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CIMdata News

CIMdata Announces PLM Road Map™ 2015 for the High-Tech Electronics Community

27 January 2015

CIMdata, Inc., the leading global PLM consulting and research firm announces that the first-ever *PLM Road Map™ for the High-Tech Electronics Community* will take place on June 16, 2015. The event will be held at The Biltmore Hotel and Suites, Santa Clara, California, located in the heart of Silicon Valley. Now in their twenty-second year, PLM Road Map conferences bring together leading industry experts from CIMdata, key industry players, and front-line implementation experts who explore end users' progress, opportunities, and road blocks.

The theme for this conference is "Innovating in a Nanosecond World: How PLM Makes Innovation and Collaboration for the High-Tech Electronics Community Repeatable, Sustainable, and Scalable."

Having listened to the needs of industrial users and the preferences of solution providers alike, *PLM Road Map 2015 for the High-Tech Electronics Community* will continue CIMdata's focus on presenting a series of right-sized, one-day, content-rich conferences.

The high-tech industry is cyclical in nature—with extremely short development cycles—and has complex integrated and collaborative supply chain models. Additionally, high-tech companies tend to have multiple technical disciplines and tools. Regulation and compliance issues play an increasing role with complex restrictions that must be efficiently and accurately addressed. Presentations at *PLM Road Map 2015 for the High-Tech Electronics Community* will explore these challenges and others including: the causes for frequent design delays and sub-par product innovation that result when innovation must

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accelerate in this increasingly complex environment; and how PLM can and should play a key role in enabling innovation.

Central to the mission of PLM Road Map is encouraging the continuous collaboration and synergistic innovation between all members of the PLM community—including industrial users, subject matter experts, software providers, consulting services firms, industrial and academic institutes, system integrators, and market analysts—all of whom are partners in realizing the vision and value of PLM, especially in the emerging, more-sustainable, circular economy.

To support this collaborative mission, CIMdata is making a limited number of conference sponsorship opportunities available to PLM software and service providers.

For more information on *PLM Road Map 2015 for the High-Tech Electronics Community* or to be a sponsor at this event visit: <http://www.cimdata.com/en/education/plm-conferences/2015-plrmr-hte> or contact Cheryl Peck at c.peck@CIMdata.com.

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 providers 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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Design with Confidence: a CIMdata Commentary

29 January 2015

Key takeaways:

- *Smooth product launches require early identification and resolution of manufacturing, assembly, serviceability, quality, and cost issues, well before production*
- *Design for eXcellence¹ is a strategy successfully used to ensure that products meet customer requirements such as manufacturing cost, quality, reliability, and serviceability*
- *Companies are using Geometric's DFMPro solution to assess CAD models to identify DFX issues in the early design stage before any physical parts are produced, minimizing engineering*

¹ http://www.ami.ac.uk/courses/topics/0248_dfx/

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change orders (ECOs) and rework, shortening the design to production cycle, and improving product quality

Macro Trends in Manufacturing

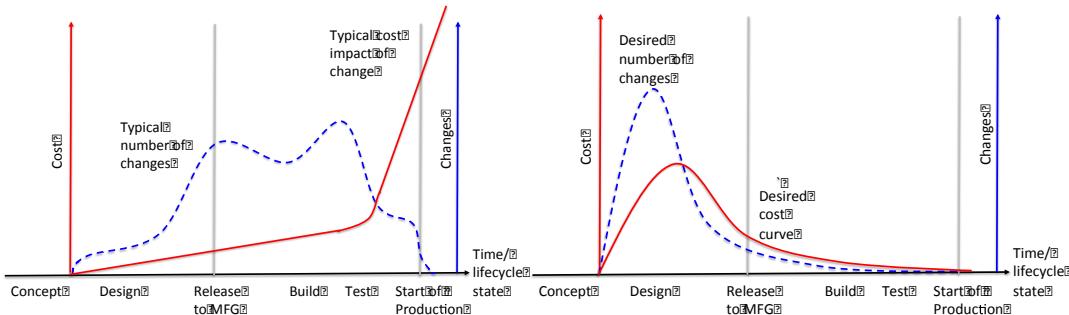
The pressures on manufacturers are relentless. Customers expect innovative products at lower cost and higher quality. Competitors are racing to meet the same expectations, shareholders expect a reasonable return on investment, and regulations continue to get more stringent. In addition to these external pressures, companies also have to manage significant internal pressures. Much has been written about the poor state of public education, which leads to a lower level of skills on the manufacturing floor. Companies have more workforce turnover than in past years, making it harder to develop and transfer knowledge internally. Knowledge is also lost as the workforce ages and older employees retire. Finding ways to capture and effectively transfer knowledge will help keep manufacturing companies competitive.

Designing and producing products to meet the variety of pressures and requirements is daunting. The knowledge needed to meet these requirements is stored in many different repositories including handbooks, product and industry standards, consultants, service groups, and in employees' heads as tribal knowledge. Accessing this wide variety of information and applying it is an ad hoc process at best, and a disaster at worst.

Design and manufacturing reviews are typically used to catch issues before production. Ideally cross-functional teams of experienced people review the product design and manufacturing processes to ensure it will meet all the stakeholder expectations. Unfortunately unexpected issues such as, a material is not available, an undercut area on a part wasn't identified, a consumable item cannot be replaced without complete disassembly, don't get caught and make it to the prototype shop or production floor. In addition, subtle issues such as tolerances being too tight or stack-up errors can add cost by requiring more sophisticated manufacturing processes, or cause scrap because of production difficulties.

The Change Loop

A key goal in most companies is to maximize return on investment (ROI), or profits. Making changes later in the product lifecycle is understood to be more expensive and risky. Smooth product launches require early identification and resolution of issues. Engineering change happens when the specification for a product or component is wrong and the documentation describing the product needs to be updated. There are many causes of changes ranging from simple mistakes to flawed concepts, to improvements from knowledge gained later in the product lifecycle. The graph on the left side of Figure 1 shows how costs due to changes typically vary over the product lifecycle. The graph on the right illustrates how investing more up front to get the design correct moves changes to an earlier point in the lifecycle where they are less expensive. To accomplish this shift is a never-ending task in most companies, and being able to leverage advanced design and manufacturing technology to ensure product designs are optimized before they get to production is a necessity.



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Figure 1—Impact on Cost of Change by Improving Design Process

When a product or component does not meet all its specifications, doing additional work can sometimes bring it into compliance with the specification and salvage it. This is commonly known as rework and always adds additional cost, but is usually better than scrapping the product or component. Rework and change, especially change that happens after the product is being physically produced is expensive and mostly avoidable. Well-documented processes, procedures, standards and guidelines help product developers get designs right the first time avoiding change and rework.

The cost of a product is established early in the product lifecycle, during the design phase before a physical representation is produced. The product's size, shape, functions, materials, and manufacturing processes are important elements that define and control the product cost. Modern software tools such as computer-aided design (CAD), computer-aided manufacturing (CAM), graphic design, spreadsheets, collaboration, and email are used to develop an electronic, virtual definition of the product at a relatively low cost. Minimizing total cost while meeting all product requirements involves consideration of many factors. This consideration in the design phase of product development is commonly known as Design for X (DFX) or Design for eXcellence. Figure 2 illustrates the areas that typically constrain a design. Each of these areas can consist of many elements. Some of the elements are well-known standards and industry best practices, but others can be proprietary and used to generate a competitive advantage. The key is to evaluate the product against all the appropriate constraints early in the lifecycle so changes can be incorporated early and at low cost.

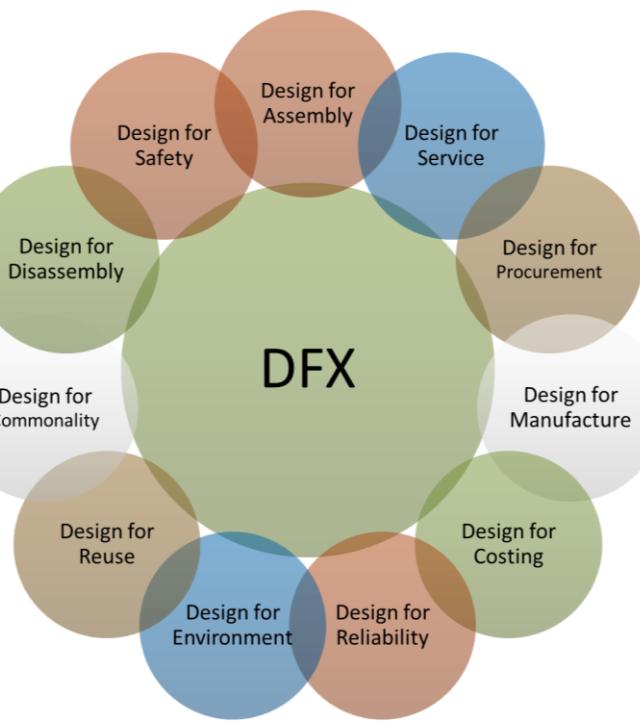


Figure 2—Common DFX Constraints
(Courtesy of Geometric)

Geometric's DFMPRO

Geometric provides software solutions spanning the product realization value chain to support manufacturing companies. The company provides software development services to most major

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CAD/CAM and PLM solution providers and also develops their own products focused on product realization, including DFMPRO and CAMWorks.

DFMPRO is an application that captures and reuses manufacturing best practices. The software consists of an extensible rules engine, and rules database supporting a wide variety of manufacturing processes including milling, drilling, turning, injection molding, die casting, sheet metal cutting & forming, as well as assembly, welding and tolerance checks. DFMPRO uses these manufacturing process-based rules to assess how well a process will work on geometry defined in a CAD model. These assessments identify issues while the product is still in its virtual state, reducing the cost of change. In future releases Geometric plans to support forging, deep draw sheet metal, additive manufacturing, metal injection molding, blow molding, composites, and tube/pipe bending among other processes.

DFMPRO comes preloaded with rules encoded from a variety of sources including handbooks, industry standards, standards governing bodies, proprietary Geometric knowledge, and customer feedback. Typical rules include draft and wall thickness for cast or molded parts, bend radii for sheet metal, and bolt thread engagement for assembled products. Custom rules can be added to support company-specific requirements. By automating the assessment process, DFMPRO runs checks consistently, and they can be run early and often so issues are addressed before they become problems, resulting in significant benefits for users. In addition, productivity is improved because mistakes due to lower skill levels are caught without human intervention.

DFMPRO supports most major CAD formats including CATIA, Creo, Inventor, NX, SolidWorks, Solid Edge, as well as neutral formats like IGES, Parasolid, and STEP. It can be run as a standalone application or within supported CAD tools (Creo, NX, SolidWorks). Its operation is relatively simple: open a CAD model, select the process to be evaluated, and review the results. Rule violations are displayed on the model and described textually. Reports can be generated automatically for offline review. While there are geometry and CAD file checkers available in the market, they focus on CAD-related issues not manufacturing issues. In a sense, DFMPRO functions as a spelling and grammar check for manufacturing processes.

CIMdata and Geometric reviewed several ROI examples in the automotive, aerospace, semiconductor equipment, and industrial equipment industries where Geometric customers estimated annual savings from using DFMPRO. Areas where savings were measured included rework, tooling, warranty & scrap, design throughput, and collaboration. In the examples, reviewed companies had from 82 to 200 designers and the total annual savings ranged from US\$2.7 to US\$5.1 million, an impressive result.

Conclusion

Getting the design right at the beginning is key to meeting product cost, quality, and time to market objectives. Changes or rework due to manufacturing issues are expensive because of investments in time and/or materials and impacts being discovered after most of the investment has been made. If issues are caught early in the design cycle, changes can be more easily accommodated and taken care of when the cost of change is lower.

Historically design reviews were done manually, but Geometric's DFMPRO enables many common issues to be identified automatically by the designer and remedied before the design review meetings even happen. DFMPRO can evaluate models from most common CAD tools against many common manufacturing processes, to identify potential issues early in the product lifecycle, helping to resolve issues early avoiding expensive changes later in the lifecycle.

CIMdata believes that incorporating a DFX strategy within design organizations can help companies produce better, more profitable products. Automating DFX processes with a tool like Geometric's

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DFMPro should help to move changes to the design phase where they are less expensive to implement and require less rework.

About CIMdata

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

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Acquisitions

GRAPHISOFT Acquires Cigraph Distribution Unit in Italy

22 January 2015

GRAPHISOFT announced that it has acquired the ArchiCAD and Artlantis distribution unit of Cigraph, its first distributor partner in Italy, as part of a strategic market development plan in Europe. As a result of this acquisition, GRAPHISOFT opened its Italian office on January 15, 2015.

GRAPHISOFT and Cigraph have agreed that GRAPHISOFT Italy will take on most of Cigraph's employees in its newly-formed Italian office. GRAPHISOFT Italy will continue to sell all GRAPHISOFT products with the current Italian ArchiCAD reseller partners, and will offer SSA services directly to customers located in Italy. Cigraph will continue operations from its current location. Cigraph's partnership with GRAPHISOFT dates back to 1984. With over 30 years of deep product and market knowledge in Italy, Cigraph will now focus on two core business activities:

1. Research on [ArchiCAD](#) and [Artlantis](#) training methods and services offered to the Italian market, and
2. Continued development of ArchiSuite, which will be expanded to include more vertical problem solutions than before.

"With this acquisition, we intend to accelerate our business growth in one of Europe's most dynamic architectural markets," said Andras Haidekker, GRAPHISOFT's Vice President for EMEA-Pacific.

"We are excited about this new phase in Cigraph's history, and look forward to continuing our efforts to grow the ArchiCAD market in Italy through expanded training and research opportunities," said Istvan Toth, President of Cigraph.

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Company News

Accenture Launches New Innovation Center for HP Technology

27 January 2015

Accenture has launched the Accenture Innovation Center for HP to help clients apply joint Accenture and HP technology solutions to specific industry and business process challenges in the areas of cloud, security and analytics. The innovation center allows clients to take advantage of next-generation solutions and services based on HP technologies, helping to accelerate time to value.

As part of Accenture's Global Delivery Network, the Accenture Innovation Center for HP provides clients around the globe with virtual access to development and demonstration environments that are enabled on an integrated technology platform that consists of current releases of HP software and hardware. The innovation center provides an immersive learning experience through day-in-the-life scenarios to illustrate innovative concepts and approaches, and hosts workshops to help clients gain a deeper understanding of how technology can be applied to address business requirements.

"The new Accenture Innovation Center for HP helps us demonstrate the art of the possible by incorporating people, process, technology and business strategy to provide our clients with a hands-on opportunity to experience innovative solutions," said Jim Hayes, managing director of global alliances at Accenture. "Accenture has worked with HP for more than 20 years and we are pleased to launch this innovation center in order to demonstrate to our clients how we convert leading practices and emerging technologies into business outcomes."

"We are proud to team with Accenture in the development of new, innovative solutions to help meet the requirements of our enterprise customers," said Sue Barsamian, worldwide senior vice president and general manager for Enterprise Group Indirect Sales at HP. "The launch of the Accenture Innovation Center for HP shows Accenture's commitment in working with HP to transform our joint customers' businesses through the New Style of IT, and can create value for our customers."

