performance design, and we also saw significant strength in repeat orders for Palladium XP,” said Lip-Bu Tan, president and chief executive officer. “Looking ahead, I expect to see our focus and discipline in scaling our IP business start to show meaningful growth.”

“Strong execution by the Cadence team continued in Q1 as results for all key operating metrics exceeded expectations,” added Geoff Ribar, senior vice president and chief financial officer. “The Tensilica acquisition not only significantly expands the scope of our IP business, but also brings a growing royalty component to our revenue mix.”

To view an unabridged version of this press release, visit: http://www.cadence.com/cadence/newsroom/press_releases/pages/pr.aspx?xml=042413_financial

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Cimatron's First Quarter 2013 Results Release Scheduled for May 13th, 2013 before US Markets Open

22 April 2013

Cimatron Limited announced today that it will be releasing its first quarter financial results on Monday, May 13(th), 2013, before the US markets open.

Cimatron's management will host a conference call that same day, at 9:00 EDT, 16:00 Israel time. On the call, management will review and discuss the results, and will also be available to answer questions by investors.

To participate, please call one of the following teleconferencing numbers. Please begin placing your call at least 5 minutes before the conference call commences.

CIMdata PLM Industry Summary

USA: +1-888-668-9141

International: +972-3-9180610

Israel: 03-9180610

For those unable to listen to the live call, a recording of the call will be available from the day after the call under the investor relations section of Cimatron's website, at: <http://www.cimatron.com>.

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Dassault Systèmes Reports Solid First Quarter Results and Reconfirms 2013 Financial Objectives 25 April 2013

Dassault Systèmes today reports IFRS unaudited financial results for the first quarter ended March 31, 2013. These results were reviewed by the Company's Board of Directors on April 24, 2013.

Summary Highlights (unaudited)

- Q1 2013 financial results well in line with Company objectives
- Non-IFRS earnings per share up 10% to €0.78
- Net operating cash flow up 12% to €185.0 million
- Company reconfirms 2013 financial objectives
- Board of Directors proposes 14% increase in annual cash dividend per share to €0.80

“Our focus is on expanding our market with 3DEXPERIENCE and progressing towards the realization of our purpose. It is now very clear that customers see the high value of 3DEXPERIENCE in its ability to help them manage the complexity of their business in a comprehensive manner – in engineering as well as more broadly within marketing, sales and program management as illustrated by our new engagements this quarter,” commented Bernard Charlès, Dassault Systèmes President and Chief Executive Officer. “Therefore, 2013 is about accelerating our 3DEXPERIENCE strategy roll-out with an ambitious R&D delivery plan.”

“In addition to our Research and Development work, we have been furthering our expansion through targeted acquisitions to complement our industry solutions portfolio and, as our first quarter results demonstrate, we are making these investments while solidly delivering on our financial objectives.”

To view an unabridged version of this press release, visit: <http://a2.media.3ds.com/fileadmin/COMPANY/FINANCE/PDF/13Q1/Q12013-PR-Earnings-EN.pdf>

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EMC Reports First-Quarter 2013 Financial Results

24 April 2013

HIGHLIGHTS:

- Record first-quarter revenue, non-GAAP net income, non-GAAP EPS, operating cash flow and free cash flow
- Year-over-year revenue growth across U.S. and major global geographies, with solid revenue growth from BRIC+13 markets
- EMC reaffirms full-year 2013 business outlook for consolidated revenue and non-GAAP EPS

EMC Corporation today reported first-quarter 2013 financial results that were highlighted by first-quarter records for consolidated revenue, non-GAAP net income, non-GAAP EPS and operating and free cash flow.

First-quarter revenue was \$5.39 billion, an increase of 6% compared with the year-ago quarter. First-quarter GAAP net income attributable to EMC was \$580 million and first-quarter GAAP earnings per weighted average diluted share were \$0.26. Non-GAAP¹ net income attributable to EMC was \$850 million, an increase of 4% compared with the year-ago quarter. Non-GAAP¹ earnings per weighted average diluted share were \$0.39, an increase of 5% year over year.

During the first quarter, EMC increased operating cash flow and free cash flow² on a year-over-year basis to \$1.71 billion and \$1.44 billion, respectively. First-quarter GAAP and non-GAAP gross margins grew on a year-over-year basis, and the company ended the quarter with \$12 billion in cash and investments.

Joe Tucci, EMC Chairman and Chief Executive Officer, said, “EMC’s solid first-quarter financial results speak to the strength of our execution and the soundness of our strategy that offers customers greater efficiency, control, choice and agility. Our three federated businesses – EMC Information Infrastructure, VMware and Pivotal – are squarely focused on areas of IT that are expected to experience high growth over the next decade: cloud computing, Big Data and trusted IT. Each business is chartered to build its own technology and partner ecosystem necessary to succeed, while staying aligned to leverage one another’s strengths and to create value for our customers and shareholders. I am incredibly energized by the strength of our business model and the way we have positioned the company to lead this transformative era in information technology.”

David Goulden, EMC President and Chief Operating Officer, said, “EMC’s focus on cloud computing, Big Data and trusted IT helped drive solid revenue, non-GAAP net income and non-GAAP EPS growth in the first quarter. We believe EMC is extremely well-positioned to grow faster than the IT marketplace, produce leverage in the business and continue to innovate and evolve to capitalize on the opportunities ahead. Our first-quarter results are consistent with the full-year revenue and non-GAAP EPS outlook we provided in January, which remains unchanged. With continued steady execution, we expect that EMC will achieve our previously stated longer-term potential of more than \$30 billion in

CIMdata PLM Industry Summary

revenue in 2016 with non-GAAP EPS growth outpacing revenue growth during this timeframe.”

To view an unabridged version of this press release,
visit: <http://www.emc.com/about/news/press/2013/20130424-earnings.htm>

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ESI Group: 2012/13 Annual Results

25 April 2013

Highlights:

- Strong Growth in revenue attests to an offer aligned to challenges of industry
- Slowdown in growth on fourth quarter
- Continuation of investments aligned with growth strategy
- External growth objectives maintained

Alain de Rouvray, ESI Group’s Chairman and CEO, says: “With revenue totalling 109 million euros, spread over in more than 30 international subsidiaries, ESI Group has reached another milestone in its development. Nevertheless, the results published are below our expectations, impacted by an unexpected slowdown in growth at the end of our financial year and the continuation of M&A marketing and integration investments. The economic context leads to more cautious growth prospects and tighter control over operating costs. The Group’s fundamentals remain very solid, backed by good sales prospects. Moreover, within the framework of its development plan, the Group intends to continue pursuing its external growth strategy.”

To view an unabridged version of this press release, visit: <http://www.esi-group.com/corporate/finance/news/financial-press-releases/2012-13-annual-results>

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PTC Announces Q2 Results, Initiates Q3 Guidance and Updates FY’13 Targets

24 April 2013

[PTC](#) reported results for its second fiscal quarter ended March 30, 2013.

