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CIMdata News

CIMdata Announces Social Product Development and Collaboration Practice

5 March 2013

CIMdata, Inc., the leading global Product Lifecycle Management (PLM) management consulting and research firm announces the formation of its newest business practice on Social Product Development and Collaboration. The practice will concentrate on the use of social media tools and techniques to improve product development and innovation. Peter Bilello, President of CIMdata, announced that Dana P. Nickerson will lead the practice. “We are very pleased that Mr. Nickerson will be leading this new practice,” stated Mr. Bilello. “He is a thought leader in how to use information technology to improve product development to foster innovation and has deep knowledge and expertise in this area. He has implemented PLM at a fortune 500 industrial company, founded a software company that produces a Component Supplier Management product and provided PLM consulting to the leading global industrial companies. With this background and expertise, I’m sure the results of this practice will generate excellent value for our clients.”

“Organizations responsible for product development and innovation have many challenges that require rapid decision making, knowledge development, access, and use. However, knowledge development and decision making are inhibited by far flung organizations, cultural barriers, and lack of suitable collaboration tools,” said Mr. Nickerson. “Using current and future social product development tools and techniques will greatly improve collaboration which is the foundation of product knowledge and making good product and business decisions.”

With this new practice, CIMdata will offer a portfolio of consulting services aimed at industrial organizations as well as software solution providers who offer social and collaboration tools. A social product development diagnostic maturity model is available that will find knowledge development, decision making and collaboration issues, raise opportunities for improvement, and assess the potential value of addressing those issues. The practice will also provide a strategy for improving knowledge development and collaboration and reducing product development waste.

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CIMdata's Social Product Development and Collaboration Practice offerings leverage the organization's more than thirty years of management consulting, market research and analysis, webinars, solution assessment, and best practices education. For more information contact CIMdata at info@cimdata.com or at +1 734.668.9922.

About CIMdata

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

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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CIMdata to Offer Workshops for the Simulation and Analysis & Systems Engineering Communities

6 March 2013

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces that CIMdata's Simulation & Analysis Knowledge Council and Systems Engineering Knowledge Council will offer two one-day workshops in Cincinnati, Ohio. These workshops will explore emerging best practices on how to address the critical issues facing participants in the simulation and analysis, and systems engineering communities.

On 30 April, CIMdata's Simulation & Analysis Knowledge Council and a select group of leading-edge users will share how they have been able to create a competitive advantage by deploying simulation and analysis to facilitate product and manufacturing system development. The workshop, now in its tenth year, will be facilitated by CIMdata's practice manager for Simulation & Analysis, Dr. Keith Meintjes.

The workshop will focus on two critical areas; the democratization of simulation and simulation capabilities, maturity, and readiness. The objective of simulation democratization is to make simulation available to a wider audience for collaboration and to engineer the system across domains and

CIMdata PLM Industry Summary

disciplines. Simulation capability, maturity, and readiness refer to the ways organizations must develop the capability to apply simulation reliably, while producing repeatable results.

On 1 May, CIMdata's Systems Engineering Knowledge Council will host its inaugural workshop. The workshop will show how a competitive advantage may be created through the deployment of systems engineering as a strategy for product development. Real-world examples will be provided by council participants and leading-edge users. The workshop will be facilitated by CIMdata's practice manager for Systems Engineering, John MacKrell.

Both workshops will provide attendees with time to network with domain experts from CIMdata, council participants, and others interested in these topics.

For more information on the Simulation & Analysis workshop visit our website at http://www.cimdata.com/news_events/workshops/simulation.html and for information on the Systems Engineering workshop visit our website at http://www.cimdata.com/news_events/workshops/systems_engineering.html.

About CIMdata

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CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia-Pacific. To learn more about CIMdata's services, visit our website at www.CIMdata.com, 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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CIMdata PLM Industry Summary

Using PLM In the Cloud to Improve Business Flexibility: a CIMdata Commentary

7 March 2013

Key takeaways:

- *Companies must have swift, agile organizations that can quickly adapt to changing market demands*
- *Cloud-based PLM delivers fast deployment, solution flexibility, and reduced IT cost*
- *Canopy, Joint Venture of Atos, EMC2 and VMware, is providing cloud-based Teamcenter solutions tailored to each company to meet their needs for fast, cost-effective PLM solutions*

Introduction

In today's highly competitive global market, delivering differentiating, right to market products faster is critical to a company's success as they strive to obtain a "first mover" competitive advantage. Winning companies must have swift and agile organizations that can adopt their products and business processes to meet rapidly changing market demands. Operational speed and flexibility are key factors in improving business performance and addressing the issues of time, cost, market change, and resource availability.

Companies need to have the ability to access the functional applications they need, as they need them, for as long as they need them without having to pre-define what may be required to support a project or program. They also need to be able to use these applications within business processes, e.g., product development, and be able to share information quickly and securely. They need dynamic, flexible Product Lifecycle Management (PLM) environments that they can quickly adjust to meet their business needs. Companies are looking for new delivery and use paradigms that will provide the flexibility they must have to maximize their human and intellectual property resources without incurring burdensome costs and administration.

What Needs to Change

Today companies are not looking to buy "PLM." They want solutions that solve specific business "pains" for their specific industry focus. Businesses must be able to more quickly acquire and deploy PLM functionality and solutions that give them operational flexibility and improve the efficiency and the pace of product development, production and service. They need to be able to take advantage of new capabilities without having to go through lengthy installation and tailoring processes—and they need to deploy and operate these new capabilities in a cost efficient manner. Reducing the time to deploy new PLM functionality with less (or no) IT support and infrastructure costs can significantly improve operational flexibility.

From a business perspective they need to achieve a fast return on their PLM investment and want to be able to grow their PLM solutions on demand without additional expense or infrastructure. And they want to have infrequently used PLM functions available quickly—giving them the operational flexibility to respond to changing market demands.

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Traditionally, PLM solutions were delivered on a combination of in-house servers and networks (though Internet connections and browser-based user interfaces have become common). Solutions were configured for each company's needs and then some level of IT administration was required to support the PLM environment. Adding new functionality generally required companies to obtain the needed licenses and then configure any additional functional modules to work within their tailored environment. While effective, this process took time and provided limited flexible access to new and needed PLM functionality.

In this paradigm, IT has often been a speed bump, especially in deploying highly customized PLM applications. While CIOs have worked hard to reduce IT complexity by rationalizing and harmonizing applications and establishing corporate IT standards, within the field of PLM this is still a significant issue. Making this worse, the expertise needed to implement and operate comprehensive PLM applications such as Siemens PLM Teamcenter is significantly mismatched with the abilities and capacities of most IT departments. Additionally, where IT is already outsourced the conflict between the outsourcer's desire for predictable, stable and low cost and effort environments contradicts with the customer's demand for flexible and agile environments allowing business changes like flexible globalization, collaboration, and divestitures.

Companies are recognizing the need to simplify their PLM environments and reduce (or eliminate) the customizations that have long plagued PLM implementations. They are also looking for solutions that have more industry-specific best practices and standards embedded within them (another factor in eliminating customizations). The functions and features of PLM applications are the domain of the software vendors and they are combining those capabilities to offer tailored, ready to use solutions for the majority of their customers. Every advantage of a customization should be carefully compared with the disadvantage of losing flexibility and increased support costs. Industrial companies want to improve the simplicity of their PLM implementations to gain flexibility and the ability to rapidly modify the solution to meet changing business needs. This required and noticeable trend of "simplicity" is the foundation for the second solution component: Cloud Computing.

PLM in the Cloud

The advent of Cloud-based computing is providing new, highly flexible PLM delivery paradigms that address many of the issues with traditional PLM delivery. Cloud-based PLM solutions leverage the cloud's ubiquitous access, infinite computing resource, and unlimited scalability to provide companies a highly flexible workspace within which personnel in multiple organizations (internally and externally) can collaborate using workflows that extend across the full partner enterprise and organizational boundaries.

Benefits of Cloud-based PLM include:

- Delivery of managed services at controlled costs without a customer needing to own the supporting IT infrastructure
- Pay-as-you-go access to applications and computing resources, reduced up front and continuing costs

CIMdata PLM Industry Summary

- Resource flexibility—scale up only when needed for as long needed
- Speed of deployment
- Services out of the box, delivered and managed by the Cloud solution provider

PLM in the cloud is becoming a more viable and accepted delivery mechanism. Companies want to use cloud-based solutions to address both infrastructure and software issues and requirements. However, it is important to differentiate the Infrastructure as a Service (IaaS) approach from the Software as a Service (SaaS) approach.

IaaS is a substitution of physical hardware (on premise or hosted) with virtual hardware. The advantage is the flexibility of the infrastructure and the rental model. IaaS is an IT issue, leaving the complexity of implementing and operating the application to the customer.

SaaS is a major change in using and managing software. With SaaS a vendor takes full responsibility for the PLM solution and the working environment as well as services and implementation. SaaS implies that the vendor also offers a configuration that is ready to use—and that's where the limitations currently exist. Full SaaS for high end PLM implementations (for large, complex enterprises) is not readily available. Currently the configurations that are offered still need customer specific adoption; and user licenses in most cases are not included, as the PLM software vendors normally do not support that model.

Closest to the SaaS approach for high end PLM solutions is Canopy's Dynamic PLM Service. Canopy is a joint venture of Atos, EMC2 and VMware under the guidance of Atos, offering Cloud Computing solutions for enterprise customers.

Canopy Approach

Canopy recognized that customers want a comprehensive, complete and end-to-end packaged solution that meets their PLM requirements. Customers are focusing on the three “P’s”: Individual Productivity, Application Productivity and IT Productivity. In order to make this 3P improvement easier, Canopy—together with Atos’ PLM system integration organization—has established a partnership with Siemens PLM Software to develop their Dynamic PLM Service. This is delivered through Canopy which provides a comprehensive Dynamic PLM service as a Cloud framework, supporting Siemens PLM Teamcenter. Customers can rent managed, ready to use Teamcenter instances in a "Virtual Private Cloud" environment. While somewhat limited, customization of each company’s environment to match many specific requirements is possible. Due to Siemens PLM's licensing policy, customers have to provide the Teamcenter licenses but everything else is included in a monthly per user price.

Canopy leverages Atos’ industry specific solutions and adds its domain expertise to ensure that each instance of Dynamic PLM meets the PLM needs of the using enterprise to deliver a PLM solution aligned with each customer’s business and technology needs. The Dynamic PLM Service includes:

- A cloud based infrastructure, deploying, operating and supporting all related IT infrastructure

CIMdata PLM Industry Summary

components within the Teamcenter environment

- Tailoring Teamcenter to produce a customer-specific environment
- An ITIL-compliant Service Desk and application management approach
- Application Implementation services, based upon standardized Teamcenter templates and using Canopy's standardized implementation approach and Atos' strength in system integration
- Application Management services, based upon Canopy's global delivery model for application support and maintenance

As shown in Figure 1, Dynamic PLM Service is hosted in secured and customer specific zones inside Canopy's datacenters. Each customer zone has one or more Teamcenter Configurations within it. The configurations could be for different needs such as "Development Configuration" or "Production Configuration." All virtual machines within a customer zone are unique to a customer. Each configuration uses its own Teamcenter Server(s) and database instance, as well as volume(s).

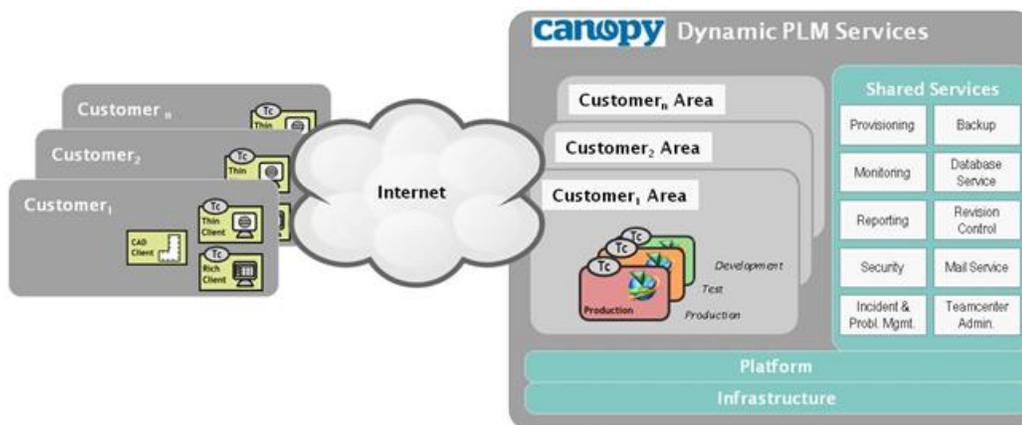


Figure 1—High Level View of Canopy Dynamic PLM Service Architecture

All the configurations for each customer use shared infrastructure for the resource tier of Teamcenter within a datacenter. The dedicated virtual appliances allow Canopy to provide secured services, while shared infrastructure enables premium features such as disaster recovery at lower price than otherwise possible.