Combining Accenture's industry and functional experience with HP's technology, the Accenture Innovation Center for HP helps clients work with solution architects, technology specialists and developers to bring breakthrough innovations to life, validate them, and engineer them for faster time to value. Common services, industry leading practices and case studies are harvested from current and previous engagements and are combined with Accenture's insight into HP product engineering, current capabilities and product roadmaps to assist in the design of solutions that work today and are relevant for the future.

For example, the Accenture Innovation Center for HP can help clients explore the benefits they can realize from Accenture and the HP Helion portfolio of cloud products and services, such as speeding application development; reducing provisioning time through self-service catalogs and automation; increasing quality and consistency of delivery through standardized processes and automation; and reducing capital and operating costs through more efficient use of infrastructure and personnel.

The Accenture Innovation Center for HP is focused on helping clients in the following areas:

- Cloud – Examine how to build, consume and manage private cloud infrastructure solutions for workplace, network, datacenter and operations.
- Security – Explore innovative information security solutions including advanced security analytics with HP ArcSight and HP Vertica, and application security testing with HP Fortify.

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- Analytics/Big Data – Experience solutions on [HP's Haven platform](#) and SAP HANA.
- IT Strategy – Leverage Accenture's IT Operating Model assets in conjunction with HP's Executive Scorecard.

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BIMobject Launches Competition for young Architects and Designers

29 January 2015

BIMobject® is pleased to invite young designers to participate in the “Flow / Space” Competition, 2015. This year’s theme is about creating an inspiring atmosphere within a section of a shopping center. They look forward to receiving the designs and presenting the winners with some amazing prizes.

1st place - One 11-inch MacBook Air

2nd place - One Leaf Lamp Pendant 80, design by Peter Schumacher

3rd place - One 16 GB iPad mini 2 with Wi-Fi

BIMobject freely distributes high-quality digital replicas of manufactured products from various sectors and industries through a cloud based catalogue. This event will recognise creative ideas using BIM objects within BIM applications.

Brief

Participants are invited to create an interior from a template created by BIMobject. The participant is required to create their space with a target audience, theme and brand name. When creating the space only interior BIM objects, such as Green Furniture Concept (as well as others) from the BIMobject Portal should be used. Green Furniture Concept's products come in various shapes, colours and materials, these are an excellent start to create atmosphere and flow within a gathering/meeting place.

Entries will be judged based on the premises of flow, space and the atmosphere around gathering/meetings places.

Submissions must be completed no later than February 27th, 2015. The winners will be announced at [info.bimobject.com/competition](#) on March 13th, 2015.

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CADD Microsystems and Bluebeam Software Announce Partnership to Strengthen Project Collaboration

27 January 2015

CADD Microsystems, an [Autodesk Platinum Partner](#), today announced its partnership with Bluebeam® Software to enhance design technology solutions and promote project collaboration.

Combined with Autodesk and other applications, Bluebeam solutions enhance the processes in the project lifecycle that address CADD Microsystems' clients' needs and growth opportunities. With the powerful PDF enhancements that Bluebeam offers, digital collaboration within design-build projects is

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much more manageable.

CADD Microsystems customers can now purchase or renew Bluebeam licenses either as a new product purchase or as part of their Subscription renewal, and use CADD Microsystems as a single source for all of their design workflow assets.

"Our business is about partnerships, both with our clients and with the business partners who allow us to work with our design community at the highest level," said Matt Davoren, President and COO of CADD Microsystems. "We recognize that our clients need the tools to properly communicate their design intent and deliverables, working in a collaborative project environment. One of our core missions is to work closely within our design community, and our partnership with Bluebeam continues that theme by bringing the best technology for our clients."

"We are so excited to have CADD Microsystems as a Bluebeam partner," said Angela Boudreau, Channel Sales Specialist at Bluebeam. "They have a very successful track record serving their market, and are a great example of what we look for in our partners. They've hit the ground running and we are looking forward to a great partnership with CADD Microsystems,"

Bluebeam and CADD Microsystems are committed to offering top-of-the-line solutions to the architectural, engineering, construction and manufacturing industries for commercial and government clients, making information editable and sustainable through the entire lifecycle of a project, and making it easy for project partners to collaborate from anywhere.

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CADENAS goes UK: New Branch Office in Bristol

29 January 2015

Since the beginning of December 2014, CADENAS is represented with their own subsidiary within the United Kingdom. The new office CADENAS Solutions UK Ltd. is situated in the south west of England, in Bristol.

The managing director Colin Johnson advises and supports British and Irish engineers, purchasers and marketing managers on-site regarding topics such as Strategic Parts Management, and part reduction as well as Electronic 3D Product Catalogs.

"My aim is to offer customers high-quality software solutions and thus establish CADENAS Solutions UK as an important partner for companies of the mechanical, plant, and electrical engineering sector in the UK and Ireland", says Colin Johnson.

With the new subsidiary within the UK, the German software developer will continue to extend the relationships to existing business partners and address potential new customers in a more efficient way.

Further step for the internationalization of CADENAS

"The new subsidiary in the UK is the result of consistently pursuing our expansion course", says Jürgen Heimbach, CEO of CADENAS. "Also in the near future we will establish additional branch offices to support our customers worldwide in the best way to extend the global sales network of CADENAS."

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CIOReview Names Sigmetrix As 20 Most Promising Defense Technology Solution Providers

27 January 2015

[CIO Review](#) has chosen [Sigmetrix](#) for its 20 Most Promising Defense Technology Solution Providers. The positioning is based on an evaluation of Sigmetrix's capabilities in providing precise, easy-to-use mechanical assembly variation analysis and tolerance optimization software for mechanical engineers with its CETOL 6 Sigma Technologies. The annual list of companies is selected by a panel of experts and members of CIOReview's editorial board to recognize and promote technology entrepreneurship.

"Sigmetrix has been on our radar for some time for stirring a revolution in the Defense technology space, and we are happy to showcase them this year due to their continuing excellence in delivering top-notch technology-driven solutions," said Harvi Sachar, Publisher and Founder, CIOReview.

"Sigmetrix's solutions continued to break new ground within the past year, benefiting their customers around the globe, and we're excited to have them featured on our top companies list."

"[CETOL 6σ](#) is the dominant solution for variation analysis in the defense sector, as well as many other industries," stated Sigmetrix President, Chris Wilkes. "As a company that actually originated out of Texas Instruments / Raytheon, we're honored to be recognized by CIO Review's panel of experts and thought leaders."

Find more information on CETOL 6σ at <http://www.sigmetrix.com/tolerance-analysis-software-cetol.htm>.

Find more information on GD&T Advisor at <http://www.sigmetrix.com/gdt-software/>.

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Dassault Systèmes Inducts KPIT as its Newest Partner in India

28 January 2015

KPIT announced that it has successfully completed signing up with Dassault Systèmes as a Value Added Reseller (VAR) partner in India. The association will significantly drive up the engagement and revenue for Dassault Systèmes' Industrial Equipment industry business.

With expertise in Manufacturing and Supply Chain, Global Deployments and Project Management, KPIT will bring on board deep knowledge of the manufacturing domain and the surrounding systems to interface seamlessly with ERP deployments as well as process control systems.

Introducing KPIT as its partner in India Dr. Chandan Chowdhury, Managing Director-India, Dassault Systèmes said, "Manufacturing has now become the growth focus area for the economy and Dassault Systèmes is delighted to have on board a specialist like KPIT to support our endeavor to partner in the nation's growth strategy. KPIT combines industry knowledge with the expertise in surrounding enterprise technologies to deliver this and more."

Commenting on the partnership, Prabhakar Shetty, Head, Enterprise Solutions, KPIT Technologies said, "We were keen to strengthen our service offerings in manufacturing space and our partnership with Dassault Systèmes globally and now in India will help us achieve that. We are delighted to be part of the Dassault Systèmes ecosystem in India."

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EMA and Arena Solutions Form Strategic Alliance Yielding a Tighter Integration

27 January 2015

EMA Design Automation® (ema-eda.com), and Arena Solutions, today announced that they have formed a strategic alliance combining Arena PLM with EMA's data management solution for Cadence® OrCAD® to improve the overall user experience.

"Many of our customers are using Arena PLM today," said Manny Marcano, president and CEO of EMA. "By establishing this strategic alliance, our mutual customers can be assured that their product lifecycle data and their work in progress engineering data are in sync and work together as a unified system."

The OrCAD and Arena integration provides a number of benefits for organizations using both systems. Components from the enterprise PLM system are available directly within the OrCAD Capture CIS design environment making search, selection, and placement very simple. Parts listed as obsolete in the PLM system can be easily identified and swapped out in an OrCAD design. All parts added to a design are assured to be approved and preferred components. With a complete design containing accurate component information, OrCAD users can create zero touch BOMs because all required component information comes directly from their enterprise PLM system. Finally these BOMs are easily imported into Arena PLM for sharing with the rest of the organization.

Arena PLM provides product companies with a solution that gives all stakeholders, from internal engineers to key suppliers, access to the product record, ensuring that everyone has a single version of the truth. Because it is delivered as a service via the cloud, Arena deploys, scales and connects to the extended supply chain effortlessly. Plus, Arena is constantly updating the solution with new modules that add even more value. In the past 18 months, Arena has released:

- **Arena Scribe:** Gives customers an easy-to-use collaboration platform that provides a real-time commenting page available on any Arena Item, Change, Request, Supplier, Supplier Item, File, Project or Quality process;
- **Arena Quality:** Enables all stakeholders, including the extended supply chain, to participate in the quality process, which is available directly from the product record;
- **Arena Demand:** Provides manufacturers with visibility into their parts inventory to calculate aggregated component needs for their entire product portfolio, allowing them to better negotiate with their suppliers and contract manufacturers;
- **Arena Projects:** Connects the project schedule directly to the product record to increase visibility and accountability for new product introductions, quality improvement processes and cost reduction projects; and
- **Arena Exchange:** Offers OEMs a secure, flexible and traceable environment for collaboration with multiple users at different supplier levels throughout their global supply chain.

With Arena, technology, medical device and other product companies can speed prototyping, reduce scrap, and streamline supply chain management to collapse time to market.

"Improving the integration between OrCAD and Arena helps companies design products with fewer

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iterations, saving time, avoiding errors, and eliminating manual entry," said Steve Chalgren, vice president of product management and strategy at Arena. "This allows companies to bring products to market faster, reduce prototyping and scrap, and collaborate on product changes with strategic partners across the globe."

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GibbsCAM Reaches another Milestone

27 January 2015

Gibbs and Associates today announced that this month it delivered its 1,500th post processor for GibbsCAM, in support of a growing variety of Multi-Task Machines (MTMs) from 75 manufacturers. Each of the 1,500 post processors is uniquely developed and configured for a specific combination of MTM machine, machine options, machine control and shop-process preference. This milestone represents continuing adoption of MTMs for the productivity the machines can provide, and increased utilization of GibbsCAM to program the machines. GibbsCAM MTM post processors, in combination with GibbsCAM software – widely known for its shop-friendly interface – allows Gibbs to provide a unique solution to customers who own “standard” or “Swiss style” multi-task machines.

Gibbs has a staff dedicated to doing the machine and control research for the specific machine, and then developing, implementing and maintaining post processors for the customer. This service has proven most valuable to customers with MTM machines, because the machines require a specialized post processor that is unique to each machine configuration.

Multi-tasking machines require a CAM system capable of programming the complex combination of milling and turning within a restricted work envelope while synchronizing multiple tool groups and spindles to machine, transfer and release parts. This complexity, and the need to optimize programs for minimal production time and cost, drives MTM users to GibbsCAM because

1) programming and optimization is much faster and simpler with GibbsCAM, 2) the software can simulate machines of any configuration, and 3) GibbsCAM has the post processors to generate CNC code optimized for machine efficiency and shop-process preferences.

“The GibbsCAM post processor group has extensive knowledge of all types of lathes, mills, multi-tasking machines and their associated options and controls, and customers gain the benefit of this expertise by having us develop and maintain their post processors,” said Robb Weinstein, Senior Vice-President of Sales and Strategic Planning of Gibbs and Associates. “GibbsCAM MTM post processors get customers’ machines productive much faster, avoid wasting their CNC programming resources, and enable us to better serve them with the most versatile, effective, and easy-to-use solution for MTM programming.”

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Maplesoft and University of Waterloo Launch Online Mathematical Courseware

22 January 2015

CIMdata PLM Industry Summary

The University of Waterloo (UW) and Maplesoft have announced a partnership to provide effective, engaging, online education for science, technology, engineering and mathematics (STEM) courses. Combining rich course materials developed by the University with Maple T.A., Maplesoft's online testing and assessment system, and Maplesoft technology for developing, managing, and displaying dynamic STEM content, the collaboration has produced a [platform for engaging and efficient learning](#).

The first result of this collaboration is the Secondary School Courseware project from the University of Waterloo. The University's Centre for Education in Mathematics and Computing (CEMC) has launched a courseware site designed to support high school students and teachers in their Precalculus and Calculus courses. Interactive investigations and on-screen text with synchronized audio teach the concepts from Grade 12 Advanced Functions (Precalculus) and Grade 12 Calculus and Vectors. In addition, self-assessment questions, exercises, and solutions help consolidate learning.

The courseware provides a rich selection of freely accessible, engaging content for use by high school teachers and students around the world, and will help prepare students for university-level mathematics courses. The content enables teachers and students to interact with dynamic applications to explore concepts and deepen understanding. Self-assessment quizzes, which are powered by Maple T.A., provide instant feedback, allowing students to practice as much as they need, evaluate their level of understanding and even try out enrichment and extension questions.

“The CEMC’s mission is to support and promote mathematics and computer science education in Canada and around the world through a variety of activities and resources. Creating online courseware seemed like a natural next step for us as it provides free, high-quality curriculum content and increased flexibility to teachers, students and administrators,” said Ian Vanderburgh, Director of the CEMC at the University of Waterloo. “We were looking for an efficient way to provide effective online education for STEM courses and found a natural ally in Maplesoft. The university is already a significant user of Maple T.A., and Maplesoft’s proven technology made it possible to develop an effective content management platform with a world class math engine.”

“This partnership is a direct result of the commitment by Maplesoft and the University of Waterloo to encourage and promote the study and use of math amongst high school and university students,” said Jim Cooper, President and CEO, Maplesoft. “The University of Waterloo has a long history of excellence in mathematics, and now students everywhere will gain from the experience and know-how of the University, and Maplesoft’s expertise in technical education. This project is an excellent illustration of The Möbius Project, Maplesoft’s initiative designed to help institutions develop and provide STEM courses online.”

Work is already underway to use the Maplesoft-developed platform in other online courses offered by the University of Waterloo, including core math courses, as well as courses in optimization, modeling, computer science, and quantum information systems.

To begin using the Secondary School Courseware today, students and teachers can visit <http://courseware.cemc.uwaterloo.ca/>. No login or special software is needed to access the courseware.