Highlights

Q2 Results:

- Non-GAAP revenue of \$315 million, up 4% year over year (up 5% on a constant currency basis)
- Non-GAAP EPS of \$0.41, up 38% year over year (up 44% on a constant currency basis)

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- Q2 revenue contribution from Servigistics (acquired on October 2, 2012) was \$21 million on a non-GAAP basis and \$20 million on a GAAP basis
- GAAP revenue of \$314 million and GAAP EPS of \$0.14, including a \$16 million restructuring charge

Q3 Guidance:

- Non-GAAP revenue of \$315 to \$330 million and non-GAAP EPS of \$0.40 to \$0.45
- License revenue of \$80 to \$90 million
- GAAP revenue of \$314 to \$329 million and GAAP EPS of \$0.22 to \$0.27
- Assumes \$1.31 USD / EURO and 100 YEN / USD

FY'13 Targets:

- Non-GAAP revenue of \$1,305 to \$1,315 million and non-GAAP EPS of \$1.70 to \$1.80
- License revenue of \$350 to \$360 million
- Non-GAAP operating margin of approximately 21.5%
- GAAP revenue of approximately \$1,302 to \$1,312 million and GAAP EPS of \$1.03 to \$1.13; GAAP operating margin of approximately 11%
- Revenue guidance assumes at least \$80 million contribution from Servigistics, including \$3 million in non-GAAP revenue
- Assumes \$1.31 USD / EURO and 100 YEN / USD

The Q2 non-GAAP revenue and non-GAAP EPS results exclude a \$0.7 million effect of purchase accounting on the fair value of the acquired deferred maintenance balance of Servigistics. The Q2 non-GAAP EPS results also exclude \$11.8 million of stock-based compensation expense, \$11.3 million of acquisition-related intangible asset amortization, \$15.8 million of restructuring charges, and \$2.1 million of acquisition-related expense. The Q2 non-GAAP EPS results include a tax rate of 19% and 121 million diluted shares outstanding.

To view an unabridged version of this press release, visit: http://www.ptc.com/appserver/wcms/standards/textsub.jsp?&im_dbkey=155027&icg_dbkey=21&lang=en

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Implementation Investments

Agile Frameworks, LLC Signs Olsson Associates for MetaField® Field Information Management System

23 April 2013

CIMdata PLM Industry Summary

Agile Frameworks, LLC, an independent software vendor (ISV) in the architecture, engineering and construction (AEC) vertical market, has signed a new client for its MetaField®, AgilePort® and AgileStamp® cloud-based solutions.

Olsson Associates, whose headquarters are in Lincoln, Nebraska, is a multidisciplinary engineering firm with more than twenty offices. Olsson employs more than 600 staff members who provide civil, surveying, structural, water/wastewater, power electrical, automation and technology, land development, landscape architecture, urban design and environmental services. Further, Olsson is experienced in water resources, geotechnical, construction observation, GIS, mapping, traffic, transportation, ITS, airport consulting, specialty lighting, mechanical/electrical and public involvement services.

Rick Hanny, vice president, stated, "We have been working with the people at Agile Frameworks for a couple of years, and, during that time, we grew very comfortable with their team and their products. We are excited to move forward with them and we look forward to realizing many benefits that include fast turnaround for all of the data that we are collecting on behalf of our clients."

MetaField, a mobile enterprise application platform (MEAP) is designed for engineering firms specializing in geotechnical, environmental, non-destructive engineering/testing and construction materials testing to perform onsite data collection. MetaField's emphasis on mobility optimization reflects the remote nature of the business, and accelerates the entire field data collection and report generation process in a more accurate way via smart phones or other mobile devices. A return on investment (ROI) of two to five months is typical, dependent upon the size of the firm and the number of field personnel and project management staff.

"We are excited to partner with the team at Olsson Associates. They are a large, regional firm with a great name and they have some very innovative ideas," stated Doug Bonestroo, vice president of business development for Agile Frameworks. Brian Hase, CTO of Agile Frameworks, added, "The team at Olsson Associates is committed to delivering leading edge services to their clients and we look forward to working with them."

For more information about Agile Frameworks, LLC and Olsson Associates, please visit www.agileframeworks.com and www.olssonassociates.com.

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ARC'TERYX Engineers Airbag Rescue System with Help from Advanced Design Technology

22 April 2013

[Advanced Design Technology](#) (ADT) today announced that its customer, [ARC'TERYX Equipment Inc.](#) (ARC'TERYX), the Vancouver-based outdoor clothing and sporting goods manufacturing company, hired ADT to assist in the design of an evolutionary avalanche airbag backpack system that will save lives while providing a far superior user experience via a battery-powered electric motor that inflates

CIMdata PLM Industry Summary

airbags instead of relying on compressed gas cartridges or cylinders. ADT optimized the blower system.

“I was initially drawn to ADT when looking for software to use in designing the blower,” said Gordon Rose, senior industrial designer for ARC’TERYX. “But, after contacting ADT and discussing the complexity of the project, we decided a much better solution was to use ADT’s design expertise and have them optimize the blower system.”

ARC’TERYX worked with London-based ADT to engineer the new avalanche airbag backpack using three-dimensional (3D) inverse design methodology, which now enables engineers to specify the desired flow field (via blade loading) along with the total work required and automatically generate the geometry that produces that flow field. By specifying the blade loading, engineers have direct control over the 3D pressure and velocity distributions, which allows for direct control of the 3D flow field and an intuitive connection between the design input and the resulting performance. This change allowed the engineers to explore a large part of the design space and arrive at the resulting breakthrough design.

Skiers, snowboarders, snowmobilers and hikers familiar with existing avalanche airbag systems can attest that current products, while dramatically increasing one’s chances of surviving an avalanche, can be expensive, cumbersome and difficult to use and maintain due to many reasons such as the need to refill cylinders and cartridges after each use and/or carry extra cartridges on trips and the need to empty cylinders when flying in the United States (U.S.) per U.S Department of Transportation (DoT) regulations. These and other onerous drawbacks to existing systems have been eliminated from ARC’TERYX’s design. (Click [here](#) for a link to a blog post about the product patent).

“Our 3D inverse design optimization technology provides innovative solutions while reducing development time and costs,” said Professor Mehrdad Zangeneh, founder and managing director of ADT. “By using TURBODesign1 on the ARC’TERYX avalanche airbag backpack air blower we could achieve their stringent requirements in terms of small size and high efficiency. Furthermore we could achieve a design which could meet contrasting requirements in terms of high pressure at initial deployment of the airbag and then high flow rate for rapidly filling up the bag.”

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CimatronE Supports 3D Printing Process for Production

23 April 2013

[Cimatron Limited](#) today announced that its customer, Sharon Tuvia (1982) Ltd., uses CimatronE in its Additive Manufacturing production process of making advanced products, targeted primarily at the aerospace, electro optical and medical industries.

Explains Mr Ronen Sharon, CEO of Sharon Tuvia: "Our Company specializes in manufacturing high-end metal products, meeting stringent demands of quality, precision, strength and low weight. Some

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products simply cannot be produced using traditional manufacturing methods and require the usage of laser melting additive manufacturing technology."

"We receive from our customers CAD files of their products, and use CimatronE CAD functionality to perform the necessary modifications and preparations of the model in order to make it 'printable'. Once 3D Printing of the part is completed, we use CimatronE NC to finish off the part by drilling holes and threads, and CNC milling of certain faces of the part to achieve the desired surface finish and accuracy."

"We are proud to have highly professional customers like Sharon Tuvia, who push manufacturing capabilities to the limit," said Danny Haran, CEO of Cimatron.

"It is through such cooperation that our products evolve, and we hope to develop more capabilities that would further help streamline hybrid production processes. We see great potential in using multiple manufacturing technologies, such as Additive Manufacturing (including 3D Printing), alongside more traditional technologies like milling and EDM, for producing complex and demanding parts," concluded Mr. Haran.

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Lantek CAD/CAM Heats up Coffee Making

26 April 2013

Coffee has an image of style and sophistication which is reinforced by the cool design of coffee machines. Birmingham company Fracino has been making coffee machines since 1963 and, with the help of Lantek's sheet metal CAD/CAM software, has implemented the latest laser cutting technology.

Fracino has a range of over 40 different machines and its success has been recognized at the EEF Future Manufacturing Awards where it won the Outstanding Exporter of the Year award and the National Winner of Winners award, while at the Essential Cafe Trade Awards it won the Manufacturer of the Year award. It even exports coffee machines to Italy!

The company decided it wanted to move its sheet metal manufacture in house and purchased an Amada Alpha III 3 kw laser. Paul Gurevitch-Beacock, Sheet Metal Manager, says, "Although this machine was pre-owned, it was a major investment for our company. I have had around nine years of experience with Lantek, working for a previous employer, and in my experience, Lantek Expert is both easy to use and efficient. Additionally, the company's staff are very helpful, so it was the obvious choice for Fracino."