Summary

Continuous pressures to improve productivity, lower costs, compress delivery times, and enhance product quality are challenging manufacturers around the world. Companies need dynamic, flexible Product Lifecycle Management environments that they can quickly adjust to meet their business needs. They must be able to add both functionality and users as new projects and product programs demand. What companies want is a PLM solution that offers fast, simple, low cost deployment and the flexibility to scale in functionality and size.

CIMdata believes that intelligent use of the Cloud and Cloud-based computing resources will help companies to be able to better develop innovative products. Cloud-based PLM can deliver the fast deployment, solution flexibility, and reduced IT cost that companies need to establish and maintain their

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competitive advantage.

Using Canopy's Dynamic PLM Service companies can obtain a PLM Cloud solution meeting their complex and demanding requirements. Canopy offers a solution combining the strength of cloud computing (flexibility, readiness, business model) with the strength of on premise implementation (individualization). Companies looking for new ways to maximize their PLM investment while improving their flexibility to respond quickly to market and business demands should evaluate Canopy and the Dynamic PLM Service as a possible solution to their needs.

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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Company News

ASCENT- Center for Technical Knowledge® Adds Local Fulfillment Centers in Latin America

5 March 2013

[Rand Worldwide](#) announced that its courseware division, [ASCENT- Center for Technical Knowledge](#), is expanding its global sales and fulfillment abilities to cover key markets within Latin America.

Now, individuals, organizations, educational institutions and training providers within Latin America can purchase any of ASCENT's 57 Autodesk Official Training Guides and have their order fulfilled locally. Customers in Mexico will now receive ASCENT-developed training materials that are printed and distributed from within that country, while the new fulfillment center in Colombia will print and ship orders to surrounding markets. Adding these two new fulfillment centers offers customers greater flexibility when ordering Autodesk training materials. In April, another local fulfillment center will be opened in Brazil to serve all sales within that country.

When the new series of ASCENT training materials are available, customers will be able to have their orders locally printed in Australia, Brazil, Canada, Colombia, India, Mexico, Singapore, UK and the USA. For immediate access to any of ASCENT's training guides and the ability to make, share and sync notes and highlights with other users, customers can also access or download eBook versions of the training guides. ASCENT's [eBooks](#) can be accessed online through any Internet connected computer,

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downloaded to any computer with a Windows or MAC operating system, or downloaded to any smart phone or tablet device compatible with iOS 4.0 or higher or Android 2.2 and higher. To purchase any Autodesk Official Training Guide visit the [ASCENT eStore](#).

“For the past 12 years the great reputation of our training materials has been spreading further and further around the globe,” says Paul Burden, director of product development, ASCENT. “Today, we locally print training materials around the globe and for customers who prefer the advantages of an electronic version, we provide eBooks. In fact, in just 2012 alone we sold well over 35,000 Student Guides, Instructor Tools and eBooks to help people become more efficient with their Autodesk software.”

ASCENT is also sponsoring and speaking at Autodesk’s One Team Conference. “We’re excited to play a special role at a conference which is designed to help Autodesk Training Centers provide more value to their customers,” added Burden.

Ronda Wiley, ASCENT Courseware Business Manager, will also be speaking during a special Autodesk Training Center breakfast reception. Ronda will explain how adding training services can incrementally grow business and build long lasting customer relationships. The presentation will be held during the breakfast which starts at 7:30 am in the Marco Polo 707 room in the Venetian Hotel, Las Vegas on March 6, 2013.

Autodesk One Team Conference attendees who visit the ASCENT booth in the networking reception area will be eligible to enter a draw for an iPad mini and one free eBook.

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Cadence Palladium XP Verification System Wins Prestigious ACE Award in China

6 March 2013

Cadence Design Systems, Inc. today announced that it has won the prestigious 2013 EE Times-China ACE Award for the Cadence® Palladium® XP verification computing platform. Engineers and industry analysts selected [Palladium XP](#) in the category of best electronic design automation (EDA) product.

EE Times-China presented Cadence with the award during the publication’s annual conference on March 1 in Shenzhen. Criteria for the award require that the product offers significant design and technical benefits over prior or competing products; that it provides engineers with new and compelling capabilities or delivers existing features in a new and innovative way; that it creates significant benefits in saving resources; and that it is likely to have a significant impact in mainland China.

CIMdata PLM Industry Summary

“This award from EE Times-China confirms we are on the right track in our approach to tackling the toughest verification challenges in system design,” said Christopher Tice, corporate vice president at Cadence. “We developed Palladium XP in response to our customers’ input that, due to increasing complexity coupled with huge increases in software content, they need solutions to solve hardware verification and hardware/software verification and integration challenges. We will continue to work proactively with our customers to ensure that we offer them the most advanced tools that they need to succeed.”

Cadence Palladium XP is the industry’s first high-performance, special-purpose verification computing platform that unifies best-in-class simulation acceleration and emulation capabilities in a single environment. With its hot-swap technology, Palladium XP delivers productivity as users can transition among simulation, simulation acceleration, and emulation environments at runtime without re-compilation.

This milestone marks the second straight year that Cadence has won the EE Times-China ACE award for best EDA product. Last year, the award was presented to Cadence for Virtuoso® AMS Designer.

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CD-adapco Joins Center for Structured Organic Particulate Systems (C-SOPS)

6 March 2013

Today, CD-adapco officially announces that it joined the Center for Structured Organic Particulate Systems (C-SOPS), the academically-based research organization dedicated to modernizing pharmaceutical manufacturing and dosage forms. The Center brings together leading researchers from four major universities to work closely with industry leaders and the FDA to achieve these goals. Headquartered at Rutgers University, C-SOPS partners include the New Jersey Institute of Technology, Purdue University, and the University of Puerto Rico at Mayaguez.

As a member of the Center’s Industrial Advisory Board, which includes more than 40 companies and the FDA, CD-adapco will have the opportunity provide guidance in the field of computational modeling. STAR-CCM+ is an ideal analysis environment for a wide range of pharmaceutical applications such as mixing, solids handling, separation, and manufacturing. The complex flow-fields associated with these applications can be addressed with ease by using the high-end physics models delivered by STAR-CCM+, including the powerful DEM and multi-phase flow technologies. Using STAR-CCM+ will open the door to explore innovative ways to reduce cost and shorten time-to-market which is vitally important to the success of continuous manufacturing applied to APIs.

“The team members are specifically interested in STAR-CCM+’s DEM technology, and the coupling between a fluid and particles,” said CD-adapco’s Life Science Director, Kristian Debus. DEM (Discrete

CIMdata PLM Industry Summary

Element Modeling) simulates the motion of a large number of interacting discrete particles (such as tablets and capsules) and tracks the interaction between every particle in a numerically efficient manner, modeling contact forces and energy transfer due to collision and heat transfer between particles. STAR-CCM+ leads to solids handling solutions, whether you need to analyze the chaotic movement of particles in fluidized beds, improve tablet coating uniformity, or find a cost-effective solution for equipment corrosion.

"We are very excited to have CD-adapco joining as an industrial partner," said Dr. Doug Hausner, Associate Director for Industrial Relations and Business Development, ERC for Structured Organic Particulate Systems (<http://ercforsops.org/>). "Their combination of dry and hydrated modeling techniques will allow us to further explore manufacturing processes such as wet granulation. This unique member will also bolster our theoretical understanding of developing dosage forms based on film casting and solution deposition technology."

The agreement has been set-up to enable all academic CSOPS partners to get access to software, training and support through the CD-adapco Global Academic Program. It combines the expertise from leading academics and industrial partners in the development of methodologies in the use of simulation that can be deployed to all industrial partners.

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Cimatron Establishes 3D Printing Advisory Board

6 March 2013

Cimatron Limited announced today that its Board of Directors has approved the establishment of a 3D Printing Advisory Board, and named Terry Wohlers as its first member.

"The creation of a 3D printing advisory board, and Mr. Wohlers' appointment to it, is aimed at accelerating Cimatron's efforts in entering the additive and hybrid manufacturing field," said Mr. Danny Haran, Cimatron's President and CEO. "We are pleased and honored to have Mr. Wohlers on board, and believe that his wide experience and knowledge of this fast emerging industry will assist us in identifying ways in which we can further our efforts to serve the global manufacturing market as effectively and innovatively as possible."

Terry Wohlers has been an authority on 3D printing technology for over two decades. His Colorado-based company, Wohlers Associates, Inc., <http://wohlersassociates.com>, provides technical and strategic consulting on the new developments and trends in rapid product development, additive manufacturing, and 3D printing, and has provided advice and assistance to over 200 organizations in 24 countries. Mr. Wohlers is also a public commentator on the 3D printing industry, having served as a keynote speaker at nearly 100 conferences worldwide and interviewed extensively as an industry expert across countless print and electronic media.

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"Cimatron has long been a strong player in the CAD/CAM software market, and it is only natural for the company to leverage its knowledge of manufacturing software solutions by exploring opportunities in 3D printing," said Mr. Wohlers.

"By 2015, we believe the 3D printing industry will be worth \$3.7 billion, and a successful deployment by Cimatron in this market will provide it strong potential for growth," Wohlers explained. "I am honored to have been selected as part of Cimatron's pioneering efforts in this regard and I look forward to working closely with Cimatron's management team and Board of Directors."

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D|C|CADD Earns Autodesk Product Support Specialization

5 March 2013

[D|C|CADD](#) today announced that it has earned the new Product Support Specialization recognizing outstanding technical support capabilities. This designation is awarded to selected qualified partners of [Autodesk, Inc.](#)

As an Autodesk Product Support Specialized Partner, D|C|CADD has shown that they have made a significant investment in their people, they have a solid business plan specific to their specialization area, they have customer references, and that they provide a high level of knowledge and support to customers in the architecture, engineering, construction (AEC), and manufacturing industry.

"Consistently delivering excellent product support has been a priority for us since I started in the company in 1987. Being responsive to our customers' needs for expert help is in our DNA – everything we do is wrapped around this basic philosophy," stated D|C|CADD President Doug Wietbrock. "We utilize the latest business systems and technologies to track every issue to its closure. I'm very pleased to report that 98.7% of the 3,800 customers who sought our help in 2012 rated our support services as Good or Excellent."

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

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Entries Open for the Eleventh Annual KOMPAS-3D Modeling Contest

4 March 2013

CIMdata PLM Industry Summary

ASCON Group, developer and integrator of professional CAD/AEC/PLM solutions, is thrilled again to announce the annual KOMPAS-3D Modeling Contest, now in its eleventh year. All current and future customers are welcome to submit images of their design projects made with KOMPAS-3D.

The modeling contest is held annually to showcase the abilities of individuals and enterprises using KOMPAS-3D for modeling a wide variety of 3D and 2D designs. The winning results from previous years are exhibited at [ASCON's online Design Gallery](#). The 3D models submitted included their latest products, newest buildings, and extensive industrial facilities. Many of the projects seen online as 3D models are now successfully implemented as machines, engines, and other products in industries worldwide.

About the Contest

This year, ASCON accepts projects in following categories:

- 3D assembly models of products developed in KOMPAS-3D
- 3D models of construction projects developed in KOMPAS-3D

To participate, simply fill out the official application form, and then send it with the KOMPAS-3D project files or screen shots to contact@ascon.net. All companies and individuals using KOMPAS-3D V9 through V13 Plus are allowed to take part.

Deadline is June 1, 2013. Winners of the Eleventh Annual KOMPAS-3D Modeling Contest will be awarded valuable prizes from ASCON and sponsors of the event in September 2013. General partner of the Modeling Contest 2013 is NVIDIA company. Also the event is supported by 3DConnexion, Arbyte, Cybercom, Softkey and others.

For more information about Contest 2013, please contact us at contact@ascon.net.

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Ford Committed to ProSTEP iViP's Codex of PLM Openness

3 March 2013

After Toyota signed the CPO beginning of this year, Ford now committed its support officially. Following Mark Johnson, Executive Technical Leader – IT, Ford Motor Company, this includes “...plans to implement the CPO terms when engaging our PLM vendors ...”