Visit the [Centre for Education in Mathematics and Computing](#) for more information on the Secondary School Courseware project and other University of Waterloo initiatives in mathematics education. To learn more about how Maplesoft can help move STEM courses online through The Möbius Project initiative, [read this technical whitepaper](#) or contact [the Maplesoft Teaching Solutions Group](#).

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OPEN MIND Technologies AG: IMTEX Metalworking Trade Fair a Success for OPEN MIND

29 January 2015

After a week at IMTEX 2015, OPEN MIND is very pleased with the response to its hyperMILL® CAM/CAD suite. Current users as well as numerous interested parties obtained information on the functions available in the 2014.2 version of hyperMILL®.

Visitors to the booth were particularly impressed by the fact that the *hyperCAD*®-S suite contains a CAD component tailored to the special requirements of CAD users. The new solids module enables exceptionally efficient volume modelling. Users can now make changes to CAD models with direct modelling, which makes it possible to directly modify the geometry in a quick and flexible manner.

Faster roughing

Those who need to remove large amounts of material are always looking for ways to speed up machining. As a result, it is no surprise that the new functions in *hyperMAXX*®, the high-performance cutting (HPC) module for *hyperMILL*®, received a great deal of attention in Bangalore. New functions include plunging the milling tool into the material at pre-drilled holes, meaning it is no longer necessary to ramp in the milling tool at the start of machining. The greatest advantage of this method is that it protects tools, particularly when it comes to materials that are difficult to cut. The machining process is also checked for collisions. Furthermore, it is now possible to select a zigzag mode in *hyperMAXX*®. This mode is particularly suited to machining large workpieces, as it prevents time-consuming redundant movements, thereby significantly shortening machining times.

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PTC, ThingWorx, Axeda Win 2014 Internet of Things (IoT) Awards in Six Different Categories

27 January 2015

[PTC](#) today announced it won multiple honors in the [4th Annual Postscapes Internet of Things \(IoT\) Awards](#), claiming nearly a third of all awards made, including CEO of the Year, Best Platform (ThingWorx® Development Platform), Best Partner and Ecosystem Builder, Best Acquisition (ThingWorx and Axeda), Must Follow IoT Company (ThingWorx), and IoT Event honors (LiveWorx; next held May 5-7, 2015, Boston, MA). The scope of awards conferred on PTC and its recent acquisitions – ThingWorx and Axeda – demonstrate the strength of the company's ability to enable its customers to capture the value opportunities presented by the IoT.

"These awards collectively are recognition of PTC's overall IoT strategy," said Jim Heppelmann, president and CEO, PTC. "From thought leadership business frameworks to technology to partnerships to events to acquisitions, PTC is focused on giving companies the tools and technology needed to connect their products and create the applications that will empower them, and their customers, to thrive in this new world. These awards validate the strength of our vision, leadership and product offerings."

The Postscapes IoT Awards highlight and celebrate the year's best projects, companies and ideas helping to create the IoT. PTC won awards in the following categories as described by Postscapes:

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1. CEO of the Year. An exceptional company is a collective effort, but sometimes a visionary executive can elevate one player above the competition. Jim Heppelmann has set the vision and strategy for PTC to continually lead in the IoT era. From acquisitions to product technology to being a co-author of a visionary IoT piece in Harvard Business Review, Jim Heppelmann continues to demonstrate he is a leader.
2. Technical Enabler: Platform and Tools. Well-designed technology may be indistinguishable from magic, but that belies all the hard work and creativity that went on under the hood. The Technical Enabler awards acknowledge the elements that make it easier for everyone, from garage hobbyists to tech giants, to develop new products and services for the IoT. The ThingWorx Application Platform won this award because it enables companies to build and deploy IoT applications and connected solutions across all major industries as well as IoT applications including smart cities, smart agriculture and smart transportation.
3. Partner and Ecosystem Builder of the Year. Far more than a scattering of standalone products, the Internet of Things is a tightly-woven fabric in which lots of products and services work together organically. The Partner and Ecosystem Builder award goes to organizations that leverage industry connections to champion cooperation and interoperability. PTC delivers technology solutions that transform the way companies create, operate and service their products. PTC solutions enable manufacturers to achieve Product and Service Advantage in a smart, connected world.
4. Acquisition of the Year. Consolidation is inevitable in any growing industry, and this year the IoT land grab was in full swing. This award highlights the shrewdest and smartest deals that went down in 2014. In less than one year, PTC quickly scaled to a dominant position of IoT leadership in helping manufacturers seize the opportunity presented by a smart, connected world through its acquisitions of ThingWorx and Axeda.
5. Must-Follow IoT Company. Whether they've been in the IoT business for years or are just getting started, some companies seem to have captured more than their fair share of attention this year. The Must-Follow Company award commends the teams that have us all on the edge of our seats, wondering what they'll come up with next. ThingWorx, a PTC business, is the first platform designed to build and run the applications of the connected world. From Smart Cows to Smart Traffic to Smart Agriculture, it's being used in ways that have never been previously discovered.
6. Event of the Year. Conferences, expos and symposiums bring the community of connected technology innovators together. The gatherings that have the greatest impact on the IoT are distinguished with the Event of the Year award. LiveWorx, being held May 5-7, 2015 in Boston, MA will be the largest industry event for IoT leaders. This conference will be filled with customer-focused business and technical sessions, plus valuable network opportunities for attendees to help shape the future of IoT.

"The Annual IoT Awards were developed to honor and recognize industry leaders that are advancing the IoT industry," said Trevor Harwood, founder, Postscapes. "PTC made some impressive strategic maneuvers to position itself as a leader in connected products and services. The voting results clearly reflected that and we are looking forward to watching the company closely in the coming years."

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Redstack Now Offering Complete 3D Solutions Featuring MakerBot® 3D Printers and Accessories

22 January 2015

Redstack is pleased to announce the addition of MakerBot® to their expanding portfolio of 3D design and engineering solutions.

“Redstack is pleased to welcome MakerBot® to our growing portfolio of industry-leading 3d design and engineering technology solutions” noted Michael Lachs, Managing Director of Redstack.

Redstack will offer all MakerBot® products, including the newest generation of 3D printers: the award-winning MakerBot Replicator® Desktop 3D Printer, the MakerBot Replicator Mini Compact 3D Printer, and the MakerBot Replicator Z18 3D Printer with its massive build volume and the best price/performance in the extra-large professional 3D printer category. MakerBot Replicator 3D Printers are powered by the user-friendly MakerBot Replicator 3D Printing Platform, which offers an onboard camera, plug and play features, app- and cloud-enabled workflow, and available Wi-Fi connectivity. Redstack will also offer the MakerBot Replicator 2X Experimental 3D Printer, the MakerBot Digitizer™ Desktop 3D Scanner, and MakerBot Filaments and accessories.

MakerBot’s 3D printing solutions complement Redstack’s existing portfolio of 3D scanners, Autodesk technology, Apple hardware, CAD software and UAV solutions. Redstack now have the technology and expertise to deliver complete 3d design and engineering solutions linking reality capture, 3D design, simulation, animation, data management and 3D printing hardware and software solutions into a seamless workflow.

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Shashank Patkar Takes Over as Geometric CFO

28 January 2015

Geometric Ltd. announced that the company’s erstwhile Chief Mentor, Mr. Shashank Patkar will take over as the Chief Financial Officer and Global Head of Finance effective February 9th, 2015. Mr. Patkar takes over from Mr. Neeraj Dutt, who has decided to leave for personal reasons.

Shashank Patkar has been a part of the Geometric group since 1986 (when it was still a part of the EBE Division of Godrej & Boyce). He has played many key roles in the organization, including that of CFO from 2003 to 2007, and CEO of its joint venture company 3DPLM Software Solutions from 2007 to 2011.

Announcing the appointment, Mr. Manu Parpia, MD & CEO, Geometric said, “I am very pleased that Shashank has stepped up to take over as the CFO of the company. He was closely involved in setting up our information backbone, and has extensive knowledge and understanding of our financial operations. I am sure with his business acumen, connect with the investor community, and hands-on approach, he will be an immense strength to our finance organization. I take the opportunity to thank Neeraj for his contribution to Geometric’s progress”.

Mr. Patkar has over 28 years of experience in PLM and Engineering, and is one of the founding employees of Geometric. Before taking on the mantle of Chief Mentor, he served as the Chief Transformation Officer, responsible for driving Lean implementation, global process harmonization and

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reimplementation of ERP. Mr. Patkar is a Mechanical Engineer and holds an MBA from the S.P Jain Institute of Management & Research. He is a past President of Software Exporter's Association of Pune and represents Geometric on various industries and government forums in Pune.

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TCS Certified as Top Employer Australia 2015

23 January 2015

Tata Consultancy Services (TCS) announced that it has successfully been certified as a Top Employer in Australia 2015 by the Top Employers Institute. The annual international research undertaken by the Top Employers Institute recognizes leading employers around the world: those that provide excellent employee conditions, nurture and develop talent throughout all levels of the organisation, and which strive to continuously optimize employment practices. TCS Australia and New Zealand has been awarded the exclusive Top Employers Australia 2015 Certification.

The Top Employers Institute (formerly known as the CRF Institute) globally certifies excellence in the conditions that employers create for their people. It has just announced the results of this year's research into the employee conditions of significant employers in Asia Pacific. [TCS Australia and New Zealand](#) is one of the selected organizations to achieve the Top Employers Australia 2015 certification and is pleased to be officially recognized as a leading employer.

Crucial to the Top Employers process is that participating companies must complete a stringent research process and meet the required high standard in order to achieve the certification. To further reinforce the validity of the process, all answers were independently audited, meaning this research has verified TCS' outstanding employee conditions in Australia and New Zealand and earned them a coveted spot amongst a choice group of certified Top Employers.

The Top Employers Institute assessed the TCS employee offering in Australia and New Zealand on a range of criteria including Talent Strategy, Workforce Planning, On-boarding, Learning & Development, Performance Management, Leadership Development, Career & Succession Management, Compensation & Benefits as well as Culture.

David Plink, CEO, Top Employers Institute commented, "Optimal employee conditions ensure that people can develop themselves personally and professionally. Our comprehensive research concluded that TCS – Australia and New Zealand provides an outstanding employment environment and offers a wide range of creative initiatives, from secondary benefits and working conditions, to performance management programmes that are well thought out and truly aligned with the culture of their company."

Deborah Hadwen, CEO of TCS Australia and New Zealand said, "At TCS we realise that our greatest assets are our people. Having world class HR practices implemented locally assists our team to provide an environment that fosters learning and growth. One of TCS' key differentiators is our advanced learning systems which are designed to be offered anytime, anywhere that cater to the needs of our rapidly growing and mobile workforce. TCS is also able to provide exciting career path opportunities and related development needs resulting in exceptional employee engagement, low attrition and an ability to fill positions quickly. Being able to develop and retain our staff has enabled the business to grow at an exceptional rate."

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Events News

Autodesk's Ember 3D printer and ArtCAM JewelSmith Previewed at Spring Fair

29 January 2015

Delcam will demonstrate the new [Ember™ 3D printer](#) from Autodesk and a development version of [ArtCAM JewelSmith](#) with support for 3D printing at the Jewellery & Watch Fair to be held at the NEC, Birmingham, as part of the Spring Fair from 1st to 5th February.

Autodesk developed the Ember printer as a reference device for its open [Spark 3D printing platform](#). By using digital-light stereolithography to cure liquid resins, Ember creates complex, high-resolution objects, which is desirable for the casting of jewellery.

The Ember printer also offers a rapid build speed, having the capability to produce up to ten model rings in an hour or up to twenty model rings in less than 90 minutes.

Autodesk is offering access to purchase a limited number of Ember "Explorer Edition" 3D printers through its Ember Explorer programme. Ember is the first reference 3D printer built leveraging the Spark open 3D printing platform. Apply for access at<http://spark.autodesk.com/ember-explorer>

ArtCAM JewelSmith has been developed specifically to allow jewellery manufacturers to increase productivity, improve quality and deliver new designs more quickly, by combining their craft skills and creativity with the power and precision of computer-aided manufacturing. The software includes a gem library, which can be added to by the user, and the KeyShot rendering system, which creates extremely accurate and lifelike images for either customers or retailers to view, or for the production of catalogues and other marketing materials.

The 2015 release of ArtCAM JewelSmith makes it much easier to create complex designs, with a new 'putty' tool. This allows models to be edited by picking an area to be moved, swirled, pinched or puckered. It will be especially valuable when creating a series of variants on a repeating element in a design or subtly changing fine details within a model. In addition, many of the modelling options, including the new tool, now show the results of changes in real time.

Functionality currently under development at Delcam will allow future releases of ArtCAM JewelSmith to support 3D printing with Ember and other 3D printers.

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CGTech to showcase VERICUT Composites Applications Software at JEC

29 January 2015

At the 2015 JEC Composites show, March 10-12, 2015 at the Paris Expo, Porte de Versailles, CGTech will be demonstrating how critical simulation is when trimming composite parts. Throughout the show,

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in stand 36 Pavilion 7.2, CGTech will also be demonstrating VERICUT Composite Applications: VERICUT Composite Paths for Engineering (VCPe), VERICUT Composite Programming (VCP) & VERICUT Composite Simulation (VCS).

“Because composite workpieces have a significant amount of process time and labor in them prior to machining, they can be more expensive than even some exotic metal alloy workpieces,” said John Reed, CGTech Ltd Managing Director. “It’s usually not possible to repair a composite workpiece damaged during machining. Thus, validation of the part program is extremely critical.”

CGTech will be exhibiting its latest version of VERICUT software. VERICUT is CNC machine simulation, verification and optimisation software that enables users to eliminate the process of manually proving-out NC programs. VERICUT simulates all types of CNC machining, including drilling and trimming of composite parts, water jet, riveting, robotics, mill/turn and parallel kinematics. VERICUT runs standalone, but can also be integrated with leading CAD/CAM/ PLM systems, including Dassault Systemes CATIA, Siemens PLM NX CAM, Delcam PowerMill, Vero EdgeCAM, Open Mind hyperMILL, DP Esprit and Missler TopSolidCAM.

Visitors to CGTech’s stand will also have the opportunity to receive a thorough overview of the steps needed to get from a CAD designed composite part to CNC programs that drive an Automated Fiber Placement (AFP) or Automated Tape Laying (ATL) machine. There will be information on new projects that highlight the implementation and use of machine independent off-line NC programming software for AFP and ATL machines, such as the work being done at NASA's Langley Research Center using a 16-tow Electroimpact automated fiber placement machine. Current customer projects to be highlighted include extensive use of robots, lasers, probing, and ultrasonic knives.

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Delcam CRISPIN to display hybrid 3D print/leather shoes at SIMAC

27 January 2015

Delcam CRISPIN will demonstrate the potential of its ShoeMaker design software in the mass customisation of footwear by displaying hybrid shoes at the SIMAC exhibition to be held in Milan from 25th to 27th February. The hybrid shoes feature a leather upper, with the sole and heel produced by 3D printing, bringing together traditional and new methods of shoemaking in their creation.