The company uses Lantek Expert and Lantek Flex3d. Paul Gurevitch-Beacock adds, "We use SolidWorks and AutoCAD for our designs, which are continually evolving, and Lantek Flex3d works great with Solidworks, enabling us to get to a flat pattern with the touch of a button. For simple parts we can design directly in Lantek Expert which further increases our flexibility."

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With distributors in many countries around the world including Poland and Australia, Fracino manufactures around 3000 machines each year. Its customers demand innovative and stylish designs delivered on time and to a high quality, making the new sheet metal production facility a very important part of its business. Lantek has been able to enhance the performance of the Amada to help the company achieve its aims. Paul Gurevitch-Beacock says, “We cut a lot of plastic coated stainless and Lantek has provided us with a special routine, which was not available on the machine, to pre-pierce the sheet, which stops the plastic blowing up during cutting. Lantek also developed a capability which enables us to stop the machine between components for checking first offs and extra functions to allow us to skip over problem parts.”

As the company makes its own products it nests multiple parts of the same type on each sheet, achieving 80-90% material utilization rates. Furthermore, it uses offcuts for sampling and prototype applications, further reducing material wastage.

Paul Gurevitch-Beacock was pleased with the implementation of the Lantek software. “Once we had the laser installed, Lantek provided the postprocessor, connected the cables for communication to the machine, set the parameters and carried out test cuts. After we had been using the laser for a little while they returned to customise the postprocessor for us to provide the special functionality we needed. Their understanding of both the Amada and their own software made it a trouble free process.”

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MANGO Selects Centric Software as Strategic Product Lifecycle Management Solutions Partner

20 April 2013

MANGO has selected Centric Software, Inc. as its strategic partner for its product lifecycle management [\(PLM\) solutions](#).

“MANGO already is a knowledgeable user of PLM solutions and has a strong understanding of the productivity gains PLM systems can deliver,” explains Sergio Odriozola, MANGO’s product director. “Now, MANGO’s goal is to achieve benefits that extend beyond productivity, and deliver operating and strategic advantage.” To meet its strategic goals, including aggressive global growth plans, MANGO conducted an exhaustive search for a PLM solution partner to deploy worldwide. MANGO plans to deploy the Centric solution across users and external suppliers worldwide in Spain, Bangladesh, China, India, Morocco, Turkey and Vietnam.

“MANGO selected Centric as its strategic partner because of Centric’s demonstrated PLM product leadership, and its customer-focused culture and successful track record of innovation,” says Odriozola. “Strategically, Centric and MANGO share a similar vision in the development and use of PLM in the apparel industry. We feel comfortable that our two companies can grow and innovate together.”

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The multinational MANGO also chose to work with the Centric PLM suite because of its ease-of-use and simplicity, and because of Centric's unique focus on the fashion industry, according to Odriozola. "Centric's products and consultants incorporate a deep understanding of the business needs of the fast-fashion market in its software," he says.

"MANGO's current business and future strategies are exciting, and Centric is fully committed to this innovative leader's success," states Chris Groves, president and CEO of Centric Software. "I am delighted that MANGO selected Centric as its PLM solution partner, and look forward to a long and beneficial relationship."

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Vessix Vascular Prepared for Growth and Compliance with Empower PLM

24 April 2013

[Vessix Vascular](#) is a privately held, venture-backed company developing novel radiofrequency balloon catheter technology directed towards a variety of clinical applications including the treatment of medication resistant hypertension via percutaneous renal denervation, and peripheral in-stent restenosis.

This new technology has the potential to help the one in three adults in the world who suffer from hypertension—a condition that is more common than cancer, diabetes and coronary artery disease combined. Their newest product, the V² Renal Denervation System for hypertension, recently received CE Mark and promises to greatly simplify the renal denervation procedure.

Challenge/Situation:

Manual Product Development Processes

Vessix Vascular offers a unique approach to treating uncontrolled hypertension that is faster, easier to use and less painful for patients than any renal denervation system currently available in the market. Comprised of a group of individuals with previous experience at successful medical device companies, one of their first priorities was to formalize their product development processes to prepare for their market introduction, successfully meet regulatory guidelines and implement best practices early on.

As a small group, Vessix could 'get by' with their paper processes for managing engineering changes, product documentation, and Bill of Material (BOM) information but knew this process would not be effective as they grew—particularly where they needed to track engineering change history with full audit trails to meet regulatory requirements.

"Even as a start-up, we faced multiple challenges using a paper-based system to manage product revisions," stated Rinda Sama, Director of Operations and Quality for Vessix Vascular. "Documents would pile up on people's desks, which meant that items were not reviewed right away, causing delays, and many times by the time it was reviewed, the product was already in the next revision."

Goal/Strategy:

Implement Product Lifecycle Management Early On

The team at Vessix had previous experience with Product Lifecycle Management (PLM) software as a tool to automate product design and development processes. They wanted to implement PLM early on as a best practice for managing BOMs, engineering changes, product documentation, training records, and Corrective and Preventive Actions (CAPAs). “Implementing a solution early on prevents the company from being bogged down by legacy data and processes when transitioning to an automated system in the future and also helps to eliminate resistance to change from employees entrenched in those practices,” stated Mr. Sama. “Tools like Omnify that are affordable, already configured to meet the needs of medical device manufacturers and can adapt to a company’s processes make it easy to adopt PLM as a start-up and get off on the right foot.”

As they evaluated PLM vendors, they were looking for a solution that did not require huge backend support and that they could install on their existing servers. Omnify Software was recommended by a colleague at another medical device company using the Omnify Empower PLM system. “We looked at Agile due to previous experience with the software but found it to be very expensive and not quite what we needed as a start-up,” stated Mr. Sama. “After viewing a demo of Empower PLM we found the tool to be identical to Agile, and even better in some areas, but with a much more affordable price tag.”

Vessix selected the Empower PLM solution because it met their needs as a small start-up with an easy to use and configure system and also delivered the features they needed for controlled product development processes to meet compliance requirements. The scalability of Empower PLM ensured Vessix that they would be able to continue to use the tool as the company grew.

Customer Success:

Time to Process ECOs is Transparent

Empower PLM has supplied Vessix Vascular with a proven scalable solution as they have already grown from ten users to twenty-five. “Empower PLM is part of our day-to-day life at Vessix and the employees here love it,” commented Mr. Sama. Empower PLM addressed Vessix Vascular’s manual revision management issues by providing team members with the ability to see all Engineering Change Orders (ECOs) in real-time. ECOs no longer pile up on people’s desks. All of our product design and development processes are streamlined and viewable in a single snapshot and the time to process an ECO is transparent,” stated Mr. Sama.

“We converted the Vessix Approved Supplier List from a static Excel spreadsheet to a dynamic Omnify list,” said Joseluis Espinosa, Project Manager and Omnify Administrator at Vessix Vascular. “In this way, vendors are now able to be linked with individual parts and assemblies. Opening a vendor record displays every part acquired from them. Another advantage to dynamic vendor management is the simplicity with which secondary vendors are able to be qualified and linked to pre-existing parts.” Omnify Empower Vendor Management provides an additional layer of information not available through the legacy paper system. Similarly, all tools and equipment are now managed through the

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Omnify Empower Training Management Module in order to track calibration and preventive maintenance. “Since we have test and manufacturing equipment both in-house and offsite at various contract manufacturers, using Omnify Empower PLM for automated equipment tracking and maintenance has substantially increased our overall efficiency,” added Mr. Espinosa.

Prepared for Regulatory Compliance- ISO 13485 and CE Mark

Vessix Vascular is ISO 13485:2003 compliant, which specifies requirements for a quality management system. The company has already been through two ISO 13485 Quality System audits using the Omnify Empower PLM system. Prior to Empower PLM, they would have to find and print documents to pull for an audit. Now, they can quickly search in Empower PLM to show the necessary documents along with change history, who approved the change, when it was released, change justifications, and links to any other Omnify items relevant to that part.