ProSTEP iViP's Codex of PLM Openness (CPO) is an initiative, for establishing a common understanding on openness of IT systems in the context of Product Lifecycle Management (PLM) between IT customers, IT vendors and IT service providers. Meanwhile nearly 60 companies stated their

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commitment to support the CPO. This includes companies like Airbus, Atos, Autodesk, BMW, CONTACT, Continental, Daimler, Dassault Systèmes, Ford, NTT Data, PTC, Siemens PLM, Toyota, T-Systems, Volkswagen and ZF.

The complete list of these companies and more information about the CPO can be found at <http://www.prostep.org/en/cpo.html>

The CPO gets enhanced continuously. Not surprising that the CPO will be key-topic at this year's ProSTEP iViP Symposium, from 16./17. April, in Hanover, Germany. Within keynotes and special presentations user and IT representatives will present their position. They are sure that this will lead into interesting discussions.

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Luxion Appoints LEAP Australia as KeyShot Reseller

7 March 2013

Luxion today announces LEAP Australia Pty Ltd as its newest software reseller for KeyShot. LEAP is the largest PTC® and ANSYS reseller in Australia and New Zealand with offices in Auckland, Sydney, Brisbane, Melbourne, Perth and Adelaide, and will now offer Luxion's KeyShot 3D Rendering software to users of PTC Creo®, SolidWorks, Rhino, Inventor, SolidEdge, NX or CATIA.

KeyShot is an interactive 3D rendering and global illumination program developed by Luxion for both PC and Mac that breaks down the complexity of creating photographic images from 3D models. Combined with its ease of use, KeyShot gives anybody involved with 3D data the ability to create photographic images in a matter of minutes, independent of the size of the digital model.

“High-end rendering for CAD users is often seen as a time consuming activity that requires expert knowledge to create high quality results. Now with the tight integration between KeyShot and CAD systems like PTC Creo®, users can get photo realistic results fast and easy” says Matthias Pfeifer, PTC Business Manager at LEAP Australia.

KeyShot directly accepts models from PTC Creo® on both PC and Mac, as well as through a plugin with the ability to maintain a Live Link between PTC Creo® and KeyShot, as well as import mechanisms direct from PTC Creo® to be used in building KeyShot animations.

“The Luxion partnership with LEAP is a natural fit as we will be able to offer another industry leading tool to our customers to help them design better products. We are very pleased with the partnership between our two companies” says Greg Horner, Managing Director at LEAP Australia.

LEAP represents the largest CAD, CAID, CAM, DEM, FEA, CFD, PDM and PLM reseller in Australia

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and New Zealand. LEAP serves thousands of customers with PTC Creo® as well as other PTC® and ANSYS products in the ANZ region.

“LEAP Australia is an impressive company with an equally impressive customer base, says Dr. Henrik Wann Jensen, Co-Founder and Chief Scientist at Luxion. “We are very excited that LEAP has decided to add KeyShot to their already extensive product portfolio to deliver the best rendering solution to their customers. With LEAP’s commitment to excellent sales and customer service, we know we have a great partner that will help us further penetrate the Southern Pacific market.”

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Majenta PLM Launches New CAE Division

28 February 2013

Majenta PLM Limited has launched its CAE division. Headed up by Dr. Peter Ward and based at the company’s Cranfield Technology Park headquarters, the new division is totally dedicated to meeting the computer-aided engineering and simulation (CAE) needs of companies large and small. The division will use the new team’s proven expertise in end-to-end design and manufacturing solutions to implement the full range of Siemens PLM Software’s CAE products throughout the UK and Ireland.

In today’s increasingly competitive manufacturing environment, fitness for purpose is just as important as the ability to get products into the hands of the paying customer quickly. The automotive, aerospace and defence equipment manufacturers, with their hugely complex products and high investment levels, know this and have already obtained huge benefits through the use of CAE. These days, though, nothing is simple and the smaller the product, the more complex they seem to be. Consumer durables, household appliances, vehicle sub-systems, mobile phones (to name just a few examples), are no longer simple devices. This means that product function and manufacturability, as well as structural, dynamic and thermal performance, durability, reliability and end-of-life disposal are of vital importance and can benefit from the use of CAE.

The new division extends the Majenta Group’s overall capability to deliver complete IT landscapes, consultancy, implementation, training and outsourcing for its customers. The high level vision is to enable customers to carry out as much testing and simulation as possible with the minimum of prototypes, before committing to product fitness for purpose at best cost and with minimum use of materials and energy. For the division’s customers this means equipping each and every desktop and capturing the specialist knowledge in the customers’ business, removing bottlenecks then tying everything together through CAE and including audit trails to show where and why key decisions were made.

Of course, many organisations already have CAE specialists and for those, the Siemens’ CAE solutions enable them to work on the very same model as the designers, helping to eliminate time consuming iterations between design, manufacturing and CAE, and remove ambiguity and errors of interpretation and translation.

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Dr. Peter Ward, CAE Business Development Director at Majenta PLM, has a reputation based on his many years of successful experience in the industry at technical, sales and VP levels with leading CAE vendors. He says, "The key to our customers maximizing the value of CAE is to use it as early as possible in their development process." He confirms, "Siemens has the best products to deliver both end-to-end and point solutions."

Moving forward, Majenta will utilize Siemens' NXTM software CAE solution, NXTM Nastran® software, Femap™ software, Tecnomatix® software, and Teamcenter® software in its new division.

Tony Hemmelgarn, Siemens PLM Software Senior Vice President and Managing Director for Europe, the Middle East and Africa says, "Siemens has worked with Majenta PLM in setting up a new dedicated CAE division. I believe that Siemens offers the world's best integrated CAE solutions and Majenta PLM, our top UK VAR (value-added reseller), will now make this accessible to manufacturers competing in today's global marketplace."

Peter concludes, "Siemens' support of our new division as one of the first resellers to deliver a one stop solution is very welcome. The CAE product set is ready, we have a great team, we have the resources, the skills, and the experience and above all, our customers are demanding it."

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Microdesk Earns Autodesk Process Plant Specialization

4 March 2013

Design technology consultancy, [Microdesk](#), announced that it has earned the new Autodesk Process Plant Specialization, recognizing their expertise in process and power plant design and engineering. This designation is awarded to selected qualified partners of [Autodesk, Inc.](#)

As an [Autodesk Specialized Partner](#), Microdesk has demonstrated their unique ability to provide expert consulting, support and training on Autodesk's Process Plant Design technologies. These multi-disciplinary 3D design, modeling and review software tools are commonly used in the design and construction of complex processing and manufacturing facilities.

"The Process Plant Support Specialization highlights the sophisticated level of technical expertise and support our consulting team is able to supply to our clients," said Mike DeLacey, president of Microdesk. "Our team is capable of tackling extremely complex and design and construction challenges, from identifying ways to more effectively integrate building information modeling (BIM) technologies to improve design processes, to providing the training, mentoring and support necessary to enable our clients to successfully meet challenging program requirements of facilities like processing plants."

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Levering BIM design technologies for process and plant design is becoming increasingly critical. With fully coordinated 3D models design teams are better able to create more intelligent designs, increase efficiencies both in the design process and the operations of the facility itself, reduce errors during construction, and deliver more value to the facility owner by providing a complete building model that can be leveraged for operations and maintenance.

The new Autodesk Partner Specializations highlight Autodesk partner proficiency in delivering services in key industry areas. Specialization is achieved by completing rigorous curriculum requirements and training, as well as meeting required levels of service and standards set by Autodesk.

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Microdesk Honored as 2013 Autodesk Platinum Club Winner

7 March 2013

Design technology consultancy, [Microdesk](#), announced that Autodesk has designated them as an Autodesk 2013 Platinum Club winner for Top Overall New Business Growth in 2012. Microdesk was inducted into the 2013 Autodesk Platinum Club at Autodesk's One Team Conference (OTC) held this week in Las Vegas, Nevada.

[Platinum partners](#) provide their customers with full solutions from pre- and post-sales support, consulting, training, implementation, and customization. Microdesk works closely with Autodesk to help customers design, simulate and analyze their ideas, increase operational efficiencies and maximize their return on investment in Autodesk software solutions.

"Our Platinum Club partners deliver world-class service and technical expertise, helping make their customers more efficient, competitive and innovative," said Bill Griffin, vice president, executive sales, Autodesk.

"Microdesk is honored to receive this recognition from Autodesk," said Mike DeLacey, president of Microdesk. "We are fortunate to be working with many of today's leading design, construction and owner organizations. It is thanks to these relationships, coupled with our expert team and quality consulting services, that we are able to continually grow this network. We are committed to continuing to deliver great solutions to the AECO industry."

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Microsol Resources Goes Platinum

1 March 2013

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Microsol Resources Corporation is pleased to announce that it has been recognized by Autodesk as an Autodesk Platinum Tier Value-Added Partner, the highest level of designation possible.

Platinum Tier partners have the demonstrable ability to incorporate Autodesk software solutions along with proven and measurable technical expertise in a specific industry or unique business. Platinum partners provide their customers with best-in-class full solutions from pre and post-sales support, to consulting, training, implementation, and customization.

Microsol Resources works closely with Autodesk to help customers design, simulate and analyze their ideas, increase operational efficiencies and maximize their return on investment in Autodesk software solutions. "Microsol Resources has raised the bar by developing a deep understanding of their customers' business, pain points, and goals. They also have a solid understanding of problem-solving and implementation," said Steve Blum, Senior Vice President of Worldwide Sales and Services at Autodesk.

Microsol Resources is the first Value-Added Reseller (VAR) to receive the Platinum designation in the New York metropolitan area, and only the seventh VAR to achieve this premier status out of 200 U.S. resellers. The company joins an elite group of Autodesk partners that are differentiated among the various partner tiers. The Platinum Tier was added in 2011 as a clear indication to Autodesk customers of those partners that provide the highest level of service and industry expertise.

"Microsol Resources is our go-to expert for BIM consultation and Autodesk products. We have relied on them for many years to be ahead of the curve on software, training, and support, so it comes as no surprise that they have become a Platinum partner," offered Scott Frank, Partner at Jaros, Baum & Bolles Consulting Engineers (JB&B). "I have always found Microsol Resources to be extremely customer oriented and responsive to our needs. They completely understand our market and tailor their operations to be responsive to it," stated Michael Budiyanskiy, IT/CAD Manager of Rafael Vinoly Architects.

To qualify for Autodesk Platinum Tier status, a Value-Added Reseller must demonstrate technical and industry expertise that includes a strong knowledge of customers' business needs in the areas of architecture, engineering, construction, manufacturing, or media and entertainment. "Achieving Platinum Tier status is an honor, as well as a recognition of our rigorous commitment to expertise, support, personnel, and customer satisfaction with Autodesk solutions at the highest level," said Emilio Krausz, President, Microsol Resources.

This recognition complements the recent specializations Microsol Resources has earned over the past year, including the designations for Simulation, Support, and MEP Systems Engineering. It also follows the news of client feedback demonstrating that the company exceeds Autodesk's highest quartile ranking of customer satisfaction in the U.S. and Northeast. In business since 1986, the company begins its 26th year as an Autodesk reseller.

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MSU Receives \$209 Million In-Kind Software Grant from Siemens PLM Software

4 March 2013

The Morehead State University Foundation and MSU's College of Science and Technology have announced today that it has received an in-kind software grant from Siemens PLM Software with a commercial value of more than \$209 million.

The grant was provided by Siemens PLM Software's Global Opportunities in PLM (GO PLM™ initiative), a program that delivers PLM technology to more than one million students yearly at more than 11,000 global institutions, where it is used at every academic level – from grade schools to graduate engineering research programs.

“Morehead State is pleased to partner with a global corporation that is on the leading edge of PLM technology,” said President Wayne D. Andrews. “Our university could not develop the next generation of engineers without the support of this state-of-the-art technology from Siemens PLM Software.”

This in-kind grant gives students in the Department of Applied Engineering and Technology access to the same technology that companies around the world depend on every day to develop innovative products in a wide variety of industries including automotive, aerospace, machinery, shipbuilding, high-tech electronics and much more.

“By using the same technology in the classroom that is used by companies all over the world to develop a wide variety of products, our students gain important real world experience during their studies that will serve them well after graduation,” said Dr. Roger McNeil, dean of the College of Science and Technology. “Graduates with this type of software training are highly-recruited candidates for advanced technology jobs.”

“Siemens PLM Software is dedicated to equipping today's students with the knowledge and skills necessary to serve in the next generation of engineers,” said Bill Boswell, senior director, partner strategy, Siemens PLM Software. “Morehead State serves a key role in filling the STEM job skills gap and producing highly qualified future employees.”