The complete shoe model was developed in ShoeMaker, the only footwear design system that integrates fully 3D designs of lasts, uppers and soles, so allowing the complete CAD model of the shoe to be developed and visualised in a single system. This comprehensive functionality makes ShoeMaker the perfect solution for projects like Delcam’s hybrid shoe.

The new materials and increased design freedom offered by 3D printing are expanding the creative opportunities for footwear designers. Unhindered by the restrictions of conventional manufacturing, designers can let loose their creativity, paving the way for more projects in mass customisation and in meeting the most unusual and individual bespoke requests.

Delcam CRISPIN has always invested its development resources into providing a flexible design solution for its customers and is committed to providing software able to support the more extreme shapes that have been made possible by 3D printing. At the same time, the company recognises that more traditional methods will still provide the most appropriate manufacturing route for the majority of

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footwear projects.

"The situation with 3D printing is similar to that with many other technologies when they are first introduced," claimed Delcam's Chris Lawrie. "There are advocates claiming that it is the only future for the industry and more conservative commentators that regard it as the latest bit of hype."

"The real position is, as always, between the two extremes, with many projects where 3D printing will be the only possible approach able to meet the complexity of the design and just as many where only traditional methods will produce cost-effective results. The hybrid shoe project is intended to show that the two approaches can be complementary, rather than having to be competitive, and that Delcam CRISPIN software can provide a full range of product development tools for designers, regardless of the manufacturing route they wish to take."

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Industry Product Specialist Frank Brault to Discuss Using Software to Report Information from a Model at USITT's Annual Conference & Stage Expo

29 January 2015

Computer-assisted design models generate production documents that meet a multitude of entertainment industry needs. This is why Nemetschek Vectorworks Inc.'s Industry Product Specialist Frank Brault will discuss "Using Vectorworks Software to Report Information from a Model" at USITT's Annual Conference & Stage Expo, which takes place at the Duke Energy Convention Center in Cincinnati, Ohio, March 18-21, 2015.

In his session, scheduled for Thursday, March 19, 1-2:30 p.m., in Duke 252, Brault will discuss the capabilities of the worksheet feature in Vectorworks® Spotlight software, with examples ranging from simple formulas to database-driven worksheets. The presentation will also cover the initial creation of information-rich models and how to create worksheets that list and quantify objects within them. Targeted toward beginning and intermediate Spotlight users, Brault will cover some of the estimates, lists and schedules that lighting designers and tech directors encounter, including generating title block information for the cover page. Attendees will also learn how Vectorworks automatically creates two kinds of magic sheets from the light plot, helps to estimate the correct length of the jumper cable needed between any two points, as well as estimates quantities of lumber stock needed for scenery.

In his role at Nemetschek Vectorworks, Brault develops curricula and promotes best practices in teaching Vectorworks software. He also wrote the first versions of the software's online *Getting Started Guides*. Brault has more than 30 years of experience in theater and lighting design, software development and training through seminars, on-site training sessions and webinars. He previously created the Theatrical Lighting Toolkit, the precursor to Vectorworks Spotlight, and designed and coded the first version of Vectorworks Landmark. Prior to joining Nemetschek Vectorworks, Brault worked as a facilities design associate for Imero Fiorentino Associates in New York, where he managed projects including the lighting and rigging installation during the 1991 renovation of the Paramount Theatre in Madison Square Garden. In 1989, a project that he managed, The Illumination of the Rapids Above Niagara Falls, was nominated for a prestigious Lumen Award for excellence in lighting design from the Illuminating Engineering Society.

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ModuleWorks Celebrate Success in Dental Market at IDS

29 January 2015

At the International Dental Show in March, ModuleWorks will be celebrating the success of the ModuleWorks Dental product range. Originally launched back in 2009, the product aims to bring the benefits of hundreds of man-years of toolpath development technology from the CAM market to the Dental market. This has proved to be a major success with over 4000 end users already getting the benefit. It is estimated that 35% of all Dental CAM software sold in 2015 will use ModuleWorks technology.

Unlike many technology providers, ModuleWorks does not sell software to end users directly, but produces an OEM product which is built in to the software of a partner. ModuleWorks now works with many partners covering all aspects of the Dental market, and allowing the appropriate technology to be used wherever it is needed.

Customers include:

- CNC Machine makers. ModuleWorks technology is used to produce fully automated solutions for machining a wide range of dental indications.
- Dental Integrators. Combining the power of ModuleWorks machining strategies with specialised knowledge to produce optimum performance.
- Dental CAD companies. Adding ModuleWorks CAM functionality to state of the art Dental CAD functionality to give a full CAD/CAM solution.
- Dental Milling Centres. Using ModuleWorks technology and development capacity to produce bespoke systems to optimise production.

The rapid development of the ModuleWorks technology and its acceptance in the market can be seen by looking at the range of indications supported. To support such a range required highly optimized 3-axis and 5-axis Milling, and a range of Grinding functionality.

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Financial News

3D Systems Announces Conference Call and Webcast to Discuss Fourth Quarter and Full Year 2014 Results

27 January 2015

[3D Systems](#) announced today that it plans to hold a conference call and simultaneous webcast to discuss its financial results for the fourth quarter and full year 2014 on Thursday, February 26, 2015, at 8:30 a.m. Eastern Time. The company expects to release these financial results and to file its Form 10-K on February 26, 2015.

Date: Thursday, February 26, 2015

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Time: 8:30 a.m. Eastern Time

Live webcast: www.3dsystems.com/investor

Participate via telephone:

Within the U.S.: 1-877-407-8291

Outside the U.S.: 1-201-689-8345

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

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ANSYS to Release Fourth Quarter and YTD 2014 Earnings on February 26, 2015

26 January 2015

ANSYS, Inc. announced today that the Company expects to release its fourth quarter and YTD 2014 earnings on Thursday, February 26, 2015. The Company will hold a conference call conducted by James E. Cashman III, president and chief executive officer, and Maria T. Shields, chief financial officer, at 10:30 a.m. Eastern Time to discuss fourth quarter and 2014 results and future outlook.

CONFERENCE CALL INFORMATION:

What: ANSYS Fourth Quarter and 2014 Earnings Conference Call

When: February 26, 2015 at 10:30 a.m. Eastern Time

Participants are encouraged to pre-register for the conference call using the enclosed link. Callers who pre-register will be given a unique PIN to gain immediate access to the call, bypassing the live operator. Participants may pre-register any time, including up to and after the call start time. You will immediately receive an online confirmation, an email with the dial in number and a calendar invitation for the event.

To pre-register, go to:

<http://dpregister.com/10058823>

You may also reach the pre-registration link by logging in through the investor section of our website at <http://investors.ansys.com> and clicking on the Audio Webcasts link. Click the event under Upcoming Events.

For those who do not have internet access or are unable to pre-register, simply join the call on the day of the event by dialing (866) 652-5200 (US) or (412) 317-6060 (CAN and INT'L). Ask the operator to join you into the ANSYS Conference Call.

The call will be recorded with replay available within two hours after the call at <http://investors.ansys.com> or at (877) 344-7529 (US), (855) 669-9658 (CAN toll free) or (412) 317-0088 (INT'L). Passcode: 10058823

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Arena's Broader Product Footprint Drives Q4 Growth of 38%

28 January 2015

CIMdata PLM Industry Summary

Arena Solutions announced strong year-over-year growth from Q4 2013 to Q4 2014, with subscriptions increasing by 38%, capping off another record year for the company.

For the entire fiscal year 2014, new customer subscriptions grew by 76% year over year.

Arena's continued investment in the expansion of its product offering, especially over the past 18 months, helped drive this increase, with new deal size growing to record levels and a net retention rate for FY 2014 of 112 percent (net retention rate reflects annual customer renewals, fewer cancellations, plus expansion). A sampling of Arena's new products over the last 18 months includes:

- **Arena DataExtract**: Enables customers to extract all process data to a standard, flat file format, which can be analyzed downstream using a variety of customer analytic tools, from relatively simple spreadsheet applications to highly sophisticated business intelligence and analytics platforms;
- **Arena Scribe**: Provides customers an easy-to-use collaboration platform that delivers a real-time commenting page available on any Arena Item, Change, Request, Supplier, Supplier Item, File, Project or Quality process, all presented in a familiar 'social' user experience;
- **Arena Quality**: Enables all stakeholders, including the extended supply chain, to participate in the quality process, which is embedded in the PLM solution and is tied directly to the product record;
- **Arena Demand**: Allows manufacturers to forecast visibility into their parts inventory and calculate aggregated component needs across their entire product portfolio, letting them better negotiate with their suppliers and contract manufacturers;
- **Arena Projects**: Connects the project schedule directly to the product record to increase transparency and accountability for new product introductions, quality improvement processes and cost reduction projects;
- **Arena API**: Expands the information value chain captured in Arena PLM by allowing customers to easily integrate their enterprise application infrastructure with Arena PLM; and
- **Arena Exchange**: Offers OEMs a secure, flexible and traceable environment for collaboration with multiple users at different supplier levels throughout their global supply chain, with no incremental licensing or provisioning charges except for the original initiator.

"We've introduced powerful new features over the past 18 months. Our record growth again confirms customer validation of Arena's expanding footprint which seamlessly integrates to enterprise business systems. Our PLM solution accelerates NPI by harnessing the collaborative efforts of internal teams and supply chains alike." said Craig Livingston, CEO of Arena. "Not too many years ago our high value feature-set resonated best with the SMB market. Now that we're beyond feature-parity *and* still the most affordable, the global enterprise market is responding."

New customers in Q4 2014 include:

- **3D Robotics** is the premiere advanced drone, UAV, multicopter, autopilot and autonomous vehicle control company in the world.
- **Aerohive Networks** provides a mobility platform that utilizes the cloud and a distributed, controller-less architecture to deliver unified, intelligent, simplified networks that can be cost-effectively deployed.
- **Aurrion Inc.** leverages the capability and low cost of silicon IC manufacturing while retaining

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the performance of advanced non-silicon materials to provide a bridge between traditional III-V materials used for photonics and silicon in CMOS compatible platform.

- **DAQRI** is the world's leading augmented reality developer, providing custom software and creative solutions to clients across a broad spectrum of industries.
- **Echelon Corporation** designs control networks to connect machines and other electronic devices, for the purposes of sensing, monitoring and control.
- **Hayward Industries** is the world's leading manufacturer and marketer of residential and commercial swimming pool equipment.
- **Pulse Secure** makes industry-leading solutions to empower seamless mobility via its line of virtual private network, network access control and mobile security products.
- **RPC Technologies** has been the leading supplier of corrosion resistant, structural FRP (fiber reinforced plastic) fabrications, piping and ducting systems, acid resistant heavy duty linings and specialist composite products for defense.
- **Turtle Beach Corporation** is a technology company that develops innovative audio products for consumer and commercial markets.
- **Thermo Fisher Scientific** enables its customers to make the world healthier, cleaner and safer by accelerating life sciences research, solving complex analytical challenges, improving patient diagnostics and increasing laboratory productivity.

"2014 was a truly extraordinary year for Arena," said Ken Bozzini, CFO at Arena Solutions. "Our new modules along with the bundled pricing we've created have driven our average deal size to a record level, and our net retention rate clearly demonstrates how well customers have responded to our road map. We have even bigger plans for 2015, so we fully expect to once again beat 2014's record-setting performance."

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EMC Moves Announcement of Financial Results to January 29

26 January 2015

Due to what is widely expected to be a major winter storm across the Northeast, which will impact business and travel safety throughout the region, EMC Corporation has moved the date it will publish fourth-quarter and full-year 2014 financial results by one day from January 28, 2015 to January 29, 2015 at approximately 7:00 a.m. ET. EMC will also issue an advisory news release on January 29, 2015 announcing availability of the results via the [EMC Investor Relations](#) and the [U.S. Securities and Exchange Commission](#) websites.

EMC will hold a conference call for investors at 8:30 a.m. ET on January 29 to review the fourth-quarter and full-year 2014 financial results. A live webcast of that call will be available on the EMC Investor Relations website.

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EMC Reports Full-Year 2014 Financial Results, Record Fourth-Quarter Revenue

29 January 2015

EMC Corporation today reported fourth-quarter and full-year 2014 financial results. Record fourth-quarter consolidated revenue was \$7 billion, up 5% year over year. GAAP net income attributable to EMC was \$1.15 billion, an increase of 12% compared with the year-ago quarter. GAAP earnings per weighted average diluted share was \$0.56 in the fourth quarter, up 17% year over year. Non-GAAP¹ net income attributable to EMC was \$1.4 billion, an increase of 10% compared with the year-ago quarter. Non-GAAP¹ earnings per weighted average diluted share was \$0.69, up 15% compared with the year-ago quarter.

Full-year 2014 revenue was \$24.4 billion, an increase of 5% year over year. GAAP net income attributable to EMC for 2014 was \$2.7 billion, down 6% year over year, and GAAP earnings per weighted average diluted share was \$1.32, down 1% year over year. Non-GAAP² net income attributable to EMC for 2014 was \$3.9 billion, an increase of 1% year over year, and non-GAAP² earnings per weighted average diluted share was \$1.90, an increase of 6% year over year.

For 2014, EMC generated \$6.5 billion in operating cash flow and \$5 billion in free cash flow³. The company closed 2014 with \$14.7 billion in cash and investments. In the fourth quarter EMC repurchased approximately \$1.6 billion worth of its common stock and returned approximately \$240 million to shareholders via a quarterly dividend. Over the course of 2014 EMC returned \$3.9 billion to shareholders through the repurchase of \$3 billion worth of its common stock and approximately \$900 million via quarterly dividends.

Joe Tucci, Chairman and CEO, said, “EMC demonstrated solid performance in the fourth quarter and over the course of 2014. Our strategy is working well despite a challenging and rapidly changing IT environment. The company stands at the forefront of our industry with a leading portfolio of solutions and services to help customers optimize their existing infrastructures and build new ones that take advantage of opportunities created by cloud, mobile, social and Big Data. We enter 2015 financially strong and well positioned to continue capturing greater market share.”

Zane Rowe, EMC CFO, said, “EMC is establishing a solid foundation for the future, while also delivering near-term growth as we transform our business. Thanks to the unified team effort, in 2014 EMC grew revenue and EPS, gained share, increased our dividend and accelerated our buyback program – returning \$3.9 billion to shareholders. Our strong operational results were impacted by currency fluctuations and EMC's investments in high-growth businesses. While we expect these factors to continue to impact 2015 results, we remain focused on driving growth for shareholders and delivering best-in-class solutions for customers.”

David Goulden, CEO of EMC Information Infrastructure, said, “In 2014 EMC II invested aggressively in key technology areas, innovated across all businesses, and continued to extend our lead in slower-growing but massive storage markets while making enormous strides in faster-growing areas like all-flash, where we are also the market segment leader. We delivered new and differentiated solutions, like the Enterprise Hybrid Cloud solution to help customers bring cloud agility and flexibility to existing applications and a platform for rapid deployment of new applications – a key differentiator for EMC. We also continued our leadership in converged infrastructure, helping customers transform their IT infrastructure by significantly reducing time to deploy and cost to manage new IT infrastructure. Collectively, this will serve us well in 2015 and ensure our continued lead in information infrastructure well into the future.”