The company recently received their CE Mark, which will allow Vessix to begin marketing the product throughout the European Union, making their Renal Denervation System available to the wider number of people suffering from drug-resistant hypertension. “Omnify PLM offers some subtle yet powerful advantages to the CE Marking application and review process,” stated Mr. Espinosa. “Design History Files and Phase completions were enhanced by citing project deliverables with dynamic links through the Omnify BOM structure, which increased the response speed when regulatory bodies inevitably requested more information. In addition, the web interface kept overseas employees in the loop with time-sensitive signoffs and item releases, and uploading legacy design documents en masse was a breeze, facilitating research into previous-generation projects to address regulatory concerns.”

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Product News

3D Systems Releases Geomagic Designer Packages

25 April 2013

[3D Systems](#) announced today the availability of the Geomagic® Designer software packages for creation of freeform and mechanical 3D designs that are perfectly tuned for instant 3D printing.

The Geomagic Designer Packages come in three levels: Core Designer, Advanced Designer and Expert Designer. Combining sculpting and solid modeling, each Designer Package incorporates Geomagic Design™, parametric CAD software, with Geomagic Freeform®, voxel modeling tools, to enable powerful, flexible and printable 3D design.

“These powerful software tools reinvent the engineer’s desktop, empowering designers to create without limitations,” said Ping Fu, Chief Strategy Officer for 3D Systems. “Now customers can access the intuitive tools they need to create complex, manufacturable designs and 3D print them instantly.”

The Core Designer Package includes Geomagic Design parametric CAD solution, Geomagic Claytools® for clay-style sculpting in 3D and a Geomagic Phantom Omni® haptic device that delivers

touch-based modeling.

The Advanced Designer Package includes Geomagic Design, Geomagic Freeform, a more advanced sculpting and voxel design solution, and a Phantom Omni haptic device.

The Expert Design Package includes Geomagic Design, Geomagic Freeform Plus, the most powerful sculpting, voxel design for manufacturing module, and a Geomagic Phantom Desktop® haptic device, delivering greater accuracy, freedom of movement and control.

Each package is priced and tuned to meet the needs of our broad spectrum of users. The Core Designer package is perfect for the intricate sculpting and design of small pieces for 3D printing, such as jewelry, whereas the high-end Expert Design Package provides the ultimate in modeling flexibility and manufacturability.

Information about all three Designer packages can be found at: <http://geomagic.com/en/products/freeform/designer>

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3D Systems Unveils Next Gen Full Color 3D Printers

22 April 2013

[3D Systems](#) announced the immediate availability of its new [ProJet® x60](#) series of full color 3D printers with an ability to print 90% of the colors available in Adobe® Photoshop® and new [VisiJet® PXL materials](#) utilizing 3D Systems' exclusive ColorJet Printing (CJP) technology. Feature rich with exceptional performance and value, the ProJet x60 offers enhanced functionality, utility and productivity, and will be on display at the *Inside 3D Printing Expo* in New York City, New York at the Javits Convention Center from April 22 to 23, 2013, in booth 102.

Built on the proven ZPrinter® platform, see how [the ProJet x60](#) combines the most comprehensive, capable and extensive features of 3D printers available today to further extend 3D Systems' range of addressable applications. Whether you need full-color models, precision verification parts or beautifully detailed assemblies that pass for finished products, the new ProJet x60 delivers. From striking architectural white to photo realistic pastels and bold vibrant color, these parts communicate design intent like nothing else can, quickly and affordably. And the new ProJet x60 professional printers offer new levels of productivity with faster print mode options, improved user convenience with mobile connectivity using tablet computers and smartphones, and more powerful coloring and file preparation software tools.

There are 6 new ProJet printer models:

- ProJet 160 – compact size, most affordable monochrome printing
- ProJet 260C– compact size, most affordable full color 3D printer available
- ProJet 360 – medium size, monochrome printing affordability

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- ProJet 460*Plus* – medium size, high-quality full color printing
- ProJet 660*Pro* – large format, premium-quality full color printing
- ProJet 860*Pro* – super-large format, premium-quality full color printing

“These exciting, next generation color printers embody 3D Systems’ commitment to democratize access to powerful and affordable 3D printing solutions for professionals, educators and consumers, alike,” said Michele Marchesan, Vice President and General Manager, Personal and Professional Printers for 3D Systems. “The new ProJet x60 series builds on our innovation heritage, leverages our expanded line of 3D content-to-print solutions and enables users to create more, faster.”

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Altair Partner Alliance Broadens Impact Analysis Scope with Addition of Crash Cad Calculate

24 April 2013

The [Altair Partner Alliance](#) announced today that [Impact Design Europe](#) has joined the program with its impact analysis tool, Crash Cad Calculate (CCC). CCC assists in the design and optimization of thin-walled cross sections of beams used in the creation of any crashworthy structure. CCC is applicable wherever the energy absorption of beam construction is crucial, including in the automotive, rail, and aerospace industries, among others.

"Joining Altair Partner Alliance is a great opportunity to help our product gain further worldwide exposure," said Agata Abramowicz Sokoll, CEO of Impact Design Europe. "Crash Cad Calculate is a versatile tool that can be applied to any structure that may endure a great impact, which we think will complement the existing crash analysis offering already within the APA."

Based on the macro element method, CCC provides a user friendly environment for effortless cross section design, requiring only a few seconds to perform the calculations. It also possesses the capability to edit the material each is made of, and compare the results. CCC comprises five segments: Cross Section Optimizer, Cross Section Editor (CSE), Cross Section Comparison Tool, Material Editor and Characteristics Editor.

The Cross Section Optimizer is used to identify the optimal geometry for a given cross section. The Cross Section Editor performs the necessary analyses to create the best crash performances possible, while using its numerous editing tools to easily modify that geometry. CSE also allows the user to design, calculate and optimize cross sections by yielding results in all six of the necessary categories, including:

- axial response;
- design recommendations;
- bending;

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- elastic properties;
- torsion response;
- lateral crushing; and
- denting.

The results of these calculations then can be compared using the Cross Section Comparison Tool.

CCC's Material and Characteristics Editors provide detailed definitions of material used in each segment of the cross section being developed. Each provides five groups of data, including material constraints, stress strain characteristics, strain rate characteristics, hardening factors and fracture indicators. The user also can create a personal material and characteristics library for use in future projects.

"Crash modeling and analysis are increasingly dynamic processes," said Antoine Poussier, Altair Vice President, Global Partner Programs. "Crash Cad Calculate adds to the robust capabilities Altair Partner Alliance provides to clients, and its wide applicability across industries makes it an ideal addition to the product portfolio."

Available for the last 12 years, Altair's innovative units-based licensing system allows [HyperWorks](#) users customizable access to a growing portfolio of applications, optimizing their return on investment (ROI) by making more than 28 in-house-developed applications available by use of a single pool of recyclable HyperWorks units (HWUs).

After experiencing this original licensing model's success, Altair has offered the opportunity for third-party companies to run their own applications under this unit-based system, a collaboration now known as the Altair Partner Alliance. The overall flexibility of these HWUs empowers users and allows them access to the largest and most complete suite of CAE applications available, making the benefits to participating HyperWorks customers infinite. The ROI increases for users each time a new application is added to the offering, since any of the partner programs can be accessed using the same leased HWUs they are already using to run HyperWorks. This makes more than 55 additional applications available at no incremental cost or long-term commitment.

HyperWorks users can download Crash Cad Calculate at www.altairalliance.com/impactdesign. To learn more about Impact Design or CCC, please attend one of the [introductory webinars](#), being held on May 23, 2013 at 9 a.m. and 1 p.m. EDT. These webinars will be hosted by Altair and presented by Impact Design.