MSU's in-kind grant includes Siemens PLM Software's Technomatix® portfolio, the digital manufacturing software; NX™ software, an integrated solution for computer-aided design, manufacturing and engineering (CAD/CAM/CAE); and Solid Edge® software, the complete hybrid 2D/3D CAD system. Siemens PLM Software is a leading global provider of product lifecycle management (PLM) software and services with 7 million licensed seats and more than 71,000 customers worldwide, delivering open solutions to help its customers make smarter decisions that result in better products.

“MSU would like to thank Siemens PLM Software for this generous grant of advanced engineering software that enables our students to better prepare for successful advanced technology careers,” said James Shaw, chief executive officer of the MSU Foundation Inc.

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Omnify Software Receives 2013 Kinetic Process Innovation Award

5 March 2013

[Omnify Software](#), a provider of Product Lifecycle Management (PLM) software for electronic, medical, mechanical, and defense manufacturers, announces that it has received, for the third year in a row, the Kinetic Process Innovation Award for excellence in the Product Design Automation category. Now in its seventeenth year, the [Kinetic Process Innovation Awards](#) honors companies whose technology has made a significant contribution to supporting business growth and achievement for their customers.

Omnify Software was selected as the Product Design Automation category winner for their PLM application at [Terrafugia](#), a growing aerospace company that designs and manufactures "flying cars". Terrafugia implemented the Omnify Empower solution to manage their complex Parts List/Bill of Materials (BOMs) for FAA (Federal Aviation Administration) compliance. FAA regulations require demonstration of line item compliance for past and newly accepted standards. In addition, all Terrafugia vehicles are custom ordered therefore each build is a variant of a Parent BOM.

Terrafugia had maintained automotive and aviation specifications in large manuals and tracked BOMs in Excel spreadsheets prior to implementing Omnify Empower. The robust BOM and revision management capabilities of Empower PLM allow Terrafugia to electronically track old and new production vehicle information in a central location and with associations. This provides improved visibility into the BOM and better design control.

"Numerous cutting edge applications were submitted this year and as in past years, with the wide range of technologies represented, the judges found it particularly challenging to make their final selections," said Drew Barrows, Deputy Editor of [High Tech Views](#). "Omnify Software was again selected as a winner in the Product Design Automation category because the company continues to demonstrate their focus on solutions that increase product design efficiencies and provide valuable ROI for their customers."

"We are extremely happy that Omnify Software has been recognized yet again for this award," stated Jack Rowntree, COO for Omnify Software. "Customers like Terrafugia are a perfect example of a growing manufacturing company in a highly regulated industry that adopted our technology early on in order support product development best practices and continuously deliver innovative, compliant and safe products to the market."

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PACE Aerospace Engineering and Information Technology GmbH of Germany Joins the Aras Partner Program

7 March 2013

Aras® today announced that PACE Aerospace Engineering and Information Technology GmbH, a

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global provider of intelligent software solutions for the aircraft industry, headquartered in Berlin, Germany, has joined the Aras Partner Program. PACE will incorporate the Aras PLM solution suite into its comprehensive lifecycle solutions for aircraft and engine manufacturers, airlines, MRO providers and leasing companies.

PACE develops and distributes intelligent software solutions that span the entire aircraft lifecycle, from marketing and design to customization and flight operations. The company's areas of focus include conceptual aircraft and aircraft systems design, cabin configuration, performance analysis and the management of fuel and operational efficiency in flight operations. PACE works with the aircraft industry's leading companies, including Airbus, Air Berlin, ASDL, Bauhaus Luftfahrt, Boeing, Bombardier, Embraer, Emirates, Etihad, Eurocopter, Eurowings, GE Aviation, Irkut, Lufthansa CityLine, MDA, Rolls-Royce and Sukhoi. For more information please visit <http://www.pace.de>

“PACE has a proven track record of supplying high-quality software solutions to the world's leading aircraft companies. We welcome PACE to the Aras Partner Program and the Aras Corporate Community, and look forward to working together to help customers throughout the aircraft life cycle to optimize their product development processes and bring better products to market faster,” said Peter Schroer, President of Aras.

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Tata Technologies Launches 'Ready Engineer' Program at NIT, Jamshedpur

4 March 2013

Tata Technologies announced the launch of its 'Ready Engineer' - its corporate sustainability initiative for better engineering education – at National Institute of Technology (NIT), Jamshedpur. Initially a batch of 90 students from NIT Jamshedpur will undergo this program.

Initiated by Tata Technologies, the 'Ready Engineer' program will identify meritorious 3rd & 4th year engineering students from colleges across India who will be a part of this unique 40 hour classroom-based training process, which is led by experts. Tata Technologies' proprietary engineering training platform, [iGETIT®](#), will provide students access to the largest library of online training and tutorials during the course of the program.

Speaking on the occasion, Anubhav Kapoor, Company Secretary & General Counsel, Tata Technologies said; “While India produces a few lakh qualified engineers annually, industry routinely faces an acute shortage of engineers who are employable or industry-ready to immediately deliver on engineering services projects after graduating out of colleges. The Tata Technologies' Corporate Sustainability Program (CSP) has identified technical education as a core agenda. The 'Ready Engineer' initiative will help us to address the industry need for employable engineers by providing adequate supply of a high-quality engineering talent pool.”

“The Tata group has been instrumental in raising the bar for education in various fields of study. NIT Jamshedpur is proud to be associated with the Ready Engineer program. The institute has always been a breeding ground for some of the best engineering minds and this commendable corporate sustainability initiative will help provide better technical education for budding engineers in a very suitable manner”; said Prof. Rambabu Kodali, Director NIT, Jamshedpur.

Prof. Kodali also emphasized that domain knowledge and skills are key factors for the professional growth of students. In the present scenario, there is a need for such collaborative programmes with industry for continuously improving the quality of technical education.

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Events News

AVEVA Exhibits at ColombiaMar 2013

6 March 2013

AVEVA announced that it will be participating at ColombiaMar, the third international ship design and naval engineering congress, being held in Cartagena de Indias from March 13-15. AVEVA will be demonstrating how shipyards can adopt an Integrated Shipbuilding strategy using its market-leading solutions, including the AVEVA Marine Integrated Engineering & Design portfolio, its shipbuilding-optimised AVEVA Enterprise Resource Management planning, materials management and production solution, and its advanced AVEVA NET information management solutions.

'AVEVA offers field-proven solutions that are dedicated to the unique needs of the marine industry,' said Santiago Pena, Senior Vice-President – Latin America, AVEVA. 'Shipyards face tough times and they need tools that integrate key business operations to enhance productivity and profitability, lower overall production costs, and reduce project cycle times. AVEVA understands the factors critical to success in this demanding industry. Our solutions not only maximise efficiency in individual tasks; by managing the quality and flow of information across the enterprise they enable effective decision making and ensure that the right resources and the right materials are available at the right time. ColombiaMar is the ideal place for us to showcase these capabilities.'

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AVEVA Sponsors Fiotech's Annual Technology Conference and Showcase 2013

7 March 2013

AVEVA announced that is the platinum sponsor of the Fiotech Annual Technology Conference and Showcase being held March 25-27 at J.W. Marriott San Antonio in Texas. AVEVA will showcase its plant design software for Lean Construction, [AVEVA Everything3D™](#) (AVEVA E3D™) and [AVEVA Enterprise Resource Management™](#) (AVEVA ERM™) that supports efficient construction planning,

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project management and execution. AVEVA will also host the CETI Awards Reception and Gala Dinner which honors the Celebration of Engineering and Technology Innovation.

'It is crucial to collaborate on solutions to common industry problems and Fiotech is an excellent platform on which to do this,' said William Muldoon, Executive Vice President – North America, AVEVA. 'It is important to be part of the conversation between Owner Operators, engineering contractors and other stakeholders to improve the ways we engineer, design, procure, construct, operate and maintain capital projects. Such collaboration enables more effective use of the various software products used in multi-contractor, multi-owner megaprojects.

'The theme for Fiotech this year is "Deep in the Heart of Technology" which we very much see ourselves as being. We are very excited about showcasing AVEVA E3D, our new plant design software that enables Lean Construction.'

Other AVEVA products being featured include AVEVA's Enterprise Asset Management solution, [AVEVA WorkMate™](#), that supports effective operations, maintenance and regulatory compliance.

The AVEVA booth # 20 & 21 will be situated in the main exhibitor hall. The CETI Awards Reception and Gala Dinner takes place at 6:00pm on March 26 at the J.W. Marriott hotel.

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Cimatron to Present at the Roth Capital Growth Stock Conference

4 March 2013

Cimatron Limited announced that it will be presenting at the Annual Roth Capital Growth Stock Conference in Dana Point, California on Wednesday, March 20, 2013.

The Cimatron presentation at the Roth Capital Growth Stock Conference is taking place at the Ritz Carlton Hotel in Dana Point, California. Cimatron is scheduled to present at 9:30am Pacific Time on Wednesday, March 20, 2013.

At the Conference, there will be an opportunity for investors to meet one-on-one Cimatron's management. Interested investors should contact the conference organizers at Roth, or the Investor Relations team at Cimatron at cimatron@ccgisrael.com.

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Computer Generated Solutions (CGS) to Speak at SPESA Manufacturing Conference

28 February 2013

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[Computer Generated Solutions](#) (CGS), a global provider of technology solutions and services, announced today that they will be attending this year's SPESA conference on March 19th at the Anaheim Hilton Hotel in Anaheim, California.

SPESA's third educational conference on "Advancements in Manufacturing Technology" will feature insight from industry experts on improving quality and manufacturing efficiency while reducing lead-time. As the largest trade association in the Americas, SPESA is devoted to the advancement of suppliers of machinery, ancillary equipment, parts, services and technology and other products and services used for the development, manufacture, or distribution of sewn products.

Among the dynamic list of speakers will be Jim Hoerig, Executive Vice President of Manufacturing Solutions at [CGS](#). His presentation, "True Production Cost, How to Control It," will discuss the challenges of controlling manufacturing costs and what can be done to stay on top of this very complex problem.

"I am extremely honored to have the opportunity to speak at such an important event like SPESA," said Hoerig. "CGS has been involved in the manufacturing industry for nearly 30 years and has acquired a wealth of knowledge during that time. We are excited that this conference will enable us to share that knowledge with those who can most benefit from it and enhance their day-to-day operations."

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CNC Software, Inc. Showcases Mastercam X7 at AeroDef 2013

8 March 2013

AeroDef 2013 attendees will receive a sneak peek at the most powerful Mastercam machining software yet. Stop by booth # 502 at the Long Beach Convention Center in Long Beach, CA, March 19-21 for a look at Mastercam X7, the latest Mastercam release, which is due out Q2 2013. Mastercam X7 introduces many significant new capabilities, including the new Mill-Turn product and much more.

Mastercam Blade Expert

Mastercam Blade Expert is a custom application designed to generate toolpaths to cut multi-bladed parts. Blade Expert will cut multi-split impellers, propellers, turbines, and more. The toolpaths first remove the material from between the blades. Next, they finish the blades and fillets, and then finish up with the floor. Blade Expert has a clear, precise user interface which follows the consistent flow of all existing 5-axis toolpaths. The end result is a smooth toolpath, precise finish, and a dramatic reduction in programming and cycle time.

New Mastercam Mill-Turn

Mastercam's Mill-Turn product makes machining on today's high-powered turning centers and full-

function machining centers simpler and easier than ever before. Mastercam Mill-Turn streamlines the programming process with intelligent job setups that are keyed to the exact machine in your shop. Intelligent work plane selection makes it easy to select the proper spindle and turret, and program your part with Mastercam's proven milling and lathe toolpaths.

Renishaw Probing

Mastercam X7 integrates Renishaw's Productivity+ for in-process gauging. This uses a measuring probe on a machine tool to determine fixture offsets, orientation, and critical dimensions. Probing eliminates the need for tool presetters, expensive fixtures, and manual settings with dial indicators. It allows for machine offsets to be automatically adjusted, even during the machining process, to further enhance the manufacturing process.

Also available in Mastercam X7:

- The new Tool Manager, providing a whole new way to create and organize your tooling.
- Improved Backplot and Verify utilities that offer a more efficient workflow, better analysis tools, and more comprehensive toolpath support.
- Dynamic and OptiRough toolpaths with more efficient tool motion, including enhanced cut orders and faster calculation times.
- Multi-threading support extended to most 2D high speed toolpaths, resulting in faster toolpath processing.
- Oscillate motion for Curve and Swarf 5-axis toolpaths, improving your tool life by not always machining with the same area of the tool.

