

Contents

CIMdata News	2
Medical Devices—Supporting a Patient-Driven Market: a CIMdata Commentary	2
Siemens PLM Software Analyst Conference 2013: a CIMdata Commentary	6
Company News	10
Agilent Technologies to Separate into Two Industry-Leading Public Companies	10
CAMTECH GmbH Appointed Master Reseller for Germany	12
Delcam Selected for Membership in Okuma Partners in THINC	13
Delcam Thailand's User Meeting Attracts Record Numbers	13
Germany's DHBW Switches to Siemens Software for 3,600 Engineering Students	15
I-Cubed Hires New Directors Scott Willette and Rick Towner	16
Lectra Appoints Charlie Xu as Vice President of Sales, Fashion for Greater China	17
Recognizing MECAS ESI's Long Standing Merits in Supporting the Czech Automotive Industry	18
SAP Appoints Maggie Fox SVP of Marketing for Digital, Social and Community	19
SAP Leads Global Sustainability Rankings	19
Tata Consultancy Services Ranks 50 on 2013 InformationWeek 500	20
TCS Demonstrates Significant Commitment to Building Expertise in Oracle Products	22
Trace One Takes Home Two Bronze Stevie® Awards at the American Business Awards SM	22
University of Maryland Receives Largest Ever Software Grant from Siemens	23
Events News	25
3D Printing Software Solutions on Display at TCT Show	25
Altium to Demonstrate the Power of Altium Designer at UK Electronics Design Show	25
Aras to Present at CMII Europe 2013 in Zurich	26
AVEVA exhibits at NEVA 2013 in St. Petersburg	27
CNC Software, Inc. Showcases Mastercam X7 at SOUTH-TEC 2013	27
Singletree Technologies to Demonstrate Intellimas® at Ideation2013, Gerber Technology's Annual Software Conference	28
Financial News	29
Oracle Reports Q1 Results	29
Implementation Investments	30
17,300 Parts? Easy to Maximise Profits with e2i	30
Costain Achieves Significant time Savings with AVEVA Laser Modeller	32
Windchill Bulk Upload Tool and Methodology by Etrage is used by TWeatherford, Inc.	33
World Leader in Envelope Tracking (ET) Technology Selects Omnify Software for PLM	34
Product News	35
Aras and Trubiquity Announce TRUaras Cloud-based Secure File Exchange Service Embedded in Aras PLM Platform	35
BETA CAE Systems S.A. announces the new v14.1.3 release of the ANSA & μETA pre- & post-processing suite	36
CAM by OPEN MIND: hyperMILL® 2013	37
Delcam Launches Vortex High-Speed Roughing Strategy in PowerMILL 2014	38
Design Data and Nemetschek Scia Team Up to Integrate BIM into the Steel Delivery Process	39
EMA Automates 3D STEP Models with EDABuilder Library Automation Solution	41
Ideate, Inc. Launches an Extensive Online Learning Program, the Ideate CADLearning Portal	42

CIMdata PLM Industry Summary

Infinite Skills' "AutoCAD Plotting and Publishing Training Video" Helps Users Streamline Output Processes _____	43
Infinite Skills Offers Access to Complete Training Library on a Monthly Subscription Basis _____	44
KeyCreator 2014 Now Available for Product Downloads and Trials _____	45
Nemetschek Vectorworks Releases Vectorworks 2014 Software _____	46
PTC Expands Regulatory Compliance Capabilities, Broadens Support for Product Quality Processes, and Enhances Collaboration between Hardware and Software Development Teams _____	48
QuadriSpace Announces Share3D Cloud-Based Collaboration Platform _____	50
RS Components Brings 3D Design Capability to all Engineers with DesignSpark Mechanical _____	51
Technia Announces the Release of the Technia Integration Framework _____	53
Zuken Launches Industry's first PCB Layout Productivity App with Mobile Interaction _____	54
ZWCAD Touch V1.2.0 Released, with Greater Compatibility and Mobile Design Productivity _____	55

CIMdata News

Medical Devices—Supporting a Patient-Driven Market: a CIMdata Commentary

17 September 2013

Key takeaways:

- *New life sciences technology, treatment strategies, and therapies are able to address and manage more health care issues than ever*
- *Consumer education has raised awareness of what is possible and they want it customized to suit their needs*
- *Medical device manufacturers around the world are challenged by balancing the increased pressure of the changing regulatory environment and with the needs of consumers and healthcare providers*
- *Dassault Systèmes' solutions can help medical device companies innovate, develop and deliver superior experiences to patients and healthcare providers*

The Pressure On Medical Device Manufacturers is Continually Increasing

Medical device companies are under a lot of pressure from all of their stakeholders including patients, health care providers, shareholders and regulatory agencies around the world. In order to succeed medical device companies must develop products that have a significant impact upon improving patient outcomes, overall product quality and improved patient safety. In addition, manufacturers must be able to contribute towards improving clinical staff efficiency, reducing hospital length of stay, and reducing hospital readmissions. Finally, as shown in Figure 1, they need to provide products that address issues and unmet needs that are cost effective, reliable and safe and deliver clinical and economic value.