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Arena Solutions Launches Spring 2013 Release

24 April 2013

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Arena has introduced a number of highly requested product features with the Spring 2013 release. Customers can control access to sensitive information and customize the PLM solution for improved visibility and increased accommodation of the user's specific processes throughout the product development lifecycle.

"The Spring 2013 release is the first in a number of steps intended to expand our market attractiveness," says Steve Chalgren, Arena's vice president of product management and strategy. "This feature roadmap offers customers new capabilities around IP control and better visibility into the product lifecycle. Arena helps companies ranging from fast-growing startups in need of a scalable solution to larger customers with sophisticated content management challenges."

The Spring 2013 release provides customers with the ability to control and isolate access to information between functional groups. Administrators can grant access to employees outside of Engineering (Human Resources, Marketing, Sales, etc.) and tailor their access so they only see items and files relevant to their specific roles — thereby enhancing independent, streamlined workflow processes all while protecting valuable IP.

"Arena allows account administrators to control and restrict employee and partner access to valuable or sensitive files and items in BOMControl," says Chalgren. "By providing administrators with the ability to control access to sensitive information, especially IP, companies are free to bolster collaboration amongst internal and external teams, providing them with the confidence that their data will be secure."

The configuration of Arena BOMControl gives customers the ability to accurately reflect each company's established and unique processes and nomenclature. The feature also provides managers with greater visibility to track and indicate the progress of items through all phases of a product's New Product Introduction (NPI) – from concept to new product introduction through end of life. "Because managers can now see product progress with greater granularity, they can make financial and business decisions quickly, accurately, and without lengthy investigation," says Chalgren.

Arena provides even the largest customers with the most robust cloud-based PLM solution in the market. "These new features deliver on the promise of cost savings and ease of implementation offered by cloud-based solutions," says Chalgren. "We help smaller companies scale while allowing companies of all sizes manage substitutions throughout the supply chain and get information out of the Arena system in a number of easy new ways. By broadening our ability to solve more complex problems for our customers— we are achieving a much deeper partnership with our customers."

To see more information about all the enhancements and new features in the Spring 2013 release please visit <http://www.arenasolutions.com/products/bomcontrol/whats-new-spring-2013>.

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ASCENT- Center for Technical Knowledge® Releases New Title: Autodesk Infrastructure Design Suite 2014: BIM Workflow for Roads and Highways

23 April 2013

[Rand Worldwide](#) announced that its courseware division, [ASCENT- Center for Technical Knowledge](#), today released the latest Autodesk Official Training Guide (AOTG) – *Autodesk Infrastructure Design Suite 2014: BIM Workflow for Roads and Highways*. This training guide is the first ever by ASCENT to integrate a suite of software so that planners, engineers-in-training, and civil and transportation engineers can immediately integrate workflows across the Autodesk software products to intelligently leverage the Building Information Modeling (BIM) process.

“As Autodesk suites include more software products with enhanced capabilities, the power of BIM workflows increases,” says Michelle Rasmussen, Senior Instructional Designer, ASCENT. “When Autodesk asked us to develop this training guide, the vision was to ensure the engineer could immediately start leveraging the full power of BIM using this robust software suite. To reach this goal, we knew we had to create a training guide that would connect the software pieces together so that the end-user could develop effective workflows that would dramatically increase their effectiveness.”

Comprehensive Training Guide

This unique training guide walks through an example of a workflow for a road and highway design project using Autodesk Infrastructure Design Suite Ultimate. Students will use Autodesk InfraWorks, AutoCAD Civil 3D, Autodesk Navisworks Manage, Autodesk 360, AutoCAD WS, and Autodesk 3ds Max Design to complete a road design project from project planning through visual communication and construction documentation.

Ideal for both individual self-study use and instructor-led classroom use, this guide focuses on teaching a workflow for designing roads and highways to help Autodesk Infrastructure Design Suite Ultimate users be more efficient, accelerate project approvals, and win more work. It is the only AOTG training guide that walks through the project oriented workflow using the multiple products of a software suite.

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Delcam Launches PowerMILL Robot Interface

24 April 2013

Delcam has launched the PowerMILL Robot Interface for the programming of robots for multi-axis machining operations. The earlier VB application that was developed for robot machining has been completely rewritten and fully embedded inside the company’s internationally-renowned PowerMILL CAM system as a plug-in.

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This approach makes it as easy to program a robot for machining as it is to program a five-axis machine tool. With the Robot Interface being a fully-associated application inside PowerMILL, users have access to all the multi-axis machining strategies within PowerMILL and can use all the system's project management options to manage, store and retrieve data.

To see how easy it is to use the PowerMILL Robot Interface, please go to www.delcam.tv/cnc-polystyrene.

The core functionality of the PowerMILL Robot Interface consists of three main steps: programming, simulation (including analysis) and creation of the robot programs.

Robots can be programmed for tool-to-part applications, making them ideal for machining large parts, such as composite panels that need to be trimmed, or for part-to-tool applications, such as grinding or finishing. The working area can be extended with linear tracks and rotary tables for even greater flexibility over the size and types of parts that can be manufactured.

The PowerMILL Robot Interface can then be used to simulate the complete machining operation and to control the robot's movements through different variables, such as axis limits, axis priorities and workplane constraints. Various aspects within the configuration of the robot cell, such as axis limits, tool constraints and home position, can be defined, and the simulation of the robot completed within those constraints.

The robot's working envelope can be displayed to optimise the position of the part or initial stock, and so give maximum access to the material. The maximum range of movements required of each axis can be viewed to analyse the robot's behaviour and movements throughout the operation.

Any issues that may prevent the toolpaths from being completed successfully are highlighted, with notifications of the robot potentially reaching axis limits, singularities and collisions. Graphs display the axis limits, wrist singularity and axis reversals, to give a better understanding of how the robot will move. Similarly, the acceleration and deceleration of the robot's axes are shown on time-based graphs.

Once the results of the simulation have been reviewed, and modified if necessary, the program can be output in the appropriate robot native language, for example for KUKA, ABB, Fanuc, Yaskawa Motoman or Stäubli equipment, eliminating any need for third-party translation software. Acceleration, smoothing values and other robot-specific parameters can be defined as part of the output. Full support for external axes, such as rotary tables and linear tracks, can be included, as well as dedicated tools for spindle calibration.

Overall, the PowerMILL Robot Interface helps users to get the most out of any robot type in the shortest possible time. The simplified workflow makes it easy to program, simulate, review and refine toolpaths, whilst also enabling the robots to achieve levels of accuracy similar to many CNC milling machines when cutting softer materials.

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EdgeAX Announces Apparel Product Life Management (PLM) for Microsoft Dynamics AX

23 April 2013

EdgeAX, a unit of Visionet Systems, Inc. is pleased to announce the general availability of its Apparel PLM Solution.

EdgeAX PLM is a Product Lifecycle Management (PLM) solution embedded in MS Dynamics AX 2012 that harnesses the unique power of AX. It helps companies accelerate product innovation and maximize product profitability through robust management of the information, processes and decisions about their products across the enterprise and the global product network.

EdgeAX PLM provides powerful seasonal line planning with precise specification packages that speed up business collaboration with vendors all around the world. It also provides seamless out of the box integration with the downstream supply chain processes to enhance business performance.

The SharePoint based enterprise and designer portals facilitate collaboration so that business users can realize the potential of their ideas and enhance their brand's value. The business and product teams can seamlessly work together to proactively react to the market demands and increase their speed to the market. The integration of enterprise and designer portals with powerful business intelligence tools provides focused insights into product trends, process management, supplier performance, profitability, cost optimization and product line analysis.

EdgeAX PLM is designed by a team which has been serving the apparel and retail industry for over fifteen years. The solution handsomely integrates with other Dynamics AX based systems. "We have designed a tight footprint for quicker and easier installs for our partners and customers. The total cost of ownership is kept at a manageable level so that organizations of all sizes can benefit from this next generation collaborative PLM system", said Rosetta Gyimesi, EVP of EdgeAX.