Visit www.mastercam.com for information about the upcoming Mastercam X7 release.

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Delcam's Latest CAM Developments on Show in Singapore

7 March 2013

Delcam will demonstrate the latest developments in its complete range of CAM software in partnership with Shonan Design at the MTA Singapore exhibition to be held from 9th to 12th April. Programs on show will include PowerMILL for high-speed and five-axis machining; FeatureCAM for quick and easy feature-based CAM programming; PartMaker for turn-mill equipment and Swiss-type lathes; the Delcam for SolidWorks integrated CAM system; and ArtCAM for artistic applications.

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

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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.

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.

PartMaker pioneered the field of CAM software for multi-axis turn-mill centres and Swiss-type lathes. The software offers a vast array of robust post-processors and machine-simulation files for virtually every machine model from all the leading builders. The 2013 version will feature a totally revamped surface-machining module offering PartMaker users some of the most powerful CAM machining algorithms on the market today for a variety of manufacturing platforms, including turn-mill centres, bar-fed mills and Swiss-type lathes.

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 to Preview New Design Module for Millable Pressovers at IDS

8 March 2013

Delcam will preview new options for the design and manufacture of pressovers in its range of CAD/CAM software for the dental industry on booth K040 – L041 in Hall 3.1 at the IDS exhibition to be held in Cologne, Germany, from 12th to 16th March. Delcam's DentCAD design software and DentMILL CAM system already have the ability to produce pressovers for crowns; the new functionality supports the design and machining of pressovers for anatomical bridges.

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Millable pressover techniques are used as the results are more durable than conventional bridges and because they allow the complete anatomical form to be created in fewer operations than manual manufacturing techniques. DentCAD is the first CAD system to offer a complete design method for these multi-unit restorations.

The pressovers are manufactured from glass ceramic materials, whose extreme hardness has previously made them difficult to machine. New strategies in DentMILL have been developed specifically to allow efficient, accurate machining of the materials.

The module for pressover design uses DentCAD's high-definition modelling methods to give realistic representation of fine details such as cusps and fissures on the teeth, and so allows an extremely accurate anatomical match to the surrounding teeth to be modelled. The module first creates the base framework on which the pressover will be fitted and then generates the pressover itself to the full level of detail.

As with all the other options within DentCAD, the new functionality has been developed in association with Delcam's panel of experts from the dental industry to ensure that it is extremely easy to use. This makes it suitable for those that have no previous experience of computer-aided design and manufacture, as well as for dental technicians that are already using CAD/CAM techniques.

Once the design has been completed within DentCAD, it can be transferred to DentMILL for manufacture. A series of new templates have been developed to allow pressovers to be machined efficiently in glass ceramic. These templates have been developed specifically to give optimum tool life despite the extremely hard nature of the material.

These new options will expand further Delcam's comprehensive range of software for the dental industry. Delcam is the only company able to offer a complete, open implantology solution, from accurately capturing the implant position and orientation, through to the high-precision, multi-axis milling of customised abutments, implant bridges and dental bars, with a management system to track every stage of the process.

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Delcam to Show New 5-axis Options in PartMaker at EASTEC

6 March 2013

Delcam's PartMaker Division will demonstrate the latest version of PartMaker CAM software for programming CNC mills, lathes, wire EDM equipment, turn-mill centres and Swiss-type lathes at EASTEC 2013 to be held in West Springfield, Massachusetts from 14th to 16th May. The exhibition will mark the official launch of PartMaker 2013 R2 which features much improved four- and five-axis simultaneous milling strategies.

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The new functionality, known as ASM-MX, or Advanced Surface Machining – Multi-Axis, applies across the entire PartMaker CAM suite, including the PartMaker Mill, Turn-Mill and SwissCAM modules. In addition to providing unique four- and five-axis simultaneous milling functionality, ASM-MX has also been priced cost effectively relative to other high-end milling CAM systems on the market.

One of the hallmarks of PartMaker ASM-MX, like other Delcam CAM systems such as PowerMILL, is that all the machining algorithms underlying the software are developed in-house, by Delcam's development team, the largest in the CAM industry, not licensed from a third party developer. This approach assures PartMaker users that they are getting unique functionality that will allow them to stay ahead of the competition.

The new milling strategies found in ASM-MX are based on the same unique approach to multi-axis programming used in PowerMILL, Delcam's industry leading CAM system for the manufacture of complex shapes. ASM-MX provides the user with complete tool-axis control for all five-axis simultaneous machining strategies.

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

"The new ASM-MX functionality in PartMaker 2013 R2 lets PartMaker users harness the power of four- and five-axis simultaneous milling in an intuitive and practical yet highly sophisticated and elegant manner," said PartMaker Division President, Hanan Fishman. "4- and 5-axis simultaneous machining practices are becoming more and more common in production machining environments. This trend is growing in popularity particularly among those working in the medical and aerospace fields. With more machine tools, including Swiss lathes from the likes of Star, Citizen and Tsugami, including a programmable 'B-axis', the functionality in PartMaker's ASM-MX will allow our users to meet their manufacturing challenges."

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SPRING Technologies & NCSIMUL Machine 9 Bring Mobility & Realistic Simulation to the Production Environment

7 March 2013

SPRING Technologies, vendor of solutions that optimize the use of complex NC machines, has chosen the upcoming Industrie show in Lyon, France to unveil its NCSIMUL Machine 9.

Visitors to booth 6-Y80 will be invited to discover the advantages of the new machining simulation solution – mobility, ergonomics and performance – demonstrated in the Windows 8 PRO environment.

CIMdata PLM Industry Summary

“NCEXPERIENCETM”, an innovative philosophy pioneered by SPRING Technologies, progresses the production environment into the age of mobility, ensuring that adopters enjoy better and faster access to information and greater flexibility in the workshop, with vital and reliable support to managers or operators, helping them in their decision-making processes wherever they are working.

“At our latest User Club, CUST 2012 in November, our customers from every sector of manufacturing confirmed that mobility in the Workshop was becoming a key to competitive performance”, explains Gilles Battier, CEO of SPRING Technologies. “We knew that this was going to be a vector for productivity and, today, NCSIMUL Machine 9 addresses their needs.”

INDUSTRIE SHOW– April 16 – 19, 2013, LYON, FRANCE – BOOTH 6-Y80

Announced as a world premiere in Paris on January 24, 2013, NCSIMUL Machine 9 is part of the NCSIMUL SOLUTIONS range that sets a new benchmark: “Smart Manufacturing”.

Integrated, intelligent, and instrumented, it marks a decisive step in the world of production and delivers a new experience that SPRING Technologies’ users call “NCEXPERIENCE”.

At the INDUSTRIE show, the company will be featuring the ergonomics of NCSIMUL Machine 9, a machining simulation solution that has been redesigned and developed to make it accessible to all everywhere. From a workstation, a tablet or a touch PC, NCSIMUL Machine 9 makes tool path simulation more realistic and more immersive, integrating all machine, tool, and material parameters.

STRENGTHS

- Enhanced user experience with an enriched 3D view, reinforcing adoption and interaction with the NC machine. In the Windows 8 PRO environment, NCSIMUL Machine Hub is a “tile” type application that provides one-click access to all available jobs.
- Streamlined ergonomics: the man-machine interface implements Microsoft Windows 8 PRO standards, notably ribbon mode capability. Other key features are intuitive, context-sensitive icons that facilitate use in touch mode.
- High-performance NC simulation: the result of a close partnership with Intel, NCSIMUL Machine 9 now implements algorithms that have been revised to make optimal use of multi-core processors and multithreading. Collision detection and material removal calculations are performed simultaneously, delivering quadrupled performance gains.

Olivier Bellaton, Managing Director of SPRING Technologies concludes: “Today’s upcoming ‘Y generation’ programmers really want to join companies that operate at the leading edge of technology. They know this is what makes the difference in the market place. Today, manufacturers who do not factor ultra-mobility into every stage in their corporate process will find it harder to hire people with the right profile. Making human resources and technology work together is the key to building the factories of tomorrow – smart factories!”

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Financial News

Stratasys Reports Fourth Quarter and Fiscal 2012 Financial Results

4 March 2013

Stratasys Ltd. announced financial results for the fourth quarter and fiscal year 2012, the first quarter of combined results for Stratasys, Inc. and Objet Ltd. following the December 1, 2012 completion of their merger.

Financial Results Summary (Pro Forma Combined Basis):

- Revenue of \$96.4 million for the fourth quarter of 2012 represents a 23% increase over the \$78.3 million recorded for the same period last year.
- Non-GAAP Net Income of \$16.3 million for the fourth quarter, or \$0.40 per share, represents a 40% increase over the \$11.7 million, or \$0.30 per share, reported for the same period last year.
- GAAP Net Income for the fourth quarter was a loss of \$3.5 million, or (\$0.09) per share, versus a loss of \$6.3 million, or (\$0.17) per share, for the same period last year.
- Revenue of \$359.0 million for fiscal 2012 represents a 30% increase over the \$277.0 million reported for same period last year.
- Non-GAAP Net Income of \$59.6 million for fiscal 2012, or \$1.49 per share, represents a 60% increase over the \$37.2 million, or \$0.94 per share, recorded for the same period last year.
- GAAP Net Income for fiscal 2012 was a loss of \$21.6 million, or (\$0.58) per share, versus a loss of \$30.9 million, or (\$0.84) per share, for the same period last year.
- Non-GAAP Gross Margins improved to 58.0% from 56.5% in fiscal 2012, and improved to 57.8% from 56.9% in the fourth quarter over prior year periods.
- GAAP Gross Margins improved to 45.7% from 40.8% in fiscal 2012, and improved to 46.1% from 42.9% in the fourth quarter over prior year periods.
- The Company has shipped 29,816 systems worldwide as of December 31, 2012.
- Fiscal 2012 year-end system backlog totaled \$28.6 million.

"Our financial results reflect the strong demand for our products driven by the rapidly growing interest in additive manufacturing worldwide, as more companies are recognizing how our technology can reshape the way their products are designed and manufactured," said David Reis, chief executive officer of Stratasys. "Our results and strong year-end backlog are made more impressive when you consider the significant amount of resources committed during the period to complete our game-changing merger, which included the initiation of an integration plan for our worldwide sales, marketing and service organization and their related support infrastructure. We are very pleased with our first financial results as a combined company."

To view an unabridged version of this press release,

visit: <http://investors.stratasys.com/releasedetail.cfm?ReleaseID=744770>

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Implementation Investments

Delcam CAD/CAM Software Chosen to Drive Monster 5-axis Machining Centre

4 March 2013

Delcam's PowerSHAPE design software and PowerMILL CAM system have been chosen by MonsterCAM to drive one of the UK's largest independently-owned, continuous five-axis machining centres. The company's EWW machine is 45 metres long, 7 metres wide and 4 metres high and has a volumetric cutting space of 1,260 cubic metres.

MonsterCAM was conceived by the Directors of two well established companies, modelmaking and patternmaking specialists, Curvature Group, and plug and production moulding company, Marine Concepts. The three Directors, with over 75 years' combined experience in machining, mouldmaking and composite moulding work, saw the need to have an integrated business that could make the investment required for such a large machine, as well as combining the skills and experience each company was able to offer.

The basis of the technical partnership was equally important in being able to maintain and control the costs so MonsterCAM could offer its highly skilled CNC plug/patternmaking service within the expected cost parameters that the marine sector had already been paying for work that had previously been contracted out for hand manufacture. This was seen as pivotal to the business's success, especially due to the current and certainly foreseeable global economy and how it has been affecting MonsterCAM's target clientele. MonsterCAM wanted to be able to bring this resource to the sector, and offer a better and more accurate service that their clients could effectively "turn on and off like a tap" when required, rather than setting up their own facility, which, more often than not, would not be cost effective.

The need for such a large piece of equipment was driven mainly by requests for larger and larger patterns from the two companies' marine customers. However, demand for the new capacity has also come from the wind energy and architectural sectors, and even from two customers that wanted full-scale replicas manufactured of two very different space shuttles!

Nick Phelps, one of the founder directors of MonsterCAM and owner of Curvature Group, stated that he had been using Delcam software for that company's own large five-axis machining centres for some years. However, this new investment was dealt with through fresh eyes, and he and his fellow directors in MonsterCAM assessed many different software systems before deciding which one they would ultimately use. Mr Phelps commented, "The decision was taken to stay with Delcam, and we have now,

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following many, many, machining hours, been very pleased that we decided to specify the Delcam software.”