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

<http://www.emc.com/about/news/press/2015/20150129-earnings.htm>

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OpenText Reports Second Quarter Fiscal Year 2015 Financial Results

27 January 2015

Open Text Corporation announced its financial results for the second quarter ended December 31, 2014.

Financial Highlights for Q2 FY15 with Year Over Year Comparisons

- Total revenue was \$467.8 million, up 29%
- Recurring revenue was \$392.0 million, up 39%
- Cloud services revenue was \$151.3 million, up 259%
- Customer support revenue was \$179.5 million, up 3%
- License revenue was \$75.8 million, down 7%
- Foreign exchange negatively impacted total revenue by \$15 million ⁽⁴⁾
- Non-GAAP-based EPS, diluted was \$0.97 compared to \$0.79 up 23%; GAAP-based EPS, diluted was \$0.60 compared to \$0.45 up 33%, on a post stock-split basis.⁽²⁾
- Non-GAAP-based income from operations was \$153.3 million and 33% of revenues, up 36%; GAAP-based income from operations was \$110.6 million and 24% of revenues, up 50% .⁽²⁾
- Foreign exchange negatively impacted non-GAAP-based EPS by \$0.03 ⁽⁴⁾
- Operating cash flow was \$109.6 million, up 80% with an ending cash balance of \$542.8 million

"The OpenText strategy is resonating with customers as our year over year financial highlights reflect; particularly, our cloud services results are up 259% and we expanded non-GAAP-based operating margin to 32.8%," said Mark J. Barrenechea OpenText CEO. "Further, we enter calendar 2015 with our strongest product line up ever, including our new EIM Suites 10.6, more customer options in the OpenText Cloud, new OpenText Core, our expanding Business Network, and now, analytics by means of our Actuate acquisition. The acquisition of Actuate enables OpenText to significantly enter the world of business analytics, allowing customers to analyze and visualize a broad range of structured, semi-structured, and unstructured data."

"The underlying strength of the business performance was partially offset by the strength of the US dollar against most currencies and notably the Euro. Compared to the beginning of Fiscal Year 2015 exchange rates, in-quarter total revenue was negatively affected by \$16 million and non-GAAP-based EPS was negatively impacted by 4 cents," said John Doolittle, OpenText CFO.⁽⁴⁾

Business Highlights

- OpenText buys Actuate Corporation
- OpenText buys Informative Graphics Corporation
- OpenText issued \$800.0 million in aggregate principal by way of 5.625% senior notes due 2023 in a private placement on January 15, 2015

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- 15 customer transactions over \$1 million, 6 in the OpenText Cloud and 9 on-premises
- Financial, services and technology sector industries saw the most demand
- Cloud customer successes in the quarter include Schneider Electric Industries, Nestle S.A. and Nestle Purina Pet Care
- License customer successes in the quarter include DB Schenker, Insurance Australia Group, Singapore Power, IGATE, Fox Entertainment Group, Monster Beverage Corp., GEMA, Airbus and The Bosch Group
- OpenText launches data centers to support customers in Japan and across the Asia-Pacific Region
- OpenText launches OpenText Core, a new enterprise-grade cloud information management solution
- OpenText named one of Canada's Top 100 Employers for the fourth consecutive year

For more detailed information including charts and disclosures please visit:

<http://investors.opentext.com/releasedetail.cfm?ReleaseID=893141>

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PTC Announces Q1 FY'15 Results; Provides Q2 and Updated FY'15 Outlook

28 January 2015

PTC reported results for its first fiscal quarter ended January 3, 2015.

Highlights

- **Q1 Results:**
- Non-GAAP revenue of \$327 million, up 1% over Q1'14 non-GAAP revenue and up 4% on a constant currency basis; unfavorable currency movements vs. year-ago rates impacted revenue by approximately \$12 million.
- Non-GAAP EPS of \$0.50, up 1% year over year and up 12% year over year on a constant currency basis; unfavorable currency movements vs. year-ago rates impacted non-GAAP EPS by approximately \$0.05.
- Subscription solutions bookings ⁽¹⁾ represented 19% of License & Subscription Solutions (L&SS) bookings ⁽²⁾, above our guidance assumption of 15%. We believe this higher than expected level of subscription solutions, while positive long-term, reduced L&SS revenue by \$3 million and non-GAAP EPS by \$0.02.
- Non-GAAP operating margin of 21.4%, down 400 basis points year over year and down 270 basis points on a constant currency basis.
- GAAP revenue of \$325 million, GAAP operating margin of 11.6% and GAAP EPS of \$0.26
- Non-GAAP revenue contribution from acquired businesses Atego (acquired on June 30, 2014), and Axeda (acquired on August 11, 2014) was \$14 million.

⁽¹⁾ Subscription solutions bookings are new subscription solutions annualized contract value (ACV) bookings multiplied by a conversion factor of 2. Annualized contract value (ACV) is the total value of a new subscription solutions bookings divided by the term of the contract (in days) multiplied by 365. If

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the contract term is less than one year, then the ACV is the actual value of the contract.

⁽²⁾ L&SS bookings are new license revenue plus subscription solutions bookings.

- **Updated Guidance:**
- Please refer to Table 2 for detailed guidance and key assumptions

A reconciliation between the GAAP and non-GAAP results for Q1'15 is contained in the tables attached to this press release.

Results Commentary

James Heppelmann, president and chief executive officer, commented, "We had a solid quarter with 4% L&SS bookings growth, 4% non-GAAP revenue growth, and 12% non-GAAP EPS growth on a constant currency basis. Having established a leadership position in the market for smart, connected products during FY'14, our results in Q1'15 suggest we are seeing good customer traction for our Internet of Things (IoT) solutions, as we added 42 new IoT customer logos in the quarter. We believe growth in IoT, when combined with our strong product offerings in the CAD, PLM, ALM, and SLM markets, positions PTC as the foremost provider of solutions to help customers create, operate and service smart, connected products. In addition, with the Q1'15 rollout of subscription pricing across the vast majority of our products, customers now have greater flexibility in how they engage with PTC. We were encouraged to see solid customer acceptance of this offering, with subscription solutions bookings in the quarter representing 19% of our L&SS bookings, which was higher than our expectation of 15%. Furthermore, approximately 60% of Q1'15 revenue came from recurring revenue streams, up from approximately 53% in the year ago period."

Heppelmann added, "Looking at Q1'15 results, PTC non-GAAP revenue exceeded the high end of our guidance range, driven by higher than expected support and professional services revenue. Non-GAAP L&SS revenue of \$80 million was flat year over year on a constant currency basis (YoY CC) while L&SS bookings increased 4% YoY CC. From a geographic perspective, we saw good L&SS YoY revenue and bookings results in Japan, the Pac Rim, and Europe offset by a difficult compare in the Americas due to strong performance in FY'14." Please refer to Table 1 for a breakdown of our L&SS performance by solution area and region.

To view an unabridged version of this press release, visit: <http://www.ptc.com/about/news-room/press-releases>

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TXT e-solutions: 2014 Revenues

26 January 2015

In 2014 TXT e-solutions expects revenues of approximately € 55.8 million, 6% growth with respect to 2013. Both TXT's Divisions contributed to growth: TXT Perform, specialist of End-to-end Retail in Luxury and Fashion grew +8% and TXT Next, specialist of Software for Complex Operations & Manufacturing grew +4%.

International revenues are expected to account for 86% of the TXT Perform division and for 57% of total sales for the Group.

In Q4 2014, software revenues (licences and maintenance) are expected to grow +24% to € 3.3 million

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and revenues for services +6% to € 10.8 million. Total Revenues are expected to reach € 14.1 million, compared to € 12.9 million in Q4 2013.

EBITDA for Q4 2014 is expected to slightly decrease compared to Q4 2013 due to higher R&D expenses for development of Agile-Fit and in-memory solutions (+15%) and higher commercial investments in North America and Europe (+13%). EBITDA for full year 2014 is expected to show a percentage growth higher than revenues due to non-recurring income (€ 1.1 million).

The financial position as at 31 December 2014 was positive by around € 8.5 million (€ 8.6 million as at 31 December 2013 and € 7.1 million as at 30 September 2014) following distribution of dividends for € 2.6 million, payment of bonuses to employees for € 2.2 million and share buybacks for € 0.5 million.

Main new contracts for the fourth quarter of 2014 include Ecco (D), a Danish shoe and accessory manufacturer and retailer with products distributed in over 4,000 locations worldwide, Orsay (F) a young women fashion retailer with over 620 stores in 26 countries in Europe and with a fast growing on-line business, Auchan (F), a consolidated customer that further extended the use of TXT solutions, USCG Community (USA), the US Coast Guard franchise, Peek & Cloppenburg (D) an international chain of retail clothing stores with headquarters in Germany and operations in 15 countries and Longchamp (F) a French luxury leather goods company present all over the world through more than 236 boutiques and a total of more than 1,800 stores in some hundred countries.

To view an unabridged version of this press release, visit: <http://www.txtgroup.com/Documents/CS%20-%202023%201%202015%20-%20Preview%202014%20ENG.pdf>

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Implementation Investments

Calsonic Kansei North America Looks to Streamline Sourcing and Reduce Product Costs With aPriori

26 January 2015

[aPriori](#), today announced that it has been selected by [Calsonic Kansei North America](#), a Tier 1 supplier of automotive parts and systems integration. The company will use the software platform to automate its product cost estimating process and increase the speed and accuracy of its responses to customer requests for quote (RFQs). aPriori's solution will enable Calsonic Kansei to rapidly estimate the cost impact of different design changes and alternatives so it can determine the best sourcing options and quickly and confidently respond to new business opportunities.

Calsonic Kansei North America Cost Analysis Training (CAT) Team will initially evaluate deployment of aPriori within its US Purchasing group. They will consider how well Buyers will be able to quickly estimate costs for products and parts based on a variety of potential routings and manufacturing processes to identify the best cost solution. And use aPriori to monitor supplier costs against Calsonic Kansei developed "should cost" targets.

"With aPriori's intuitive computer-aided cost estimating platform, we expect to quickly estimate detailed part and tooling costs with accuracy we require," said Jeff Wiencek, purchasing manager, Cost Analysis Training (CAT) Team at Calsonic Kansei North America. "Having this capability would enhance our ability to identify the best and most cost-efficient solutions for our customers before tooling is built,

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providing us with an important competitive advantage.

"We selected aPriori platform for its potential to enable our buyers' to use their awareness of key cost drivers and ensures we are sourcing the parts and tooling we need for our customers at the right price," Wiencek added. "These practices help sustain and continue to develop the world-class capabilities of Calsonic Kansei North America's purchasing organization as well as our valued suppliers."

The aPriori software works with 2D user-guided input and leverages computer-aided design (CAD) and intelligent cost models to quickly and automatically generate detailed manufacturing analysis and cost estimates from initial designs. It also quantifies the impact of changes to product design, materials, manufacturing processes, volumes and location in real time. Calsonic Kansei will also use the software to create a centralized database of product costs while taking into account the variables associated with its different manufacturing locations.

"Calsonic Kansei is staying ahead of its competition by equipping its organization with the capability to source the best possible solutions for its customers and do it more quickly, accurately and efficiently," said Stephanie Feraday, president and CEO of aPriori. "The ability to investigate multiple design and routing alternatives and understand their cost implications in real time, is a huge advantage in the automotive business. They have the opportunity to drive tremendous ROI as a result."

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Dan Post Boots/McRae Industries, Inc. Selects CGS's BlueCherry® Enterprise Suite to Power their Fundamental Business Processes

26 January 2015

[CGS](#), a leading global provider of business applications, enterprise learning and outsourcing services announces that after an extensive evaluation and due diligence process, Dan Post Boots selected CGS's BlueCherry® Enterprise Suite to replace the company's existing software to maximize efficiency, enhance the accuracy of decision-making data and gain around-the-clock system support. Dan Post Boots is a wholly owned subsidiary of McRae Industries, whose core businesses is manufacturing military boots for the United States government.

As Dan Post Boots operations began to extend beyond the traditional 9-to-5 business framework, the footwear company realized it needed a system with the capacity to scale up its functionality as it continued to grow. To achieve this goal, Dan Post Boots selected the best-in-class BlueCherry enterprise suite of solutions including: omnichannel merchandise planning (OCMP), product lifecycle management (PLM), collaborative supply chain (CSC), advanced warehouse management (AWS), business intelligence (BI), electronic data interchange (EDI) capabilities and Microsoft® Dynamics® AX Accounts Payable and General Ledger for fully-integrated corporate financials. The company also selected the BlueCherry Threadvine wholesale solution to enhance sales capabilities and accelerate the wholesale sales and buying process.

"BlueCherry gives us the tools to accelerate our growth without worrying that our business systems can't keep up the pace," says Gary McRae, Chief Executive Officer, McRae Industries, Inc.

"BlueCherry will deliver real-time business visibility that will enable us to improve strategic decision making and become more agile. After an extensive selection and due diligence process, we decided to select CGS based on their ability to deliver a comprehensive solution that meets all of our long term

CIMdata PLM Industry Summary

technology needs across the entire group.”

“We are excited to partner with Dan Post Boots and McRae Industries as they continue to innovate and grow,” said Paul Magel, President of the Application Solutions Group at CGS. “We look forward to delivering a scalable integrated business solution that will allow them to streamline their entire operation and help meet and exceed their business challenges well into the future.”

About McRae Industries/Dan Post Boots

McRae Industries was founded in 1959 by Branson J. McRae. McRae Industries’ Footwear division has provided quality combat boots to the men and women serving in the U. S. Army for over 40 years.

In 1996 McRae Industries purchased American West Trading Company, a manufacturer and seller of a variety of western boots. During the 2002 to 2006 time period, the array of McRae Industries’ western boot products was significantly enhanced by the acquisition of several popular brand names – Dingo, Dan Post and Laredo. The company’s name was changed to the Dan Post Boot Company to more closely identify our products in the western boot market. Introduced in the mid-1960s, the Dan Post brand is synonymous with “Handcrafted Cushion Comfort.” Crafted with the finest exotic skins and premium leathers, Dan Post employs technologically advanced materials to ensure that your boots are comfortable from the first step.

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Petit Bateau chooses Lectra Fashion PLM

29 January 2015

Lectra is pleased to announce that Petit Bateau has adopted Lectra Fashion PLM to accelerate product development cycles and reduce lead times.

Petit Bateau is a French brand since 1893. The brand is active in over 60 countries and designs, produces and markets clothing, underclothing and pajamas for babies, children and adults. Petit Bateau is member of the Rocher Group since 1988.

Petit Bateau’s main objective is to preserve its know-how, an essential aspect of its DNA, while expanding activities internationally. “Preserving our 120 year history and our unique know-how while expanding our distribution network is our main challenge. We are convinced that Lectra Fashion PLM can help us meet this challenge,” declares Pierre-Antoine Perrot, Chief Operations Officer at Petit Bateau.