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Encouraging Start-up Businesses in Plant Engineering and Factory Layout

24 April 2013

Plant engineering software developer CAD Schroer has just announced its programme in support of start-up engineering design companies, which will be able to deploy the MPDS4 plant design and factory layout software suite at 10% of its normal cost.

Big Hurdles for Small Engineering Firms

In the current economic climate, engineering start-ups face big hurdles. While the right software tools are essential, bank loans are hard to obtain, and small firms do not have the bargaining power that leads to big software discounts.

“Start-up and self-employed engineers often write to bemoan their lack of leverage with CAD systems providers when they only require one or two seats of a plant design system,” says CAD Schroer account manager Sergej Schachow. “That’s made us think. After all, it is in our interest to encourage small business. Customer loyalty is one of our strongest assets, and creating that loyalty means sharing technology and expertise to create long-term opportunity for growing firms.”

Wrong Tools Come at a High Cost

CAD Schroer says that the right technology for process and production engineers will pay big dividends quickly, helping to grow the business through early competitiveness, whereas the wrong tools will squander a start-up’s competitive advantage.

“Engineers setting out on their own in the niche plant and factory design sector can offer real flexibility and low rates to clients. That’s their competitive edge,” Sergej says. “On the downside, it’s easy to squander this advantage by using low end software not specifically developed for large-scale engineering layouts.” Restrictions on the size of plants; a lack of interference or consistency checking for quality control; difficult design editing; and a lack of automation, integration or visualisation often mean that start-ups put in huge amounts of design time free of charge in order to win and keep contracts.

The Right Tools at Low Cost

“That’s not sustainable,” Sergej says. “We want to enable start-ups to use the right, scalable solution from the beginning. With 90% off MPDS4 plant design and 50% off technical support for those in their first year of trading, we’re giving new businesses a solid foundation on which to thrive.”

To find out more about 3D plant design and 2D to 3D factory layout with MPDS4, visit:

www.cad-schroer.com/plantdesign/pk/209

Details of CAD Schroer’s start-up discount can be found at:

<http://www.cad-schroer.com/Software/MPDS4/1/1486/pk/209>

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Granta Releases CES EduPack 2013 for Materials

24 April 2013

Granta Design announced that [CES EduPack™ 2013](#) is ready for shipment, providing educators with updated software and teaching resources as they prepare lectures, project work, student exercises, and course handouts for next academic year’s undergraduate teaching. The new version of this teaching

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resource for materials in engineering, science, processing, and design has a particular focus on interdisciplinary teaching. There are also new ways to get students started quicker, enhanced search capabilities, and more data and resources for advanced teaching.

CES EduPack 2013 is a common resource across all years of study in a wide range of materials-related courses (from mechanical engineering and materials science to more specialist areas such as sustainability, aerospace, or polymer sciences). Now used at [over 800 universities and colleges worldwide](#), CES EduPack combines comprehensive materials information, specialist software to access and use that information, and extensive supplementary teaching materials.

For many universities, sustainability is a common thread linking these courses. In CES EduPack 2013, a new [Sustainability Database](#) helps students to explore the social and environmental factors that must often be considered alongside engineering equations when making material choices.

At this year's CES EduPack Short Courses, held in recent weeks at [Philadelphia University \(PA\)](#) and [Cambridge University \(UK\)](#), participants previewed the new software. The courses included widely-praised lecture units which are now being shared with the materials education community through [Granta's Teaching Resource Website](#). This is accessible to all educators who use CES EduPack. The lectures join hundreds of exercises, teaching aids, and background papers developed at Granta or contributed by university and college teachers. Some of these resources are available as 'open access resources'. The resources are valuable to anyone constructing a materials-related course, particularly those charged with integrating materials modules into related disciplines.

Feedback from the CES EduPack community of over 5,000 materials educators, including short course participants, plays a key role in driving ongoing developments. This feeds into Granta's innovation program, guided by Granta co-founder, Professor Mike Ashby of Cambridge University. An example of this user-focused innovation is the significantly-improved search engine in the CES EduPack software. This is not only faster, but has been further optimized for materials data—for example, to handle variations in expressing material designations. Course attendees also appreciated improvements to usability such as a new start-screen, which gives students quick access to the right information for exercises and project work, and the ability to watch video tutorials on YouTube.

For more advanced teaching, CES EduPack 2013 offers new information to support study of heat treatment and other means of improving the performance of metals. The [Hybrid Synthesizer](#) tool, which aids teaching about composites and other hybrid materials and structures, includes new predictive models and enables users to add their own models – aiding investigation of key technologies in the topical area of lightweighting.

“Educators appreciate gaining access to both the latest software and many updated teaching resources well in advance of the new academic year,” comments Prof. Mike Ashby. “This allows them to get ahead in their preparation, enabling great lectures, classroom-based teaching, and student-led exploration and evaluation of materials and their applications.”

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Users of CES EduPack 2013 with a license entitling them to an update will receive their new version during May.

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Infor Announces Cloud Initiative using Amazon Web Services to Tackle Big Data with Amazon Redshift

22 April 2013

[Infor](#) announced Infor Sky Vault a big data initiative that leverages [Infor ION](#), micro-vertical expertise, and beautiful dashboards developed by Infor ION BI experts and designed by Hook & Loop, Infor's Manhattan-based in-house design agency.

Corporate data is fragmented across diverse commercial, legacy, and custom applications. Using ION, customers can extract transactions formatted in industry standard XML documents and send that normalized data to the cloud for further analytics, helping them obtain meaningful insight to drive faster, better business decisions.

Recognizing these challenges, Infor is using Amazon Web Services (AWS) to enable customers to accelerate time to insight from various transactional data streams. Among the planned features of Infor Sky Vault are:

- Pre-built, domain-specific business analytics, reporting and dashboards powered by Infor ION BI that incorporate industry and role best practices built on Infor ION Business Vault
- Cloud-optimized data repository powered by Amazon Redshift to more quickly, easily, and securely go-live and scale as data volumes grow
- Industry-leading workflow and integration platform with Infor ION to support application interoperability and data transition between on-premise and cloud
- Services from Infor Consulting Services to XML enable applications via the 'ION Factory,' which provides for rapid development of integrations to third party and custom systems and applications

Infor Sky Vault is planned to launch in the second half of this year with pre-defined content for Sales, Finance, and Production. Additional functional areas and industries will be added in subsequent iterations.

To help get customers started, assessment services will be offered in conjunction with Sky Vault to determine how fast customers can go from data to insights. Packaged services will also be available to integrate additional third party and custom applications.

"Companies want actionable intelligence from their data and they need it fast and at a reasonable price

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point," said Steve Moroski, SVP, Platform Technologies, Infor. "The Infor Sky Vault initiative will focus on the relevant components to deliver insight: fast integration, parallel databases, cloud economics, speed to value, industry insight, and beautiful user experiences. This is the formula for fast and broad adoption, where customers can get consistent, accurate, and useful data fast - in weeks not months or years."

"We designed Amazon Redshift to be fast, inexpensive, easy to use and secure and we've seen strong interest and adoption from customers," said Terry Wise, AWS Director of Worldwide Partner Ecosystem. "We're excited to help power Infor Sky Vault, a unique offering that will help customers extract value from critical business transactions."

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Infor Unveils Next-Gen Enterprise Collaboration Platform, Infor Ming.le

22 April 2013

[Infor](#) announced Infor Ming.le, a comprehensive platform for social collaboration, business process improvement and contextual analytics. Infor Ming.le is embedded within key systems like [ERP](#), [Supply Chain Management](#)(SCM), [Human Capital Management](#) (HCM), and [Enterprise Asset Management](#)(EAM), so employees across all areas of the business can communicate and collaborate, and easily follow people, assets, and processes relevant to the task at hand. Information such as documents, plans, photos, and videos are maintained in a centralized location with relevant activity captured to allow easy access by those who need it.