On asking Mr. Phelps more about what his decision was based upon, he further stated, "Curvature Group is using a variety of CAM systems so the decision to use Delcam within MonsterCAM was also supported because EEW had the software in Germany. Also, it was felt that Delcam offered the best support. Most enquiries were handled immediately, and, whenever the support team needed to ring us back, they really did ring us back. That certainly hasn't been true of some of the other CAD/CAM suppliers that we use.”

This support has been vital for the new company as the size of the EEW machine meant that MonsterCAM would be machining on a scale rarely attempted in the UK before. Also the operator, Carl Perry, who had been seconded to MonsterCAM from Curvature Group and trained to operate the machine, had worked previously using three-axis machines only.

An advanced training course in PowerMILL soon put Mr Perry on the right track. "PowerMILL was very easy to pick up compared to some of the packages I have used; it is much more intuitive," he commented. "I needed a bit of experimentation to get the results I wanted immediately after completing the course but now I can do everything I need, from three-axis work to continuous five-axis milling, both quickly and easily. With PowerMILL, I can consistently machine to within 0.2 mm over the whole envelope of the machine.”

PowerSHAPE has also proved invaluable for most projects. "Nine times out of ten our clients will send a product design with either no run-off surfaces or no draft angle applied," said Mr Perry. "I need to manipulate this data with PowerSHAPE to complete the tooling design before I can start on the programming.”

MonsterCAM has grown its clientele significantly in the 18 months since the company first commenced machining. Two further machine operators have now also been trained at Delcam and, of course, have furthered this training in the workplace. Now MonsterCAM is fully capable of handling any projects and the pressures that these bring with them, while continuing to count on the valuable support provided by Delcam.

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Diversify and Save Time – Software Did it for Agetek

4 March 2013

The combination of Cabinet Vision and Alphacam woodworking software saves a kitchen and door manufacturer a full eight hours every working day.

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Agetek Kitchens and Doors was one of the first companies in Ireland to use Alphacam, as the software's predecessor was already installed when the Colton family bought the business in Tullamore, Ireland, 15 years ago.

But Cabinet Vision allowed them to diversify into manufacturing carcasses, which is now the major side of their business. Demand for doors declined as the recession hit, and Production Manager Adrian Colton says they realised kitchen cabinets were the way forward. "Before we invested in Cabinet Vision two years ago we didn't touch carcasses, apart from drawing up the occasional three-drawer lockers in Alphacam."

Now, with Cabinet Vision and Alphacam driving their SCM Record 130 and two Ergon routers – one of which is fully automated – turnover has reached 2-million Euros and business is thriving. As well as the carcasses for kitchens, wardrobes and office furniture, they also produce veneered cabinet doors along with bath panels and headboards, serving a customer base of around 500 from their 42,000 square foot premises.

Adrian Colton says the simple procedure for designing cabinets in Cabinet Vision Solid Ultimate Version 8 and then sending those designs to the CNC machinery with their Screen-To-Machine option, saves around three hours a day compared to the time taken to do those tasks manually.

"I'll feed the information about the customer's order into Cabinet Vision, draw the plan, layout the carcasses on the walls, and then when everything's ready the software takes over, creating the cutlists. Screen-To-Machine analyses the part geometries and automates the process of selecting the proper tools and order of operations, along with feeds and speeds, and sends the ready G-Code to the selected machine."

Another new service Agetek could not have taken on without Cabinet Vision, is regular drawer manufacturing. "We've designed macros for different sizes, then we just key in the number we want and Screen-To-Machine produces the nests, completely optimising material usage on our 9 x 7 mdf board. It cuts them out, drills them...it does everything."

He also estimates Alphacam's Cabinet Door Manufacturing (CDM) module saves a further five hours a day on door production. "Inside CDM we have a macro for each style of door, so when we're creating a CSV file based on the order, we simply include the macro we need, along with the relevant size, and load the file directly into CDM. Then we simply push a button and it generates the program. It couldn't be simpler. It creates correctly-sized doors putting them into a nest with the correct tooling in place. "Time is also saved because we only have to input key data once."

Adrian Colton and his Father, Frank, who is Agetek's Managing Director, both readily took to Alphacam programming...and now, 15 years on, they have a joint programmer/machine operator, Micheál Farrell, who is also proficient in Cabinet Vision. He says: "It can take up to half an hour for a sheet to be machined, giving me plenty of time to program the next job. This means the machines are

running virtually constantly with no down time.”

The main SCM Ergon router is fully automated. Once Cabinet Vision or Alphacam NC code has been sent, he loads a pack of mdf and a vacuum lifter puts the panels on the machine. He calls up the program, creates the nest or mix, and sets the machine to run however many sheets are required, before going back to the office to create the next program. And the full automation process finishes when the vacuum lifter removes the completed parts.

The time saved in designing and programming is invaluable, says Adrian Colton: “Without Cabinet Vision and Alphacam we probably wouldn’t even be in business, because the processes would be too slow and labour intensive, and wouldn’t be commercially viable.” The software gives them the capability to undertake bespoke work – off-standard door sizes, and being able to alter the shape, size and fittings for carcasses. “We can take on work that we couldn’t do before.”

And an added bonus comes from engraving wood for a joiner who has CNC machines but not the right software. Using the 3D Engraving function within all levels of Alphacam, he says: “It’s so simple, it’s almost silly! I write the text, place it where it needs to go on the panel, set the contours to automatic and click the engraving icon.”

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Intergraph® Engineering and Data Management Solutions Selected by Engineering Provider in Germany

7 March 2013

Verfahrenstechnik und Automatisierung GmbH (VTA), an engineering, procurement and construction (EPC) provider and 100 percent subsidiary of BP Europa SE, has purchased Intergraph® SmartPlant® Enterprise engineering and schematics suite and SmartPlant Foundation software and services. VTA sought intelligent solutions for process engineering, instrumentation and electrical engineering and design, as well as information management, to increase its customer-related services and engineering efficiency.

In a more than six-month benchmark process, VTA became convinced that SmartPlant Enterprise solutions were superior to Intergraph's competitors' software. VTA valued the system configuration, the integration with other tools and systems, and the effective tracking and change management applications. The first phase will see the implementation of SmartPlant Foundation and SmartPlant P&ID, and afterward the company plans to expand its portfolio to SmartPlant Instrumentation and SmartPlant Electrical Basic.

VTA offers innovative technologies, engineering services and automation technologies, as well as comprehensive application experience in the areas of refineries, petrochemicals, chemicals and environmental. VTA's range of services covers the entire project portfolio, starting with studies,

CIMdata PLM Industry Summary

planning, procurement and installation of quality control through to commissioning. The company's engineering projects include all areas of plant planning, ranging from feasibility studies, installation quality control through to commissioning support.

"To stay ahead of the game in the broad number of services we provide and in our various areas of interest, we need a flexible and scalable set of solutions that can easily integrate other systems and accommodate rapid change. This is what Intergraph SmartPlant Enterprise offers," said Nicolas Zartenar, engineering manager at VTA.

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "We are very proud of our long history of serving EPCs and owner operators in Germany. The deal strengthens Intergraph's position in BP and the German onshore sector, and it opens new opportunities among VTA regional engineering partners."

Intergraph's SmartPlant Enterprise offers a powerful portfolio of design and data management solutions, enabling companies in the process, power, and marine industries to capture integrated engineering knowledge at the enterprise level for the competitive advantage needed in today's and tomorrow's market.

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PT Zug Industry Selects Intergraph® SmartPlant® Enterprise

5 March 2013

PT Zug Industry (ZUG), an engineering, procurement and construction (EPC) company based in Indonesia, has selected Intergraph® SmartPlant® Enterprise solutions for the engineering design of power plants.

ZUG is an Indonesian EPC for the power industry, and it has been taking on projects of increasing scope and complexity where time to market is critical. The company determined that it needed a more robust solution that is integrated across various engineering disciplines, such as design, piping, instrumentation and others. After an extensive technical evaluation, ZUG chose Intergraph's integrated suite of SmartPlant Enterprise solutions, including SmartPlant 3D, SmartPlant Instrumentation, SmartPlant Reference Data and SmartPlant P&ID. The engineering firm recognized that SmartPlant Enterprise is proven technology, widely used by other EPCs for the power industry in Indonesia and around the world. The comprehensive SmartPlant Enterprise portfolio offers true integration across engineering disciplines and between design tools, enabling ZUG to capture engineering knowledge easily while producing accurate, high-quality reports and other engineering deliverables.

"SmartPlant Enterprise is user-friendly, making it easy for the engineering department to adopt and implement for our power plant projects," said Baban Mas, engineering manager at ZUG. "We will use Intergraph technology for the engineering design of power plants. We will expand our use of the

CIMdata PLM Industry Summary

integrated suite of SmartPlant Enterprise solutions as needed, which we can do with great ease due to its modular architecture. With dedicated support from PT Everest Technology, Intergraph's partner in Indonesia, we are confident that we will deploy SmartPlant Enterprise successfully."

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "Intergraph is the undisputed leader in the power industry, with SmartPlant Enterprise solutions delivering enhanced safety, productivity and quality. ZUG's decision to partner with Intergraph further strengthens our leadership position in the region and around the world, and we will work closely with ZUG to support its power plant projects in Indonesia."

SmartPlant Enterprise offers a powerful portfolio of design and data management solutions, enabling companies in the process, power and marine industries to capture integrated engineering knowledge at the enterprise level for the competitive advantage needed in today's and tomorrow's market. SmartPlant Enterprise's integrated suite of solutions enables proven productivity gains, improving engineering efficiency by up to 30 percent.

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Tier Consult Standardises on CSC's Fastrak, Orion & Tedds Software

2 March 2013

Sheffield-based Tier Consult has recently invested further in CSC's Fastrak and Orion software, for steel and concrete building design, and in Tedds for general structural calculations. In this latest move, Tier Consult has made all CSC's software available to all its engineers, together with unlimited technical support and training. Tier Consult will now capitalise on the automated design and seamless BIM integration provided by both Fastrak and Orion, and increase productivity by using the large library of automated BS and EC calculations within Tedds.

Wayne Ballance, Director at Tier Consult said: "Fastrak and Orion have already increased our productivity enormously. Our engineers can now design and optimise building schemes quickly, whilst seamlessly integrating the code-based design model with Autodesk® Revit®. We can synchronise the models repeatedly at any time we need and easily see what has been added, changed or deleted. Building only one model saves us significant time, particularly on larger schemes, and ultimately makes us more profitable."

For more information regarding CSC's products visit www.cscworld.com. For more information on Tier Consult visit www.tierconsult.co.uk.

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Product News

3D-Tool Version 10 - User Friendly CAD-Viewer makes it Easier to Work with Complex 3D Models

4 March 2013

CAD-Viewer displays the dynamic display of 3D models without an expensive CAD program. The goal is that all business departments, customers and contractors are able to profit from the expressiveness of 3D models. This makes coordinating processes easier and costly mistakes can be prevented. Because not everyone involved in the process has CAD knowledge, the intuitive handling of the Viewer, in addition to the detailed display of the complex models, is an important factor of success.

3D-Tool Version 10 has a clearly arranged user interface with practical everyday functions. At the push of a button, 3D-Tool provides the dimensions, the surface area and the volume for all parts of a model. Distances, angles and radii can be measured with simple mouse clicks further simplified by an intelligent pre-selection of measurement references. The parts of a model can be exploded automatically or by dragging them with the mouse. In combination with the animation feature this illustrates the design of complex assemblies.

For coordination or presentation purposes, the model can be published together with the Viewer as a standalone 3D-Tool file and used on any PC. This way each team member can examine the design without additional license cost, complicated software installations and especially without CAD knowledge. At the same time almost all 3D-Tool tools are available including sophisticated analyses like the check of draft angles and wall thicknesses. In addition to sharing a model as executable 3D-Tool file, 3D-Tool can publish models as a 3D-PDF file for the Acrobat Reader and as well as full-scale printouts and high resolution image files.

There are three versions of 3D-Tool available that differ in the supported 3D file formats. 3D-Tool Premium has the most extensive 3D interfaces which includes the standard formats such as STEP, IGES and Parasolid and native formats: CATIA, Pro/Engineer, Creo, Inventor, Unigraphics and SolidWorks. Additionally, it includes a converter that converts the native models to standard file formats. All versions of 3D-Tool support 2D drawings in the DWG, DXF and HPGL file format.

Depending on the version, a 3D-Tool single user license costs between 150 and 600 Euros. To view STL files, 3D-Tool offers a freeware version (3D-Tool Free Viewer). The full version can be tested for free with a Trial key. All downloads and further information can be found on the 3D-Tool website www.3D-Tool.de.