“Our design and pattern-making teams can attest to the importance of Lectra’s expertise. Lectra helps us challenge ourselves and adopt better industry best practices. This is priceless,” says Nathalie Lempereur, Collection Director at Petit Bateau. “Today, Lectra helps us make daily decisions,” specifies Pierre-Antoine Perrot.

Petit Bateau’s objective is to optimize product development. “The time spent on product development slows down our growth today. Lectra Fashion PLM offers more flexibility and agility and thus allow our teams to be more reactive,” adds Pierre-Antoine Perrot. “Quality and sensory pleasure are two values inherent to Petit Bateau’s DNA. Quality symbolizes our authenticity; our clothes touch the skin and are linked to intimacy with our customers, which, in turn, impose tough development constraints and high standards of quality. Lectra Fashion PLM helps us manage these constraints,” continues Nathalie

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Lempereur.

Each year Petit Bateau develops 180 colors, 120 fabrics and 2000 references. The brand decided to implement Lectra Fashion PLM to accelerate development phases and improve collaboration between design, development and production teams. “We have complex information systems and numerous databases that are managed by different contributors to the garment design process. We needed tools that were plugged in a platform to reduce time to market,” continues Anouck Olry, Organisation Development & Corporate Social Responsibility at Petit Bateau. Lectra Fashion PLM will allow Petit Bateau to work from a unique, consistent and live set of information, shared by all departments.

“The objectives are to reduce the time spent on product development and enhance team innovation at the same time,” explains Jean-Sébastien Rousseau, Product Development & Purchasing Director at Petit Bateau. By eliminating administrative tasks, Lectra Fashion PLM will allow Petit Bateau teams to focus on design and product development.

Petit Bateau wishes to design more capsule collections, develop partnerships and they believe Lectra Fashion PLM can also be an ally in this endeavor. “We wanted to speak our partner’s language and use their tools. This is the reason why we selected Lectra Fashion PLM,” continues Nathalie Lempereur.

“We are delighted to partner with Petit Bateau. Thanks to the work of both teams, this major French brand will be able to optimize their product development process and reduce time-to-market to achieve their goals and develop an ambitious international roll out strategy,” concludes Daniel Harari, Lectra CEO.

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YuniquePLM™ Improves Speed to Market for Spanish Fashion Brand Encuentro Moda®

28 January 2015

Encuentro Moda®, a Spanish fashion brand, has selected YuniquePLM™ to provide a centralized platform for its retail, design and manufacturing operations. YuniquePLM has streamlined Encuentro Moda’s product lifecycle management – decreasing time-to-market for their apparel and accessory lines.

YuniquePLM, designed specifically for the fashion and retail industries, features a robust functionality in a web-based platform, for seamless integration with existing ERP systems. Teams around the world can communicate more effectively, accelerate their workflows and reduce errors.

Encuentro Moda offers a complete line of casual and work wear for women, including jackets, knitwear, trousers, jeans, dresses and accessories. The company began as a wholesale business, and has transformed to a large, retail fashion brand. In 2014, the company reached 100 retail stores, with plans to open 15 additional stores in 2015. Its distribution network consists of four subsidiaries, located in Tenerife, Madrid, Barcelona and Shanghai. As their design-creation, manufacturing and distribution were located in different regions, the company sought out services that would ensure optimal collaboration among all units.

“We are delighted to have Yunique Solutions accompany us in our continued growth,” said Encuento Moda President Raul Mendez. “Our decision stems from Yunique Solutions’ proven international presence, depth of experience and professionalism of its team. We look forward to fully utilizing the powerful benefits that YuniquePLM offers, including optimizing our internal processes, automating tasks and ultimately increasing our speed to market.”

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Bill Brewster, vice president and general manager of Yunique Solutions, said, “We congratulate Encuerto Moda in the recent opening of their 100th store and look forward to our continued partnership. As companies like Encuerto Moda become more international in nature, the value of a centralized solution cannot be overstated. By having information in a single location, errors and miscommunication can be reduced or avoided, ultimately increasing speed-to-market.”

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Zweave Implements PTC FlexPLM for Avalanche Outdoor Apparel in Two Months

23 January 2015

Zweave, Inc. has sold and delivered [PTC's FlexPLM solution](#) to Avalanche Outdoor Apparel Co, a family owned and operated outdoor apparel company in historic Salem, Massachusetts known for quality and value in the outdoor apparel industry. Zweave is a leading IT solutions company who specializes in selling and delivering Product Lifecycle Management (PLM) solutions to the Retail, Footwear, Apparel and Consumer Products industries. Zweave is the only Value Added Reseller (VAR) for PTC FlexPLM and is focused on the Small to Medium-Sized Businesses (SMB) segment.

Zweave has developed a new, streamlined PLM implementation methodology called Fast-Forward™, which implements PTC Windchill FlexPLM in mid-market companies in the retail and consumer products manufacturing markets. The Fast-Forward methodology delivers rapid results by focusing on best practices and aligning future-state processes with leading PLM software capabilities. Fast-Forward includes deliverable templates, which represent Zweave and PTC best practices derived from more than a decade of experience delivering PLM solutions to the largest retailers and consumer products manufacturers.

Talia Petrucci, VP of Design & Development, [Avalanche Outdoor Apparel Co.](#), said, “”We are excited to surpass our homegrown systems and purchase PTC FlexPLM from Zweave to streamline our data sources to deliver more accurate product information, as well as scale our growth. PLM is becoming necessary to compete in today’s fast pace environment, but deciding whether or not to adopt PLM has been a challenge for us due to a reputation for being difficult to implement, having high cost, and requiring a lot of resources to maintain. Our doubts disappeared when Zweave designed and introduced an amazing new method which included a quick implementation process that had our company up and running on PLM in less than 2 months with no disruption to our operations. Zweave was able to eliminate the barriers that would normally cause delay in adoption and offered us a leading PLM system that was quickly and easily deployed. We now have increased productivity, efficiency and a better overall design process.”

David Buck, Chief Executive Officer of Zweave, said, “We are proud to work with PTC to provide Windchill FlexPLM to smaller businesses in the retail, footwear, and apparel industry. For the Avalanche implementation, we incorporated best practices, unique methodologies and tools to rapidly implement FlexPLM in 6 weeks. This approach is dramatically faster than a typical PLM implementation schedule. By using our Fast-Forward methodology, we reduced the deployment time significantly, and we can now offer the lowest cost to implement PLM in the consumer products industry. Our approach now enables small to medium sized businesses to adopt the same PLM solution used by the industry leaders. Fast-Forward has revolutionized the way PLM is deployed.”

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Product News

Altium and Valydate Announce Strategic Partnership with New Design Analysis and Verification Technology

28 January 2015

Altium Limited and Valydate Inc. announced a strategic partnership aimed at easing the time-consuming visual inspection and debugging process of electronic schematics with ValydateVERA, a powerful design analysis and verification tool, which will integrate seamlessly with Altium Designer. This new technology will be unveiled January 27-29 at DesignCon 2015 and will aid in streamlining the design process and save designers countless hours from having to visually inspect schematics for errors.

“This is yet another exciting extension that expands the current electronics design environment in Altium Designer,” said Daniel Fernsebner, Director of Technical Partnerships for Altium. “Our partnership with Valydate is moving the design process forward with a new set of validation tools that will save designers countless hours and money in schematic inspection checks and streamline the entire design process for improved time-to-market.”

Rising Complexity of Electronics Design

The rising complexity of modern electronics design has ushered in a multiplying set of rules and verifications that must be manually checked at present for schematic design errors regardless of which design software they use. Throwing manual validation into the mix by a designer has a dramatic impact on time-to-market pressures and the fear of design respins due to missed errors.

ValydateVERA has effectively streamlined this entire process. With VERA’s integration in Altium Designer, designers can now automatically inspect their schematics against a pre-defined checklist that takes advantage of an intelligent component library that automatically checks for thousands of error violations in schematic designs.

“We’ve seen a steadily increasing number of customers working with complex designs who had no choice but to manually check their schematics for thousands of potential errors which adds up to countless wasted hours,” said Jason Hingston, CTO at Altium. “This partnership with Valydate has extended the efficiency of schematic design in Altium Designer and paves a path to greater customer satisfaction and design reliability for all electronics designers.”

Moving the Design Process Forward

Like other extensions offered by third-party companies for Altium, ValydateVera integrates seamlessly in the electronics design environment in Altium Designer as an available plug-in for all customers. The product is expected to be available later this quarter.

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ANSYS Unveils Release 16.0

27 January 2015

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From simulating the interactions between software and hardware that fuel the Internet of Things to better understanding the full spectrum of advanced structural materials, the newly released ANSYS® 16.0 offers advanced functionality enabling engineers to rapidly innovate new products.

ANSYS 16.0 delivers major advancements across the company's entire portfolio, including structures, fluids, electronics and systems engineering solutions – providing engineers with the ability to validate complete virtual prototypes.

"Global enterprises have already embraced [ANSYS](#) as the engineering simulation standard for proven physics, high performance computing solutions and a unified modeling environment," said Jim Cashman, ANSYS president and CEO. "ANSYS 16.0 builds on that 45-year legacy by delivering even more game-changing functionality. By taking advantage of these new capabilities, enterprises can bring their products to market faster by reducing or eliminating their reliance on physical prototypes. And by fully leveraging the capabilities of this new release, they can unlock the promise within their products."

"ANSYS solutions already complement our product development process perfectly, so we're looking forward to the new capabilities offered in ANSYS 16.0," said Robert Terhune, mechanical engineer at 4moms, which develops some of the most innovative and safe baby gear on the market. "Validating prototypes on the computer using ANSYS simulation software, in addition to physical tests, drives us to higher levels of innovation while getting our products to market faster and more cost-effectively."

Highlights of the release include:

Enabling Connected Electronic Devices. The pervasive connectivity of electronic devices, evidenced by the Internet of Things, requires a higher standard for hardware and software reliability. ANSYS 16.0 delivers capabilities to verify electronics reliability and performance throughout the design process and complex electronics industry supply chains.

As part of the release, ANSYS is introducing the ANSYS Electronics Desktop. This single-window, highly integrated interface brings electromagnetic, circuit and systems analysis into a seamless working environment to maximize productivity and to ensure users are following simulation best practices.

Another important new feature in ANSYS 16.0 is the ability to create 3-D components and integrate them into larger electronic assemblies. This modeling approach can facilitate the creation of wireless communication systems, which is especially useful as these systems become more and more complex. Simulation-ready 3-D components are created and stored in library files that can be added to larger system designs without the need to apply excitations, boundary conditions and material properties.

"The Internet of Things is changing the way that nearly every product is created," said Larry Zu, president of Sarcina Technology. "That creates unique challenges for Sarcina Technology's high performance application-specific integrated circuits and PCBs. The advances in ANSYS 16.0 enable Sarcina to create our leading products faster and more reliably, helping to connect the components of the Internet of Things quicker than ever."

Simulating the Total Spectrum of Structural Materials. Reducing weight while improving structural performance and design aesthetics is a challenge many engineers face. Thin materials such as sheet metal and new substances such as composites are often part of the solution, but these choices present simulation challenges.

Sheet metal and plate steel are common traditional material forms used to minimize weight while delivering required structural performance. ANSYS 16.0 accelerates the process for engineers to model these thin materials and define how parts are connected in a complete assembly.

ANSYS 16.0 provides new functionality for composite designs and comprehensive tools for

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understanding the solution results. Composites are another material alternative to drastically reduce weight, but they are difficult to model because of their non-homogeneous properties and their dependence on the manufacturing process to deliver maximum performance.

ANSYS 16.0 also provides advanced solutions for elastomers like rubber, which are often used in seals and vibration dampers. Seals can become severely distorted and come into contact with other parts, which adds to the complexity of the simulation. ANSYS 16.0 features adaptive remeshing, which refines the mesh in highly distorted areas without the need for the user to stop the simulation manually.

Contact simulation between multiple parts has also realized many advancements in ANSYS 16.0. These are some of the most challenging simulations for structural analysis – especially with the expansion beyond traditional engineering material.

"The contact improvements released with ANSYS 16.0 will be very useful to further refine the modeling of stent deployment in cerebral aneurysms," said Mathieu Sanchez, co-founder and R&D director, IRRAs Technology. "The combination of better contact management and the new visualization and customization tools available in ANSYS 16.0 should help us to bring engineering simulation benefits to the surgeons."

In addition to new capabilities and enhancements, ANSYS 16.0 delivers improved solver performance to provide users with a faster time to solution.

"As part of Intel's close collaboration with ANSYS, we're excited to see them take a leadership role in delivering Mechanical 16.0 to market to address the HPC needs of Windows users with Xeon Phi," said Charles Wuischpard, vice president Data Center Group, general manager Workstations and High Performance Computing at [Intel Corporation](#). "This release takes full advantage of Intel® Xeon® processors and Intel® Xeon Phi™ co-processors to bring new levels of performance in simulation. This announcement underscores the momentum we're seeing for Intel HPC products across the industry."

Simplifying Complex Fluid Dynamics Engineering Challenges. While manufacturers are constantly innovating their products to capture more market share, it comes with a challenge: engineers need to study more complex designs and physical phenomena – with less time. ANSYS 16.0 reduces fluid dynamics simulation time for complex models by up to 40 percent.

This release further reduces the time for optimizing design changes by leveraging the adjoint optimization technology and making it more practical for engineers to use. A new adjoint designer tool enables engineers to perform multi-objective shape optimization, including constraints. They can now use the adjoint solver and model up to 50 million cells.

Engineers designing turbomachinery equipment of all sorts – from pumps and fans to compressors and turbines – will benefit from significant simulation speed-up thanks to HPC scalability extending to thousands of CPU cores. Furthermore, continued advances in modeling transient blade row interaction will extend and improve engineers' ability to simulate the complex unsteady flow phenomena found in such rotating machinery as aircraft engines and power generation turbines.

Enabling Model-based Systems and Embedded Software Development. Virtually every industry has experienced growth in innovation based on systems including electronics, mechanical subsystems and embedded software. This trend has led to a number of challenges, which are changing how companies design and develop these complex systems. ANSYS 16.0 provides enhanced capabilities for both developers of systems and embedded software.

ANSYS 16.0 features extended modeling capabilities, enabling hardware and software engineers to define the intricacies of a system and its subsystems operations. This is crucial because as systems

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become more complex, engineers need greater definition of their operations. Systems and software engineers can better collaborate on joint projects, reducing development time and effort. ANSYS 16.0 addresses this need with the addition of behavioral diagram modeling.

Within the aeronautics domain, ANSYS 16.0 provides a model-based approach that satisfies the requirements of DO-330, the tools qualification document within DO-178C, for the highest levels of safety requirements. DO-178C, Software Considerations in Airborne Systems and Equipment Certification, is the new document that such authorities as the [Federal Aviation Administration](#), the [European Aviation Safety Agency](#) and [Transport Canada](#) will use to approve all commercial software-based aerospace systems. ANSYS 16.0 is the first tool to meet that new certification requirement.