A 2012 report by the McKinsey Global Institute found, "The average interaction worker spends an estimated 28 percent of the workweek managing e-mail and nearly 20 percent looking for internal information or tracking down colleagues who can help with specific tasks." Infor Ming.le offers a user experience that resembles the most widely-used consumer social networking tools to help deliver relevant data to employees, connect colleagues by functional responsibility, and reduce reliance on less efficient processes like email. Through Infor Ming.le, users are able not only to talk about work issues, but to solve them directly in the application, which can lead to an increase in productivity.

Infor ION Technology is the Foundation for Infor Ming.le

[Infor ION technology](#) connects Infor and non-Infor applications, storing information in a common format and repository. Based on OAGIS standards, all applications using ION publish in XML, the language of the internet; and every business event or transaction processed within the ION technology produces an XML document that is stored in the Business Vault, a reservoir for transaction data from multiple business systems enabling more flexible, powerful reporting, business intelligence, and analytics. Infor Ming.le leverages the power of ION to help unify business applications and their data into a single intuitive interface that is as easy to use as Facebook or Twitter.

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Harnessing the "Internet of Things"

Infor Ming.le extends beyond traditional collaboration tools by connecting users to virtual representations of business objects, machines, and data in addition to colleagues. Identified objects, ranging from purchase orders to power generators, provide real-time updates to interested parties across the organization directly through the application. Users can subscribe to these updates, receiving an alert upon every action and interaction related to the object, with each stored in an auditable trail in the feed.

Building a Business Social Graph

Infor Ming.le connects structured and unstructured processes, taking information contained in applications, including HCM, to connect employees to their functions and responsibilities, enabling others in the organization to identify contacts quickly and easily. Because the platform is integrated to the data in the application, as users interact with Infor Ming.le, a map of the relationships between employees and business objects is created, forming a business social graph. This graph can improve productivity and collaboration by eliminating the need for employees to seek out colleagues to help with business situations.

Capturing Vital Corporate Knowledge

With speed a critical factor in today's business environment, employees have increasingly turned away from email toward instant messaging platforms, which provide faster response times but are less effective at storing conversations for later retrieval. Infor Ming.le captures vital corporate knowledge that can be lost through email and instant messaging, tracking communications transparently in the context of business processes and providing a clear audit trail.

Infor Ming.le - an Example

A sales executive at a manufacturer of disk brakes and pads receives a rush order from a major automotive OEM. He enters this into Infor Ming.le and receives an alert that the order will not be able to be fulfilled in the timeframe requested by the customer. Embedded intelligence in Infor Ming.le also shows that the OEM is one of the company's top three customers.

Because Infor Ming.le draws information from multiple applications into a single platform, the sales executive is able to directly view the production schedule and see that maintenance work on a large piece of equipment is causing the delay in fulfilling the order. Wanting to please a top customer, but not knowing who in the company handles production scheduling, he shares the purchase order with a message through Infor Ming.le to the production group.

Infor Ming.le, knowing who at the company is responsible for production scheduling at the plant assigned to this order, alerts the production manager directly in her Infor Ming.le feed. The production manager sees that the scheduled maintenance is preventative in nature and adjusts the schedule so it can be conducted once the order is complete. This triggers an alert back to the sales executive who lets his customer know that the order will be delivered on time.

Through Infor Ming.le, the sales executive and production manager were able to solve a critical business

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issue despite not knowing each other, in a matter of minutes. In addition, all actions and interactions were transparent to all users and saved to the original purchase order providing a clear audit trail. What previously may have been an impossible or lengthy task was solved quickly and efficiently through Infor Ming.le.

Comments about Infor Ming.le

"Users will notice a stark difference between the new apps and the old apps. When apps begin with user design instead of engineering, the end users benefit," said Ray Wang, principal analyst and CEO, Constellation Research.

"A big area of differentiation for Infor moving forward is changing the experience of how people use software to make it more beautiful, elegant, and intuitive," said Rebecca Wetteman, vice president, Nucleus Research. "For Infor, this is not just about wrapping a better user interface around functionality but taking a more holistic approach to how users engage with the application in a linear process." "We believe Infor is coming to market with the right product at exactly the right time," said Peter Goldmacher, Cowen & Company.

"One of our biggest challenges was connecting our processes to deliver information to make informed decisions with correct and up to date information. Integration is a key part of our system functionality and using ION to integrate our processes and Mongoose to build scalable applications quickly and securely gives us the ability to make changes quickly and know that our processes are working to give us information when we need it," said Luke Rains, system development director, Preferred Sands. "The addition of Infor Ming.le to tie the ION and Mongoose processes together provides a cohesive platform for exceptional decision making."

"In early 2012, Ring found itself in a situation where we had numerous custom applications that required support. Most of these were simply notifying a user of a situation or an approval workflow process. This support was very time consuming. Around this same time, we needed to upgrade several operating systems/equipment. This upgrade would require many of our custom applications to be re-written. Rather than spending the time to re-write custom applications, our executive staff challenged us to replace custom applications with solutions from our core applications (LN/PLM/CPM) if possible. We wanted to use the existing functionality of our core applications to their fullest and it was clear we weren't. We quickly saw Infor Ming.le, Workspace and ION as the answer," said Kevin Williams, senior business analyst, Ring Container Technologies

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Intergraph® Releases CAESAR II® 2013 with Updated Piping Codes, Enhanced Integration with SmartPlant® 3D and New Japanese Interface Capabilities

24 April 2013

Intergraph® has released CAESAR II® 2013 with significant new and extended capabilities, including an enhanced interface for SmartPlant® 3D model import/export; new Japanese interface, seismic code and

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spring hanger database capabilities; and updated ASME B31.3, B31.3, B31.8, B31.9, and Z662 codes. CAESAR II 2013 also provides improved model manipulation, editing and annotation capabilities, plus improvements to standardize development and testing to meet ASME NQA-1 requirements.

CAESAR II provides users a fast and customizable interface with Intergraph's plant, offshore and material handling design solutions, SmartPlant® 3D, SmartMarine® 3D and SmartPlant 3D Materials Handling Edition, collectively known as Smart 3D, and SmartPlant® Review, Intergraph's problem-solving 3D visualization tool. CAESAR II also provides seamless integration with CADWorx®, Intergraph's AutoCAD®-based plant design solution.

These interfaces allow for the easy import and export of pipe stress analysis results between CAESAR II and Smart 3D, SmartPlant Review or CADWorx for faster incorporation of analysis changes during a project design, allowing designers and engineers to share information seamlessly in a collaborative work environment. This can identify and reduce errors, reduce project risk and save time and expense for all stakeholders.

"CAESAR II continues to provide comprehensive pipe stress analysis codes, enhanced engineering analysis applications for global engineering solutions, advanced modeling tools, and seamless integration between CAESAR II and our Smart 3D, SmartPlant Review and CADWorx plant design solutions," said Patrick Holcomb, Intergraph Process, Power & Marine's executive vice president of global business development and marketing. "This information sharing between the pipe stress engineer and piping designer reduces errors and lowers customers' capital expenditures."

To learn more about CAESAR II 2013 and view a webinar about this version, visit <http://coade.typepad.com/coadeinsider/2013/01/caesar-ii-2013-now-released.html>.

For more information on CAESAR II and other Intergraph analysis products, visit www.intergraph.com/ppm/analysis.aspx.

Intergraph CADWorx & Analysis Solutions (CAS) products allow design and engineering to share relevant information seamlessly, thereby maintaining accuracy and improving efficiency. They include CAESAR II; CADWorx Plant Design Suite for AutoCAD®-based intelligent plant design modeling, process schematics and automatic production of plant design deliverables; CADWorx DraftPro™ for intelligent 2D design and layout; PV Elite® for vessel and exchanger design and analysis; and TANK™ for the design and analysis of oil storage tanks. For more information on Intergraph CAS, visit www.coade.com.