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Altair Releases HyperWorks 12.0 Providing Unprecedented Levels of Usability and Performance to Engineers

5 March 2013

[Altair](#) today announced the release of HyperWorks 12.0. HyperWorks 12.0 offers new functionalities and end-user productivity advancements in product optimization, finite element modeling, multiphysics analysis, powertrain durability analysis, lightweight design and many others.

"HyperWorks 12.0 provides automated and easy-to-use features that save time, ensure accuracy and improve products by making them lighter and by offering the opportunity for much more design exploration," said James Brancheau, Altair's Chief Technical Officer. "The very tight integration and interoperability of the open-platform HyperWorks suite allow engineers, designers and analysts to create and evaluate every aspect of their products with assurance that they have found the best design for their objectives."

The advanced capabilities within HyperWorks 12.0 emphasize performance improvements and enhancements in:

- Usability – aimed at time compression and providing easy access to CAE technology, including improvements to the model browsers, a new streamlined user profile for quick model setup (BasicFEA) and support for 3D visualization (HyperView).
- Advanced meshing algorithms – various meshing functionalities for shell and solid meshing, such as a mid-plane mesh generator with automatic thickness mapping from complex solid CAD geometry and the addition of quality control mechanisms (HyperMesh).
- Model Assembling – various sophisticated model assembly methods, including an automated connectors generation method, are available for faster assembly of complex models.
- Interfacing – enhanced interoperability of CAD import and export, composites interfacing and collaborative simulation data management.
- Powertrain Durability and large-scale NVH analysis and optimization – new and enhanced functionalities include one-step transfer path analysis (TPA) and a multi-level sub-structuring solver (AMSES) in OptiStruct.
- Explicit and implicit finite-element analysis – several new material laws and failure models for accuracy (RADIOSS).
- GPU support – the implicit solvers in RADIOSS, OptiStruct and AcuSolve add GPU support with a cost-effective licensing schema.
- Automotive extensions – allow co-simulation with third-party components for multi-body analysis (MotionSolve).
- Best-in-class optimization capabilities – speeds lightweighting of designs and now includes new manufacturing constraints for composite materials (OptiStruct).
- Noise levels prediction – new Ffowcs-Williams-Hawkings acoustic solver accurately predicts noise levels at distant microphone locations (AcuSolve).
- Smart Multiphysics simulation – novel multi-core licensing model cost-effectively leverages

CIMdata PLM Industry Summary

HyperWorks and Altair Partner Alliance solvers for high-end multiphysics problems.

- Design exploration, study and optimization – an entirely redesigned release of HyperStudy accelerates design robustness and reliability studies.
- Simulation-driven concept design tools – the most recent version of solidThinking Inspire allows designers to generate and explore structurally efficient concepts in the earliest phases of the design process, and solidThinking Evolve delivers a NURBS-based 3D modeling and rendering environment to create manufacturable models and render CAE results with unsurpassed photorealism.

The advancements in HyperWorks 12.0 received positive reviews from customer beta users. For example, Jonathan Gabrys, Technical Fellow of The Boeing Company, said, "The new 3D capability creates a fully-immersive environment that improves our ability to support conceptual design and analysis efforts. Specifically, being able to interrogate complex analysis results, such as stress fields or deflections, using 3D visualization provides an enhanced level of understanding."

In addition to the HyperWorks suite, Altair provides virtually limitless value and access to third party technology through the Altair Partner Alliance (APA). Directly accessed using HyperWorks Units (HWUs), today HyperWorks clients have access to wide variety of specialized software applications developed by nearly 30 different strategic partners.

With the launch of HyperWorks 12.0, Altair continues to increase the value, flexibility and portability of the HyperWorks licenses. The suite remains available "in the cloud" via HyperWorks On-Demand (HWOD), a platform that uses Altair's PBS Works suite for high performance computing (HPC) for work load management, job submission, monitoring and workload analytics. This allows easy access to cloud computing and subsequent accounting – all using HWUs, requiring minimal additional investment.

For more information on HyperWorks 12.0, please visit www.altairhyperworks.com/hw12.

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CadFaster Releases MyCadbox™

4 March 2013

CadFaster, Inc. (<http://www.cadfaster.com>) announced the public beta availability of MyCadbox™ (<http://www.mycadbox.com>). MyCadbox syncs 3D models and markups automatically between PC and iPad and makes model sharing easier than ever before.

As anyone working with CAD models will know, sharing and viewing of 3D models can be cumbersome. Large files, complex software and lack of mobile apps make model sharing difficult.

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Tracking files containing markups from different team members becomes a formidable challenge. MyCadbox is addressing this challenge with quick and easy model sharing and collaboration.

“Our clients told us that CAD models take too long to open and they are difficult to share for collaboration”, said Janne Hietanen, CTO, CadFaster. “MyCadbox optimization has reduced the opening time to a fraction of conventional tools’ opening time. MyCadbox enables quick automated sharing and immediate access to your CAD models on mobile devices and desktops.”

This public beta release of MyCadbox supports STEP format and is available today at <http://www.mycadbox.com>. MyCadbox iPad app is available through Apple at <https://itunes.apple.com/us/app/mycadbox/id581184797?ls=1&mt=8>. MyCadbox has Free and Pro versions.

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Free Supplier Certified Drawings for DraftSight™ Users Exclusively from TraceParts

5 March 2013

TraceParts announces the immediate availability of its TracePartsOnline.net part library exclusively for users of DraftSight™ CAD software from Dassault Systèmes. The new library is the first that allows over 1.3 million global DraftSight users instant access to 2D drawings from over 350 leading component supplier catalogs including: 3M, Advantech, Asco Numatics, Bosch Rexroth, Cepex, CGI, Clippard, DE-STA-CO, Facom, IFM, Igus, INA/FAG, Mädlar, Norelem, Nozag, Parker Legris, Pneumadyne, RS Components, Schmersal, Schmalz, Schneider Electric, Sherex, Zimm and more.

DraftSight users can freely access the library at www.tracepartsonline.net/ws/draftsight to browse specific catalogs, or use a powerful search engine for cross-catalog searches based on dimensions or other technical properties, to find the part they need. Once parts are selected, the user has access to real-time 3D viewing, a summary of the Bill of Materials (BOM) attributes, and then either download the 2D drawings, receive them by email, or directly insert them into their DraftSight design.

“TraceParts has been a valued business partner of Dassault Systèmes since 1998 and for many years we have been providing rich 3D models to all 3DContentCentral users”, said Gabriel Guigue, TraceParts Managing Director. “A key component of our business model is to support our CAD vendor partners by providing rich geometric content to the users of their software. Therefore we are very pleased to be the first content suppliers to provide the very dynamic DraftSight user community with hundreds of millions of certified supplier components that can be directly inserted into their 2D designs.”

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IMSI/Design Ships TurboCAD Pro and Pro Platinum

6 March 2013

CIMdata PLM Industry Summary

IMSI®/Design announced the release of TurboCAD Pro 20 and TurboCAD Pro Platinum 20.

"This is a big milestone for TurboCAD," stated Bob Mayer, COO of IMSI/Design. "It's been an honor to serve our CAD customers, both old and new, for over two decades. We think they'll find TurboCAD's new tools and enhancements worthy of a 20th anniversary release."

TurboCAD Pro v20 and TurboCAD Pro Platinum v20 new and enhanced features include:

More Realistic Renders

- New UV Mapping creates more realistic and varied materials for rendering

Superior Performance

- New RedSDK® v3 Rendering Engine makes several key operations faster
- New ACIS® R23 Modeling Engine for smoother operation

Improved Interoperability

- Improved AutoCAD 2013 (DWG) filter offers continued enhancements for working with the latest AutoCAD® and AutoCAD LT files
- New 3D PDF filter supports export of 3D models to PDF which can be interactively viewed with Acrobat Reader (since v7)
- New/Improved Collada (DAE) filter provides greater import/export accuracy and performance working with Google® Earth

Advanced Mechanical Design & 3D Modeling

- New Split Face Smesh Editing Tool allows for quick division of a smooth surface mesh face so you can more precisely define the area you want to modify
- New Extrude Face Smesh Editing Tool lets users to quickly extrude a smooth surface mesh face along an extrusion path
- New Gear Contour Tool quickly creates and aligns gear shaped objects. Adjust properties including teeth number, diameter pitch, pressure angle, angle of rotation, hole diameter, and thickness
- New Selector Option for 3D Booleans easily selects multiple objects for 3D Boolean operations (3D add, 3D Subtract, and 3D Slice) using one of the new super selector modes
- New Hole Operations - Pattern points defined by 2D patterns can be used for 3D hole operations

Greater Usability

- New AutoCAD 2D work-a-like mode allows users to switch from the tradition TurboCAD UI to the TurboCAD LTE UI, so users may work in an environment similar to AutoCAD with dynamic input and a command line
- New Export Coordinate Data derives point data from the geometry in models and drawings and exports the data in a standard CSV format
- New Print Window is a simply way to quickly print just what you want. Enter coordinate values, or simply drag the mouse over the area of your design you wish to print

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- New Super Selector Modes offer more precise control over object selection for faster, easier modification of your drawing
 - New Rectangle Selector Mode is a bidirectional selector
 - New Window Polygon Selector Mode only selects objects inside a closed polygon
 - New Crossing Polygon Selector Mode selects objects crossing or within a closed polygon
 - New Fence Selector Mode selects objects touched by an open polygon
- New Previous Selection Function added to the selector dragger allowing users to quickly jump back to the last selection with which there was a modification, and restore the selection

More Powerful Drafting & Detailing

- New Associative Arrays greatly expands TurboCAD pattern tools. Users can now rapidly create parametric 3D patterns from a wide variety of entities including ACIS Objects (previously available), Surface Objects, 2D Objects, 3D Objects, and Blocks
- New Patterns from Compound Profiles uses the 2D elements of patterns for 3D object creation via Compound Profiles
- New Entity Marks - Create custom marks to better track objects and add information including:
 - Property Sets Definitions – Data and visual components
 - Multi-View Blocks – Composites of blocks which can include property sets definitions and/or define varying appearances depending upon the viewpoint of the block
- New Protractor Tool helps users rapidly create construction lines in 2D and 3D with a powerful dynamic display
- New Stellated Polygon Tool creates star-shaped polygon objects in two clicks! Adjust properties for a variety of 2D/3D shapes
- Improved Associative Viewport Dimensions lets users add dimensions to an object through a viewport in paperspace and the dimensions will update if the model changes
- New Drafting Object Reference Point allows users to manually redefine the reference points of drafting objects so you can adapt to changes in the model
- New Dimension Function - Linear and angular dimension tools now allow users to specify a fixed length for line extensions and the value for that length

Customer Feedback Program (CFP)

- The new, optional CFP helps build a better TurboCAD that better meets customers' needs. By analyzing real-world trends and patterns in TurboCAD usage, CFP helps optimize current product features, make positive changes for future releases, and better measure product performance and quality

Network Management

- New Network Deployment Manager now allows network administrators to install, configure, and deploy multiple licensed copies of TurboCAD across your network server using Windows Server. Great for use in corporate, government, and educational settings

"The surprise feature in TurboCAD Pro 20 and Pro Platinum 20 may well be the new, optional AutoCAD 2D work-alike mode," added Mayer. "We think existing AutoCAD users will feel quite

comfortable and happy with the extra things they can do with TurboCAD."

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IronCAD Design Collaboration Suite 2013 Product Update 1 Released

6 March 2013

IronCAD, LLC, officially announced the immediate availability of the IronCAD Design Collaboration Suite 2013 Product Update 1. Working closely with customers, the suite of products has been further enhanced allowing IronCAD to continue offering real productivity gains to customers across the entire product development process.

The IronCAD Design Collaboration Suite is a complete range of products that include IRONCAD, INOVATE, IRONCAD DRAFT, TRANS, and IronCAD's latest product IRONCAD COMPOSE. Using the IronCAD Design Collaboration Suite products, users can leverage 3D within a 2D design process, conceptualize in 3D freely without regard to the modeling feature history order dependencies, interrogate and share designs throughout the enterprise, and can complete full 3D and 2D production designs.