Introducing a Unified Multiphysics Environment. As part of the launch, ANSYS is introducing ANSYS AIM™, an innovative, immersive simulation environment that lowers the barrier to entry for multiphysics simulations. AIM simulation uses proven ANSYS technology packaged in a new intuitive environment, accessible to the entire engineering organization. AIM's guided simulation process paradigm delivers high levels of automation and provides opportunities for customization to automate engineering best practices.

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Aras Announces Latest PLM Platform Release with Visual Collaboration using new Secure Social Technology

28 January 2015

Aras®, the next leader in enterprise Product Lifecycle Management (PLM) software, today announced general availability of Aras Innovator® 11. The release introduces visual collaboration using new secure social technology in the platform. The new capabilities provide the fastest, simplest way to collaborate securely across disciplines, locations and organizations.

“Developing and manufacturing products that combine electronics, software and mechanical aspects requires a level of cross-discipline collaboration that’s been hard with traditional PLM systems,” said John Sperling, Vice President of Product Management at Aras. “We’ve changed that by making collaboration for everyone secure, visual and easy.”

Breaking Down Barriers

With Aras, teams from engineering, operations, quality and the supply chain can communicate about products more effectively, make decisions quickly and solve problems faster.

Aras Innovator 11 takes a different approach to visual collaboration by:

- Adding discussion threads with embedded viewables and markups
- Covering all data types including 3D, 2D, schematics & layouts, Microsoft Office and images
- Putting everything in the context of product structure & processes such as Bills of Material (BOMs), parts, models, drawings, documents and change workflows
- Using the PLM permission model to control comment visibility and participation
- Eliminating added license expenses so there are no extra costs

Context, Control and Security

With visual collaboration people can easily view content, add markups and make comments in the context of PLM items. Marked-up viewables are linked with text comments into discussion threads visible to other users with the proper permissions.

The PLM security model controls visibility and participation in discussions protecting critical Intellectual Property (IP). User authentication means each individual is known with certainty so people can collaborate with confidence.

Global Accessibility

Visual collaboration in Aras is completely enabled in the browser with nothing to install and no plugins. The technology makes it ideal for global enterprises with numerous locations and the need to include suppliers, outsource manufacturers and design partners around the world.

Continuous Engagement

When in meetings, on the factory floor or in the field, Aras Innovator 11 has an integrated mobile tablet app called Aras Flow. For the first time in PLM, change workflows are combined with discussion commenting, visualization and markup in a mobile format.

Platform Extensibility

Visual collaboration functionality is fully extensible and can be combined with custom business items and workflows created in Aras Innovator 11. The underlying secure social technology can also be integrated with other enterprise systems to deliver the capabilities anywhere.

Register for the Aras Innovator 11 Live Demo <http://aras.com/plm/002834>



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Aras Extends PLM Mobile Strategy with Aras Flow

28 January 2015

Aras®, a leader in enterprise Product Lifecycle Management (PLM) software, announced the release of Aras Flow, an integrated mobile tablet app for Aras Innovator 11. For the first time in PLM, change workflows are combined with discussion commenting, visualization and markup in a tablet format. With Aras Flow, teams from engineering, operations, quality and the supply chain can communicate on-the-go to make decisions quickly and keep new product initiatives moving.

Aras Flow provides mobile access to “my work right now” in PLM. When in meetings, on the factory floor, traveling to suppliers or visiting customers, people are able to securely participate in discussions about product designs, view drawings, redline models, and sign-off on changes.

“Aras Flow mobile-enables key aspects of PLM by combining review & approval with our new visual collaboration capabilities,” said Peter Schroer, President of Aras. “Whether you’re in a prototype lab or out in the field, Aras Flow provides mobile-specific capabilities that can help you describe product issues more accurately such as taking a picture and sketching notes, capturing a video or recording audio which can be added to a discussion.”

Aras Flow Highlights

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- Voting, e-signature and task checklist
- Touch enabled viewing of 3D models, drawings and other items
- Discussion threads and commenting in product structure context
- Redline markup and sketches with touch or pen on any file content
- Ability to take photos, videos and audio recordings and add to discussions
- Handwriting recognition turns notes into text
- Live tile updates show change status and new comments on Start screen
- Ability to pin change workflows to Start screen for real-time status update
- Includes demo mode with sample data

Aras Flow Demo <http://aras.com/plm/002836>

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BigLever Software Introduces the Industry's First Integrated Product Line Engineering and Product Lifecycle Management Solution

26 January 2015

[BigLever Software](#) announced today that the company has partnered with Aras to deliver the industry's first integrated PLE and Product Lifecycle Management (PLM) solution, the Aras Innovator/BigLever Gears Bridge. The integration of PLE and PLM is a significant step forward in enabling companies to reduce complexity, break down organizational and operational silos, and achieve new levels of efficiency, interoperability and alignment across all aspects of planning, designing, implementing, delivering, maintaining, and evolving a product line.

"The sophistication of products and systems being deployed throughout the industry requires a commensurate sophistication in the alignment of tools and methods for the traditionally siloed hardware and software engineering," said Dr. Charles Krueger, BigLever CEO. "While the strategic alignment of PLM, PLE and ALM has been widely touted in recent years, the Aras Innovator/BigLever Gears Bridge provides a dramatic breakthrough in how the industry will realize this vision. The result is a distinct competitive advantage for our mutual customers."

While PLM focuses on the engineering and management of mechanically-intensive systems, as well as key business operations such as ERP, manufacturing, sales and beyond, PLE provides capabilities for managing product family variation across the engineering and operations lifecycle for an entire product line portfolio.

"With intense global competition, today's manufacturers often struggle to differentiate their products," said industry analyst Michelle Boucher, Tech-Clarity Vice President of Research for Engineering Software. "Embedded software and electronics are increasingly critical to deliver levels of innovation that will win over customers, who are seeking products tailored to their needs. Manufacturers are responding with more configuration and variant options. These trends increase product complexity, which creates challenges for product engineering. The ability to tie together PLM and PLE can help product engineering better address this complexity, enabling manufacturers to improve efficiency and bring exciting, very competitive products to market."

"We're excited to be working with BigLever to deliver on the promise of integrated PLM, PLE and

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ALM," said Peter Schroer, President of Aras. "For the first time, companies engaged in systems engineering will have a single, end-to-end solution that can handle the complexity of today's product requirements and take full advantage of emerging technologies and capabilities."

Advances in today's manufactured products are exhibiting exponential complexity growth -- increasingly sophisticated software and electronics must seamlessly interoperate with an increasingly innovative array of mechanical parts. Companies must provide ever-greater product line diversity through more variability in the product features they offer, while achieving economy of scale through the efficient sharing and reuse of hardware and software assets. And, this variability must now be managed across the entire cradle-to-grave lifecycle of the products. This full-lifecycle reality demands a new way of managing product variability across organizational functions, technologies, tools, artifacts, methods, and processes. Product line engineering has emerged to fill that role. PLE provides a "common language" for precisely expressing, engineering, and managing product diversity across the enterprise:*features*. While features manifest themselves in different ways in each part of the organization -- they provide a widely understood language against which a product line can be effectively managed across the entire lifecycle.

About the Integration of PLE and PLM

Simplification of existing PLM approaches comes from an inverted way of thinking, made possible with the *feature-based* integration of PLM and PLE: Rather than use a Bill-of-Materials to determine features, companies can use a Bill-of-Features to determine materials, where "materials" in this context means mechanical, electrical, wiring, software, calibrations, requirements, designs, test cases, documentation and much more.

Additionally, PLE provides a "single source of feature truth" -- a holistic view into the feature variations for a product family -- which eliminates the need for multiple feature management mechanisms for multiple tools, facilitates better interoperability across software and mechanical teams, and improves cross-functional alignment between engineering and business operations. The Aras Innovator/BigLever Gears Bridge brings PLE and PLM technologies together to allow companies to leverage this "single source of feature truth" for all software, electronic, mechanical, and operations artifacts. This enables companies to apply a unified featured-based approach and mechanism for sharing, assembling and configuring engineering and operations assets from across the lifecycle to dramatically streamline the production of an entire product line.

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Delcam Launches New Rib-Machining Module for PowerMILL CAM System

26 January 2015

Delcam has launched a new rib-machining module for its PowerMILL CAM system for high-speed and five-axis machining. The new module has been introduced to speed up and simplify the machining into tooling of cavities to form ribs.

Reinforcing ribs are required in many types of plastic mouldings, from electrical housings to containers to furniture. They are typically much deeper than they are wide, which poses special challenges when machining the cavities needed to form them. In many cases, these challenges prompt companies to use

EDM to form the features rather than machining.

The new PowerMILL rib-machining module makes it much easier and safer to program the machining of cavities for narrow ribs, even when the cutter's length is much greater than its diameter. Using the dedicated rib-machining strategy gives a better surface finish than using a standard finish-machining option and also improves efficiency by limiting the number of air moves.

The first stage of the process is to create a pattern for a single rib, by sketching a line along its length. PowerMILL uses this line to identify automatically all the surfaces needed to form the rib. The machining sequence is then calculated. Usually, the machining will either be undertaken by cutting progressively deeper along the centreline of the cavity using a form tool matching the rib profile or by profiling along either side of the rib with a standard tool.

In many cases, most, if not all, of the ribs in a part will have similar depth and width profiles. Thus, once the user is happy with the sequence developed for the first rib, the same machining strategies with the same tooling can be applied across the complete network of ribs so minimising programming times.

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Distene Releases MeshGems 2.0

28 January 2015

Distene announces the release of MeshGems 2.0 which brings Boundary Layers generation capability, Mesh Quality enhancements and the Distributed Parallel performance, to making a new step forward in automatic meshing meshing for a wide range of physics simulations including CFD, Structures and Electro-Magnetics.

Surface Meshing:

- Surface meshing on discrete geometries has been significantly improved. MeshGems 2.0 offers a common workflow for surface meshing on continuous CAD geometry and discrete models like STL or mesh data.
- Surface Meshing introduces the possibility to drive the type of elements generated on a CAD-patch per CAD-patch basis.

Mesh Processing:

- New algorithms have been introduced for MG_Cleaner, leading to an increased success rate of the automatic correction feature.
- Partial support for required entities has been introduced specifically for when some entities should be kept unchanged .

Volume Meshing (tetrahedral):

- New enhanced boundary regeneration algorithms have been added to MG_Tetra to increase significantly the success rate on difficult cases.
- The mesh generation speed of MG_Tetra has been optimized, specifically targeting the generation of large meshes.
- The quality (aspect ratio) of the generated volume mesh has been improved.

New products:

In addition to improvements to existing components, MeshGems 2.0 added two major new products MG-Tetra_HPC and MG-Hybrid:

- MG-Tetra_HPC for parallel (multithread or distributed) tetrahedral volume mesh generation. MG-Tetra_HPC benefits naturally from all the experience of the widely used MG-Tetra, and obeys to the same basic principles: the surface mesh is not changed at all by the volume meshing process, cavities can be meshed, mesh entities can be enforced in the volume, etc.
- MG-Hybrid for mixed element type volume mesh generation. Starting from a mixed triangle/quadrangle surface mesh, it is able to generate a hybrid volume mesh conformal to this input surface mesh, including advanced extrusion of the surface mesh, boundary layer, a transition layer and then fill in the remaining core using either tetrahedra or hexahedra.

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ESI releases Virtual Seat Solution, a Software Solution Dedicated to Seat Prototyping

27 January 2015

[ESI Group](#) announces the launch of [Virtual Seat Solution](#), the only solution on the market dedicated to the virtual prototyping of seats. It empowers OEMs and seat suppliers to design, test, improve and pre-certify their seat prototypes, fully and virtually, without the need for costly physical prototypes. Not only do industrial clients save cost and time, they can also deliver highly innovative seats while ensuring all aspects of their performance.

The gains provided by Virtual Prototyping are best expressed in the words of Dr. Vincent Tejedor, Chief Technical Officer of the French company Expliseat, which recently launched the lightest economy class airline seat in history. With their Titanium seat, Expliseat realized the incredible achievement of reducing seat weight to 4kg - over 50% lighter than a regular seat. Tejedor explains: "Virtual Prototyping is a proven industrial approach to pre-certify the manufacturing process and performance of an innovative product, such as our Titanium seat. Our experience working with ESI's Virtual Seat Solution confirms the efficiency of this solution in speeding up innovation. Virtual Seat Solution has helped us reduce drastically the development time usually required to design an innovative product, and has allowed us to increase the business value of our company in record time!"

In the automotive sector, major OEMs, including Hyundai Motor Company, and seat suppliers, already use the solution. Hyundai uses [Virtual Seat Solution](#) to test H-Point, posture, pressure mapping, hardness, and the dynamic comfort of their seats. Thanks to Virtual Prototyping, Hyundai's research for reducing seat vibration has enabled them to deliver best-in-class comfort to all car occupants, helping reduce muscular fatigue and long-term effects on the spine. Han Ji Won, Engineer in the Body & Trim development team at [Hyundai Motor Company](#), comments: "Since seats contain lots of components, it's very difficult to find the factors that influence dynamic comfort. We tried to figure this out using ESI's Virtual Seat Solution and reached our goal. This new way of working will help us save money and time effectively."

Expanding on the capacities of ESI's seat comfort software previously known as PAM-COMFORT, [Virtual Seat Solution](#) not only covers trim manufacturing, postural, static and dynamic comfort, it also

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enables the assessment of thermal comfort and whiplash testing.

Clients can easily test the performance of their future products, including the whiplash performance addressed in EuroNCAP or JNCAP protocols, and comfort performance according to the SAEJ826 standard. For the first time, these tests are fully integrated into [Virtual Seat Solution](#), and automated from beginning to end.

In addition, as [Virtual Seat Solution](#) takes into account the effects of manufacturing, it ensures extremely accurate prediction of the seat performance. Thanks to case-specific dummies and human models, users can evaluate performance, precisely predicting the interaction between seat and passengers.

All of these applications can be assessed using a single model common to all domains of performance, allowing seat designers, seat engineers and seat specialists to work concurrently and efficiently. Using a single model, they can quickly assess trade-offs between different design options and enhance their prototypes.

Virtual Seat Solution is supported by [Visual-Environment](#), ESI's multi-domain platform, providing a perfect environment to support all CAE needs - from CAD import, to easy model set-up, pre- and post-processing.

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HyperLynx Alliance Accelerates High-Speed Design-Ins and Verification

27 January 2015

Mentor Graphics Corporation today announced its new HyperLynx® Alliance developed with key industry partners, integrating tools, data and methodology to accelerate new technology adoption. The alliance leverages the [HyperLynx® tool suite](#) for high-speed design and verification, deployed on cloud-based virtual labs to accelerate time to productivity. The [virtual lab series](#) leverages partner models and reference designs with the HyperLynx tool suite to demonstrate ideal design methodologies to address difficult high-speed printed circuit board (PCB) SerDes and DDR design challenges. The virtual labs reduce engineering time and costs associated with evaluation design tool requests and design case setup which could take days or weeks. The labs walk through a recommended design process, helping engineers formulate their own methodologies and enabling them to evaluate trade-offs to improve overall system performance.