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MecSoft's Compatibility with 3D Systems' Geomagic Design

25 April 2013

MecSoft Corporation has announced their CAM software is compatible with 3D Systems' Geomagic

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Design 2013.

Last week 3D Systems released Geomagic Design 2013, their first release since rebranding Alibre Design as Geomagic Design. After extensive testing, MecSoft's Support Department has verified that Alibre CAM 3 is fully compatible with Geomagic Design 2013.

“As a fully integrated CAM solution partner for 3D Systems, MecSoft is committed to supporting their latest product offering,” stated Uday Honnalagere, Support Manager for MecSoft. “With our most recent service release, Alibre CAM 3 is fully certified to run inside Geomagic Design 2013, while continuing to maintain its compatibility with Alibre Design 2012.”

MecSoft's reputation for great support remains strong with their commitment to always providing compatibility for their companion products.

For more information, please visit mecsoft.com or call (949) 654-8163.

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Mentor Graphics Accelerates SoC and Embedded System Delivery with a Native Embedded Software Environment for Pre- and Post-Silicon Development, Embedding QEMU, SystemC and Emulation
22 April 2013

Mentor Graphics Corporation today announced release of the Mentor® Embedded [Sourcery™ CodeBench Virtual Edition](#) product, a native software environment for developing embedded systems pre- and post-silicon. Now, ever-expanding teams of software developers can remain in their core development environment and develop, debug, and optimize their complete software stack on [virtual prototypes](#) and [emulation platforms](#), before and after first silicon.

“Software development and hardware development are deeply intertwined, yet intensely unique disciplines. Asking a software designer to use a hardware design tool is like asking a plumber to install your sink with an electrician's wire cutters,” said Glenn Perry, general manager of Mentor Graphics Embedded Software Division. “It's critical to respect the uniqueness of each discipline and we believe our Sourcery CodeBench Virtual Edition delivers a true native software environment that deeply leverages our hardware design tool technology.”

The [Sourcery CodeBench](#) technology is the leading development toolchain and integrated development environment (IDE) for embedded Linux development, which is now the de facto standard reference operating system (OS) on all SoCs. The Sourcery CodeBench Virtual Edition product embeds the most advanced pre-silicon technology available from the hardware design tool flow, deeply into the native software environment. This yields a significant time-to-market advantage for software development teams by eliminating the valuable time and effort spent learning unfamiliar traditional hardware design

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tools. The Sourcery CodeBench Virtual Edition tool goes beyond enabling software development ahead of silicon to offer unprecedented visibility into hardware/software interactions, otherwise unavailable through the limited debug interfaces in actual hardware.

True Native Software Environment – The Key Differentiation

Mentor's 15-year investment in embedded software has yielded findings concurring that most software developers will not adopt hardware design tools even if they have been enhanced and/or interfaced to software tools. After acquiring CodeSourcery in 2010, Mentor Graphics modified the leading embedded development environment by embedding hardware design intelligence directly into the native environment. Conversely, the traditional EDA industry approach has seen limited success by attempting to modify hardware tools for use by software developers.

IP and SoC suppliers can speed time-to-market for their downstream customers by providing embedded software development capability, including software development kits (SDKs), before silicon. The same native software development environment can then be used downstream in the design flow alongside virtual platform representations provided by systems companies and OEMs to design and develop embedded systems ahead of silicon availability. Embedded developers can simply transition to actual hardware with the same Sourcery CodeBench native development environment.

Early Software Integration is Critical

By bringing software integration into the early pre-silicon phases, the Sourcery CodeBench Virtual Edition speeds product delivery and improves hardware and system quality. This helps ensure hardware is tuned and optimized to the end-application, and that the software is ported and integrated efficiently. Such deep visibility enables post-silicon bug tracking that is impossible to identify with physical boards. Relevant capabilities of this edition include:

- Non-intrusive visibility and tracing for memory-mapped registers and deep hardware states, including CPU internals, memories, cache and fetch sequences
- Tightly controlled system execution, such as stopping all system clocks instantly, and cross debugging hardware and software execution
- Trace and debug of complex hardware/software interactions deterministically with the ability to set breakpoints on any software or hardware object
- Simulation APIs with semi-hosting and direct access to the target file system for host-target file transfers
- API and backdoor access for testability and non-intrusive software code injection

Sourcery CodeBench and Sourcery Analyzer for Fast System Analysis

The Sourcery CodeBench Virtual Edition environment includes the [Sourcery Analyzer](#) tool to quickly visualize and analyze system data. This product provides application and kernel level insight and supports a broad array of time-stamped data formats such as the Linux Trace Toolkit (LTTng). By visually showing how processor cores and system resources are being used, it enables embedded developers to quickly identify bottlenecks in order to debug or decode these problems. By applying trace points anywhere in the application, developers can visually identify the critical section of software code

impacting system performance.

The Sourcery CodeBench Virtual Edition product is integrated with the [Mentor Graphics® Vista™ platform](#) for early abstract functional models of the hardware even before the hardware design is implemented in register transfer level (RTL). The Vista platform supports industry standard SystemC/TLM 2.0 virtual prototypes and QEMU machine emulators.

The new Mentor Embedded Sourcery CodeBench Virtual Edition is available now for evaluation. Contact your local Mentor Graphics representative or call 800-547-3000. For information on this product and to register for a webinar to learn more visit: <http://www.mentor.com/embedded-software/sourcery-tools/sourcery-codebench/virtual-edition>

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Rand Worldwide Launches Rand 3D

22 April 2013

[Rand Worldwide](#) today announced it is rebranding its Training Systems Division to [Rand 3D](#) to offer a complete design engineering solution. In addition to providing training and support for CATIA, DELMIA, ENOVIA, 3DVIA and PLM Express and PTC Pro/ENGINEER and Creo software, this new division will also sell Dassault Systèmes' software in both Canada and the United States.

“Integrating our unrivalled expertise in training and support with selling Dassault software now allows our customers to have a seamless experience with one partner that will meet all their needs throughout the software lifecycle,” says Chris Grossman, senior vice president of enterprise applications at Rand Worldwide. “We’re glad to be leveraging our rich training services history with our experienced trainers and courseware developers that offer a variety of training options from virtual classes to custom on-site options.”

Software Offering

As an established Solutions Partner with Dassault Systèmes and with a proven track record, Rand 3D offers customers the [latest software releases](#) and updates for software including: 3DVIA Composer, CATIA PLM Express, CATIA V5, CATIA V6, DELMIA PLM Express, DELMIA V6, ENOVIA V5 VPM, ENOVIA V6, and V6 PLM Express.

Training Expertise

Rand 3D offers a [complete array of training services](#) including: in-person classes, LIVE Online training, custom training as well as self-paced eLearning and knowledge assessments. Rand 3D’s teaching faculty are dedicated, full-time employees certified in both instructional delivery and software use. These Subject Matter Experts inject real-world experiences into the equation whether they are teaching online,

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in one of more than 30 Training Centers across North America, or on-site at a customer location.

To ensure the richest educational experience possible, Rand 3D uses curriculum developed by [ASCENT – Center for Technical Knowledge](#). The sole focus of ASCENT is to provide clients with the best training materials available for the industry’s leading engineering software applications, including those from Dassault Systèmes and PTC.

ProductivityNOW Portal

Extending the rich learning experience beyond the classroom, Rand 3D also offers access to the [ProductivityNOW portal](#), developed by ASCENT - Center for Technical Knowledge. This self-serve eLearning support knowledgebase offers Dassault Systèmes and PTC users 24/7 access to technical resources and eLearning. Content includes tips and techniques, video demonstrations, hands-on exercises, and a comprehensive repository of questions answered by Rand 3D technical experts.

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