Some of the productivity highlights in Product Update 1 include:

- **Dynamic Ellipsoid Shape** – Using IronCAD's Catalog Drag & Drop Design Methodology, a new building aid has been added that includes both a positive and negative Ellipsoid shape. Users can simply Drag & Drop this shape into a new part design or as a feature of an existing part creating an ellipsoid shape that can be dynamically controlled in size about all three size specifications using IronCAD's IntelliShape® Handles. Users can conceptually or precisely size the ellipsoid shape with a few simple edits of the IntelliShape handles reducing the need to create complex loft shapes for an ellipsoid resulting in increased design productivity.
- **Reduced File Size for 2D Drawings** – 2D technical drawings saved in the ICD format are now approximately 30% smaller in size reducing save times and freeing up disk space. This applies to both newly created drawings and existing drawings when saved in 2013 PU1.
- **Sheet Metal Support for Partial Cut Shapes** – Sheet Metal design often may require partial stamped features such as engraved text or material reduction areas. IronCAD's Sheet Metal Folded and Unfold operations now support and maintain these partially cut features (features that do not cut through the entire sheet metal part thickness) reducing effort required to define and maintain these areas in detail drawing callouts.
- **New Hole Callout Tool** – Customers can now manually add hole callout information to any hole geometry in the ICD drawing file. This can apply to IRONCAD's native custom hole features and even to imported or standard hole shapes. Users can quickly callout size and depth information for simple, counterbored, and countersunk holes.
- **Hidden Line Control at Part Level in Detailing** – New support has been added to allow users the

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ability to enable hidden line display on specified parts within a detailed drawing view. Previous support allowed hidden line display for all parts with a drawing view requiring additional time hiding undesired lines that may be displayed. This new capability dramatically improves productivity in the detailing by allowing users to quickly create the desired view display visibility directly at the part level.

- **Tree Browser Selection for Hide Parts** – A tree browser has been added to the hide part capabilities in the detail drawing views to allow precise selection of parts to be hidden or visible. Using this browser, users can increase their productivity by reducing guess work from selecting parts graphically in the 2D projected drawing views of the geometry to using the precise selection of the desired parts to hide within the tree browser.

In addition to these productivity improvements, Product Update 1 also includes more than 200 quality improvements in stability and performance. The IronCAD Design Collaboration Suite Product Update 1 is available for immediate download for customers on active Armor Advantage and Software Subscription contracts using the [IronCAD customer community](#).

"We are very excited to release this latest product update to our customers to further improve their overall productivity experience," commented Cary O'Connor, IronCAD's VP of Marketing, "By listening to our customer feedback, we have included powerful enhancements such as the new dynamic ellipsoid shape and many detailing features that help to reduce the design time and improve the quality of the Design Collaboration Suite Solution that let our customers continue to see real productivity improvements with our design solutions." he continued.

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MathWorks Announces Release 2013a of the MATLAB and Simulink Product Families

8 March 2013

[MathWorks](#) today announced [Release 2013a](#) (R2013a) of its [MATLAB](#) and [Simulink](#) product families. New in this release is the introduction of [Fixed-Point Designer](#), which combines the functionality of Fixed-Point Toolbox and Simulink Fixed Point. Also included are capabilities within [Phased Array System Toolbox](#) and [SimRF](#) that strengthen wireless and radar communications system design. R2013a also updates 80 other products, including [Polyspace](#) embedded software verification products.

For MATLAB, R2013a highlights include:

- **MATLAB:** Unit test framework for the MATLAB language
- [Financial Instruments Toolbox](#): Calibration and Monte Carlo simulation for Hull-White, Linear Gaussian and LIBOR market models
- [Image Processing Toolbox](#): Image segmentation using active contours, C code generation for 10 functions, and GPU acceleration for 11 functions
- [Image Acquisition Toolbox](#): Kinect for Windows sensor support for acquiring images, depth maps, and skeleton data

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- [Statistics Toolbox](#): Support vector machines (SVMs) for binary classification, PCA algorithms for missing data, and Anderson-Darling goodness-of-fit test
- [Data Acquisition Toolbox](#): Support Package for Digilent Analog Discovery Design Kit
- [Vehicle Network Toolbox](#): XCP support for accessing ECUs on CAN bus
- [Communications System Toolbox](#): Sphere Decoder and Constellation Diagram System objects
- [Computer Vision System Toolbox](#): Viola-Jones object detection training, FREAK feature extraction, and other new functions
- [DSP System Toolbox](#): Spectrum Analyzer and Logic Analyzer scopes and triggering of time scopes
- Phased Array System Toolbox: Polarization support, array tapers, and apps for sensor array analysis, waveform analysis, and radar equation calculation.

R2013a highlights for Simulink include:

- Simulink: Simulation Performance Advisor, masking of linked library blocks, and active variant control via logical expressions
- SimRF: Circuit Envelope solver for fast simulation and model load time
- [SimMechanics](#): Published XML schema for importing models from CAD and other systems
- [Simulink Design Verifier](#): Array out-of-bounds checking
- [Simulink Coder](#): Reduced data copies for Simulink functions called from Stateflow
- Fixed-Point Designer: A new product that combines the functionality of Fixed-Point Toolbox and Simulink Fixed Point
- [HDL Verifier](#): HDL testbench generation from MATLAB

Availability:

R2013a is available immediately. For more information, visit [Release Highlights](#).

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Mentor Graphics Announces Flowmaster Thermal Analysis Tool with New Capabilities for Meta-models, 3D Response Surface, and Fast Batch Simulation

7 March 2013

Mentor Graphics Corporation today announced several new capabilities for its Flowmaster® simulation software solution for thermo-fluid systems. From concept through design, optimization, and validation, the Flowmaster products are used at every stage of development so that engineers can minimize design effort to accurately simulate fluid flow and thermal analysis of their end-products. The latest release contains several significant features for pre-processing, simulation, data management, and design collaboration.

The new Flowmaster “experiments” capability harnesses the power of robust simulation within an

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exploratory methodology. It allows users to create response surfaces and export meta-model data as either standard ANSI C code or as S-Functions for use in a real-time environment providing support for hardware-in-the-loop simulations. Using a Latin Square algorithm helps users generate unique combinations of distributed input values between specific bounds. This ability creates an ideal foundation for designing experiments, and the creation of meta-models and response surfaces that characterize a Flowmaster system response.

“Our ‘experiments’ features in the new Flowmaster release continue to provide our customers with the ability to conduct superior ‘what-if’ analysis for fluid flow simulations,” stated Erich Buerger, general manager of the Mentor Graphics® Mechanical Analysis Division. “The ability to export Flowmaster models as C code or S-Functions allows us to support systems engineers performing system level testing of embedded systems in real-time environments.”

Additionally, Monte Carlo simulations can be performed to produce simulation results based on a probability distribution generated from a mean and standard deviation for selected input parameters. This allows the effect of small variations in input values to be examined and allows the Flowmaster product to be used in risk analysis and quality control environments such as Design for Six Sigma (DFSS).

With this latest release, systems engineers can now implement an integrated native 1D-3D solution by leveraging the power of the Flowmaster and FloEFD™ products. Computational Sciences Expert Group (CSEG) provides simulation services to automotive and aerospace OEMs by providing predictive analytical capability in the product design cycle. “With an increasing push towards analysis led design where simulation is required to provide design guidance before the prototypes are available, there is a strong need to characterize component performance data from CAD and design requirements” said Sudhi Uppuluri, principal investigator at Computational Sciences Expert Group. “Having access to the tightly coupled, general purpose 1D-3D CFD simulation of Flowmaster and FloEFD will enable us to characterize the more complex components of a system in 3D and insert those characteristics into the 1D system level models for simulation thereby taking advantage of higher accuracy for components and minimizing the computational resources and execution times at a system level.”

Additional capabilities found in this latest Flowmaster product release, targeting aerospace and automotive systems design applications, include:

- Improved thermal bridge for heat transfer analysis which automatically recognizes the transition between different flow regimes
- Dynamic journal bearing based on the popular Booker and Martin modeling for fluid flow analyses
- Advanced heat exchangers used to predict pressure drop and heat duty for single phase, cross-flow, compact heat exchangers
- Traceable data management for project sharing and effective project management

For more information on the Mentor Graphics Flowmaster technology and other products from Mentor’s mechanical analysis division, visit the company website at <http://www.mentor.com/products/mechanical/products/flowmaster>.

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New Vectorworks Architect Tutorial Available

7 March 2013

The fifth edition of [Vectorworks Architect Tutorial Manual](#) by Vectorworks trainer [Jonathan Pickup](#) of [Archoncad](#) is now available. This thorough, project-based training workbook has been updated for use with [Vectorworks Architect 2013](#) software and includes instruction about the following:

- Using layers and classes and developing an office layer and class standard
- Creating an office library
- Using the Property Line tool
- Creating and manipulating site models and using them for height-to-boundary analysis
- Using Walls and Wall Styles
- Understanding stairs and vertical transport
- Making a quick model of a project using spaces for bulk and location analysis
- Using annotation tools, title blocks, and the notes database to quickly annotate your plans

Although the example in the manual is a residential project, the principles learned can also be applied to commercial building design.

Please visit the [Training Guides page](#) for more information about this and other Vectorworks tutorials.

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Singletree Technologies Releases Intellimas 4.0, a Data Management Application for the Enterprise

5 March 2013

Singletree Technologies, a supplier of software to Retailers and Wholesalers in the Apparel Industry, has announced the latest release of its software product called Intellimas, an application that eliminates inefficient functions in legacy systems and reduces an organization's dependence on spreadsheets. Intellimas has new collaboration and exception management tools that enables it to better support business processes such as [Sample Tracking](#), Material Approval Tracking, [Product Costing](#), Vendor Compliance, Product Testing, WIP Tracking, and Quality Assurance. Singletree expects that this new version will provide a better alternative to custom development of legacy systems or managing disparate spreadsheets. Intellimas can bolt on to just about any [PLM](#), ERP, SCM, RMS, or CRM system.

“Apparel companies and their business partners have to manage massive amounts of data in order for styles to be approved for production,” said Vincent Candela, President of Singletree Technologies. “The fact that Intellimas presents data in a grid already gives our customers a head start. Version 4.0 now provides a dashboard with configurable alerts and exception driven searches. This allows end users,

managers, and vendors to prioritize their work and focus on specific product development problems which will increase overall business efficiency.”

“The new alert engine in version 4.0 of Intellimas captures the before and after values of every editable field,” said Shane Walters, CTO of Singletree Technologies. “This gives our customers supreme flexibility in directing the right alert to the right person, rather than clogging up in boxes with useless information.”

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ZWCAD+ Highlights Better Collaboration and Cleaner Drawing with Powerful Express Tools

4 March 2013

[ZWCAD+](#) has embedded more powerful express tools into its latest service pack to increase design efficiency. Focusing on customer feedbacks, the ZWCAD+ team find that overkill and drawing lockup are gaining in popularity among all the tools and applications, which can greatly help designers address the increasing need for collaborative design and reduce file size.

[Ray Howard](#), a civil engineer with 18 years of hands-on technical industry experience working in civil engineering and surveying, has commented on Express Tools in his [product review](#) for ZWCAD+, “ZWSOFT has been including express tools as a part of ZWCAD for several releases. This set of tools is the prerequisite for every power user.”

Unique Drawing Lockup for Better Collaborative Design

“The old way to encrypt a drawing is to save it in another format that does not allow file changes,” said Daniel Huang, Product Manager of ZWCAD+. “Such kind of method can retain design security, but it has ignored the need for collaborative design. In a design team, it will be inconvenient if their supervisor cannot move, cut or copy the drawing to make final adjustments.”

To better meet the need for better collaboration, ZWCAD+ provides a quick and easy approach to lock and unlock drawings. With [Drawing Lockup](#), designers can easily select and encrypt their finished drawings so that they don’t need to worry about their designs being changed. Moreover, users will also be prompted to set a password for unlock. Teamwork efficiency and productivity can be greatly improved by sharing more accurate designs with Drawing Lockup.

Clean-Up Master against Redundant Lines and Objects

Designers may have ever been plagued with drawings containing many overlapping elements, which distract designers and increase the possibility of wrong selection. Using [Overkill](#) in ZWCAD+, the designers can delete thousands of unnecessary elements at once and avoid rework. Designers can also ignore certain properties or choose their favorite features to meet special customized needs. Tests have shown that overkill can sharply pare down the amount of useless information, making their working environment clean and tidy in no time.

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ZWSOFT is committed to providing architects, designers and building professionals the tools they need to improve design efficiency, product quality as well as user experience. Besides drawing lockup and overkill, ZWCAD+ 2012 SP1 has developed other useful express tools such as Scale List and Mvsetup to further increase its industrial applicability. Try ZWCAD+ SP1 now and enjoy the efficiency brought by the powerful express tools, [click here](#) to download.

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