Co-developed with industry vendors, the HyperLynx Alliance virtual labs include the complete HyperLynx design environment, partner IBIS-AMI and/or s-parameter electrical models, a reference design based test case, and a step-by-step instruction guide. Each virtual lab is free, available 24/7, and designed to be completed within a few hours. They remain available as a future resource for users during real design and implementation stages. Mentor Graphics is partnering with Altera Corp., PMC-Sierra, Inc., Samtec, Inc., and eASIC Corp. to develop labs.

The Altera HyperLynx Alliance virtual labs are available now, free of charge to registered users. Virtual Labs from PMC-Sierra, Samtec and eASIC will be available in early 2015. Users can access any virtual lab via an HTML5 compliant browser. For more information, visit the company website at: <http://www.mentor.com/pcb/hyperlynx/hyperlynx-alliance>

Commentary:

“We are pleased to be the only FPGA vendor that is part of the HyperLynx Alliance, which provides a

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great resource to design engineers by allowing them to exchange known-good high-speed design practices and methods,” stated Raj Patel, senior manager, midrange products, Altera Corporation. “These jointly developed virtual labs showcase a number of leading-edge technologies featured in Altera FPGAs and SoCs, like DDR3/DDR4 memory interfaces running up to 2666 Mbps and SerDes links operating up to 28 Gbps. The virtual labs will help the engineering community quickly gain the expert knowledge required to successfully complete their designs on-time and under budget.”

“The HyperLynx Alliance program will provide our customers with push-button and vetted IBIS-AMI simulations, allowing them to rapidly evaluate our SERDES against a variety of industry cables and connectors,” said Eric Clement, director of applications for the PMC-Sierra Enterprise Storage Division. “PMC is well known for our industry-leading SERDES, and this Virtual Lab is one more resource to ensure our customers have access to the most comprehensive design methods, tools and technologies.”

“Mentor Graphics and our partners are committed to share specific design approaches helping to educate the PCB design engineering community to remove problematic high-speed DDR and SerDes design bottlenecks,” stated A.J. Incorvia, vice president and general manager of Mentor Graphics Board Systems Design Division. “Many of today’s design teams may be unprepared to meet today’s high-speed design issues due to limited experience, design know-how, and immediate access to the latest design software, IC and hardware technologies. The HyperLynx Alliance was created to serve the needs of today’s PCB design engineer – with real-time access to tools, technologies and support to remove the uncertainty of today’s most daunting high-speed design issues.”

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Lattice Technology Announces Lattice3D Studio Version 13.1 for Engineering & Manufacturing Companies

23 January 2015

Lattice Technology, Inc., announced [Lattice3D Studio](#) version 13.1. This latest release of the company’s authoring tool contains features that speed time to market and decrease development costs for companies that develop and manufacture complex products. New functionality includes 3D electrical routing, which completes the product representation by including the mechanical aspects of the electrical design. Additional features enable concurrent workflows between engineering, product documentation, assembly process planning, and work instruction development.

“The new features in this release continue our effort to enable the enterprise to leverage 3D engineering data to downstream processes and compact product release cycles,” explained Bill Barnes, General Manager, Lattice Technology, Inc. “For instance, using Lattice3D Studio version 13.1, companies can now create electrical routing for complete product representation. This allows both electrical and mechanical data to be used in interactive work instructions, technical illustrations and any other technical documentation. Additional features better enable different team members to work concurrently.”

Create Electrical Routing in 3D

With version 13.1, [accurate electrical routing](#) (including wires, cables, harnesses and connectors) can easily be done in 3D and included with the mechanical representation from the CAD model. The complete product representation can then be leveraged into all of the various downstream processes

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required to bring a product to market, speeding time to market and reducing costs.

Enable Concurrent Process

During the late phases of product design when product release processes are started, changes will inevitably occur. The challenge for working concurrently is to minimize the re-work. With this release, change detection and visualization capabilities have been added to enable quick identification of changes and the ability to incorporate them into the work already accomplished.

Lattice Technology delivers technical communication solutions that may be used across the entire product lifecycle—for internal use, external stakeholders and customers. These solutions build on top of an organization's 3D design data, allowing companies to leverage 3D CAD model data and business data. Ideal for assembly process planning, work instructions, technical illustrations, electronic spare part catalogs and service portals, the innovative technology is used by manufacturing and engineering companies as the backbone for sharing and using 3D model data across the extended enterprise.

Solutions from Lattice Technology enable users to work with even the largest models that can be consumed for free on virtually any Windows® computer as well as many Windows and Apple® tablets.

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Luxion and Pixologic Partner to Release ‘KeyShot for ZBrush’

29 January 2015

Luxion in partnership with Pixologic™, makers of ZBrush® software, is pleased to announce the partnership that now makes KeyShot an integral part of the ZBrush workflow, with ‘KeyShot for ZBrush’ and the ZBrush to KeyShot Bridge, available now with the release of ZBrush 4R7.

Pixologic’s ZBrush is known throughout the 3D industry as the key software for generating digital sculptures fast. With an integrated workflow between ZBrush and KeyShot introduced in the past, 3D artists realized the two as an indispensable combo for creating concepts quickly. Pixologic takes this integration even further with ‘KeyShot for ZBrush’, a standalone rendering solution with direct integration inside ZBrush through the ZBrush to KeyShot Bridge that allows users to visualize their concepts, creating light studies in KeyShot as they continue to sculpt, texture and paint their model in ZBrush.

“The speed and realism KeyShot offers, compliments the ZBrush artist’s workflow perfectly,” says Jaime Labelle, COO at Pixologic. “The feedback from artists has been instrumental in the development effort, for a process that is faster than ever before. It’s this partnership with Luxion and the new modeling capability in ZBrush 4R7 which allow artists to explore beyond the limits of imagination.”

“We are amazed at the capabilities ZBrush brings to the 3D Artist,” says Henrik Wann Jensen, Co-founder and Chief Scientist of Luxion. “In an industry where concepts are needed quickly and the artist’s workflow needs to be faster, ‘KeyShot for ZBrush’ provides the modeling and rendering speed that those in media and entertainment require.”

“The first time I saw KeyShot, I immediately realized how I could show my art, my models, my products more effectively than other render engines,” says Cki Vang, CG Artist. “For me the KeyShot Bridge is the cool feature of the year. Each SubTool can have a different material shader—light, glass, metal, etc.—It’s very useful for the designers, offering us the possibility to obtain final presentations faster.”

How it works

'KeyShot for ZBrush' is activated from inside ZBrush when an artist is ready to set lighting and materials for their creation with all SubTools sent directly to KeyShot. As a separate program, ZBrush users can apply materials and lighting while continuing to work within ZBrush to refine their idea, then send updates over to KeyShot to see their updates immediately. The integration allows for any number of SubTools and complete support of MatCaps while retaining all texturing and PolyPainting. You can view all the features for both 'KeyShot for ZBrush' and the ZBrush to KeyShot Bridge [here](#).

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Mastercam X8 Mill Brings Speed, Efficiency, and Automation

30 January 2015

Mastercam X8 Mill offers expanded machining flexibility and an increased emphasis on speed and automation. Dynamic Motion technology, 2D Machining, and Multiaxis features combine with dozens of additional new enhancements in a package intended to improve shop floor productivity.

Here are some of the most significant highlights and new functionality in Mastercam X8 Mill:

Dynamic Motion Technology

Mastercam's Dynamic Motion technology is a new and exciting approach to creating toolpaths. In order to create the smoothest, most efficient cutting motion possible, Dynamic toolpaths calculate more than just the simple motion of the tool. They also use a proprietary set of rules to analyze tool engagement and the material removal, constantly changing the cut motion based on what the tool will encounter at the machine, optimizing the motion before the first chip is cut. The results include radically shorter cycle times, less wear and breakage of tools, and less wear on machines. Mastercam X8 further hones and expands our Dynamic Motion engine by adding new options for even more control over the final cuts and better wear on your tools.

Multiaxis Improvements

Multiaxis Roughing is a new strategy added for X8. It allows the easy creation of pocketing toolpaths to rough out pockets that have a curved floor surface. It supports offset or Dynamic style strategies, and multiple depth floors. Safety Zone improvements make defining and editing the safety zone much easier. Tool inspection was added to many multiaxis toolpaths, including Blade Expert and Port Expert. After you enter an inspection parameter, the tool will retract and trigger an inspection code at the next linking move.

2D Features

Mastercam's 2D high speed toolpaths (HST) now support multi-core processing on toolpaths with multiple machining regions. 2D HST Dynamic Mill has added first pass feed reduction and first pass offset to the Cut Parameters page, allowing for safer motion when the tool is entering material from the outside. It also expands the machining region to ensure the tool does not engage a lot of material on the very first pass due to an unknown exact block size. Region Chaining has been simplified to machining region selection, allowing for single or multiple regions.

Additional powerful tools in Mastercam X8 Mill include:

- New Air Region chains define safe air the tool can move within via closed chains.
- You can now adjust feeds and speeds on the Multi Passes page, making it easier to control your

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tool motion. In addition, corner rounding support is added in Ramp and Oscillate modes.

- 3D high speed toolpaths based on Z-level cuts now process Z stepdowns across multiple cuts.
- Tilt Away to Avoid Collision options are added in 3D HST finishing toolpaths and provide an easy-to-use introduction to 5-axis technology.
- Productivity+ enhancements such as support for extended character languages and added graphic selection for Calibration Point position.

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PTC Introduces PTC PLM Cloud

28 January 2015

[PTC](#) announced a new Product Lifecycle Management (PLM) offering, PTC PLM Cloud, geared to the needs of small and midsized (SMB) product companies. This solution leverages the power of PTC Windchill®, while simplifying PLM adoption with a flexible, hosted subscription offering deployable at a pace that matches the needs of SMBs.

Recognizing that many SMB organizations may lack a dedicated IT staff but still want to adopt a proven PLM environment, PTC designed PTC PLM Cloud specifically to enable team collaboration and data management in the cloud. This flexible offering eliminates the typical, but risky, SMB practice of shared folders and file naming conventions which hamper product development. With more effective and reliable data sharing in the cloud, customers are able to improve product development across teams in different locations, teams working with varying CAD applications, and with external teams such as partners and suppliers who are a growing part of the product development process.

“The value of PTC PLM Cloud is clear,” said Peter Bilello, President, CIMdata. “PTC’s offering has been designed to allow smaller companies, which have previously been unable to rapidly implement PLM capabilities, to quickly deploy and adopt key data management, visualization and reuse functionality. Those are all vital capabilities for any company in the business of developing products.”

Specific benefits of PTC PLM Cloud are:

- **Security.** PTC’s cloud environment is compliant with ISO 27001:2013 which outlines standard protocols for information security management.
- **Availability.** PTC PLM Cloud is based on PTC’s existing hosted PLM environment which achieves 99.5% availability.
- **Speed.** PTC PLM Cloud performance has been optimized for distributed teams.
- **Time-to-Value.** PTC PLM Cloud enables rapid PLM adoption and accelerated product development processes, enabling improved on-time delivery.
- **Total Cost of Ownership.** PTC PLM Cloud allows for reduced technology acquisition and system administration costs.

“This solution is a true fully-featured PLM offering, including multi-CAD data management and collaboration,” said Brian Shepherd, EVP, Extended PLM Segment, PTC. “We’re excited to bring real, proven PLM to even the smallest product companies. Without needing to worry about system administration, they can focus on what matters most - their business.”

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“Our main objective when deciding for PTC Windchill on the Cloud was to have central repository of up-to-date product information and efficient delivery of that data to customers and technical support staff, but at the same time to minimize the burden on IT while maintaining a predictable monthly cost,” said Vinny Guercio, VP Engineering, RAB Lighting. “With PTC, we have met our goals.”

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PTC Introduces the ThingWorx-Axeda Integrator to Accelerate Internet of Things Value

29 January 2015

PTC today announced the ThingWorx-Axeda Integrator, which combines the ThingWorx® development platform with the Axeda® solution to enable customers to speed development and innovation. Specifically, the ThingWorx-Axeda Integrator unifies the ThingWorx AEP platform with the Axeda connectivity, device cloud and applications, providing a blueprint for successful IoT projects.

With an ever-growing number of smart, connected products and sensors, the true promise of IoT is in integrating people, systems and things, and developing new innovative applications that disrupt the way industries work. The ThingWorx-Axeda Integrator unifies the strengths of ThingWorx and Axeda to deliver the most complete IoT solution stack in the industry, providing a unified experience for customers to develop solutions for smart connected products.

“Every industry is in the midst of a major transformation enabled by connectivity and new IoT applications for smart connected products and sensors. With the potential for meaningful innovation in just about every market, businesses of all sizes are engaging with IoT technology at an extremely rapid pace,” said Russ Fadel, ThingWorx President and GM. “ThingWorx-Axeda Integrator creates a powerful combination which has the ability to further accelerate the IoT industry.”

The ThingWorx-Axeda Integrator enables Axeda machine data to be immediately available in the ThingWorx platform, and Axeda APIs to be accessed from ThingWorx Composer rapid application development tool. The Integrator’s out-of-the-box connector enables users to login into a single system to access data and web services in the Axeda products, and streamline solution implementation.

Specific technology capabilities include:

- ***Axeda time series data available in ThingWorx***
 - Axeda data including Data Items, Alarms, and Mobile Locations flow into the ThingWorx platform via the Axeda’s Machine Streams data feed service.
 - Axeda Machine Streams can now natively send data directly into ThingWorx.
- ***Synchronized data model & data between the two systems***
 - Data is automatically synchronized between Axeda and ThingWorx, reducing errors and speeding development.
- ***Easily utilize Axeda APIs from ThingWorx Composer tool***
 - With a small amount of scripting, customers can create powerful solutions to solve real world challenges for their devices.
- ***Automatic Authentication for ThingWorx Widgets embedded in Axeda Console***

CIMdata PLM Industry Summary

- Axeda customers can easily incorporate a ThingWorx mash-up right inside the Axeda Console.

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SoftInWay Launches STU: An Online Turbomachinery Training Resource

29 January 2015

This week marks the official launch of SoftInWay Turbomachinery University – a new online resource for turbomachinery design training. The site, affectionately referred to as ‘STU’, was created after the SoftInWay Learning Center received high demand and positive feedback.

The site was reconstructed and redesigned into a cohesive learning portal, packed with webinars, courses, and software trials. Users can take courses on demand and earn certifications specific to certain topics. The first course focuses on axial turbines, beginning at the basics and continuing on to streamline design and optimization.

STU is also offering the AxSTREAM™ EDU software as a course companion. Users can acquire the software on a monthly basis at a discounted price. AxSTREAM EDU supports a “learn as you go” progression that aids users in understanding the overall design and performance principles of turbomachinery through the same fully-interactive AxSTREAM™

Make sure you check out STU and its brand new look! The site is sleeker and easier to use than ever. It is the most convenient and affordable turbomachinery design training resource available anywhere! Visit STU at <http://learn.softinway.com/>

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