CIMdata PLM Industry Summary

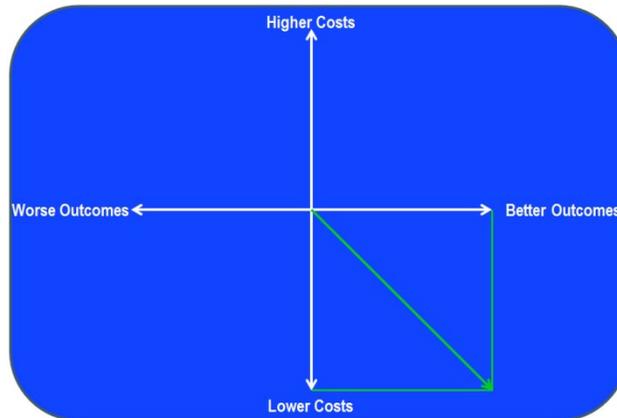


Figure 1—The Goal is to Deliver Better Clinical and Economic Value

Medical device manufacturers around the world are challenged by balancing the increased pressure of the changing regulatory environment with the needs of consumers and healthcare providers. Consumers want to improve their quality of life by leveraging capabilities that can help prevent the onset of disease or illness or that provide effective therapy for their medical issues at the lowest possible cost. Medical device companies must continuously improve internal business processes so they can simultaneously address these pressures and remain profitable.

Once a product is approved to provide an acceptable therapy in a specific market, consumers will get access, and the device manufacturer will see demand for the approved products. However, the key to sustainable profitability in today's climate is to ensure that the product information is available to subsidiary organizations in other markets and relevant to local regulatory bodies. In this regard, companies that can streamline the regulatory preparation and submission process will create and maintain a market leadership position.

At the business level, shareholders want to see the value of their assets increase. Fortunately, the medical device global market is large, varied and projected to grow about 6% a year for the next five years¹, so opportunity exists. Managing cost to maintain and improve profitability is key to long-term business health, but it is only part of the overall value equation. The other key part of the equation is growth; sales growth is key to increasing shareholder value. A stock value is based, in part, on expectations of future sales. The potential future sales are based on the size of the addressable market, and the company resources and capabilities to exploit that market opportunity. So, in addition to controlling costs and margin, medical device manufacturers need to have a strong innovation product portfolio pipeline and the ability to convert ideas into marketable products that are cost effective and safe. As long as this conversion happens, the value of the company should increase. While conceptually simple, execution is hard. Companies need to invest in the right solutions that support cost reduction, improve efficiency, innovation and time to market. At CIMdata, we see software solutions that simulate and predict product and process performance and manage regulatory related information as key execution tools. In addition, companies that have effective simulation and information management

¹ <http://www.prnewswire.com/news-releases/global-medical-device-industry-2012-2017-trend-profit-and-forecast-analysis-162557666.html>

CIMdata PLM Industry Summary

technology will bring their products to market more efficiently, more cost effectively, and more timely and will deliver on the promise to shareholders more effectively.

Leaders in the Medical Device space cannot only focus on cost reductions or product extensions. The most lucrative parts of the Medical Device industry are also the highest risk, and require innovative solutions. Segments like cardiovascular products or complex implants require complex simulations in order to reduce the probability of post clinical trial product redesign, so that when clinical trials are complete the risks to patients are minimized, and the results are effectively used to support device registration and approval. Simulation technologies can shorten the approval timeline in getting products to market sooner and help ensure product safety.

The Healthcare Market has Changed Dramatically

Over the past two decades, the healthcare market has changed dramatically. While costs have increased considerably, the capabilities of healthcare providers and the issues they can address have also gone up dramatically. Diseases and injuries that were debilitating and even fatal are now manageable and even curable.

Consumer demand is driven by their awareness of what is possible. Information sources that help increase awareness include websites and social media services, regular media including print, radio and television, and family and peer connections. As consumers absorb all this information they develop an understanding of what can be done to address their issues, and they communicate with their health care providers to make more informed requests and decisions which ultimately improve their healthcare experience.

Medical Device technology has also improved in recent years. Product planning has become more data driven. The computerization of medical records allows device manufactures to identify opportunities for new products. Product performance data enables continuous improvement opportunities to be identified and improvements assessed. Finally, one of the most recent trends is cost-effective mass customization. Advances in diagnostic, communication, and manufacturing technology have enabled the production of medical devices custom engineered for an individual patient.

In addition, the most advanced medical device developments come from companies that focus on leveraging R&D to develop effective patient experiences that improve outcomes. These companies understand that features, products and services are rapidly becoming commodities and that a holistic view supporting “experiences” is an important aspect to improving patient outcomes. For example the GE Healthcare Adventure Series™ diagnostic imaging systems were designed to be more child friendly. By reducing the noise from within the imaging machine, children are less anxious and remain calmer, which allows better images to be taken and reduces repeated imaging procedures, radiation exposure and costs. The improved images allow radiologists to make better diagnoses, which lead to better outcomes. Another technological innovation that improves patient experience is using animations of procedure simulations to aid in explaining procedures to reduce anxiety in patients.

CIMdata PLM Industry Summary

What is Dassault Systèmes' 3DEXPERIENCE?

The 3DEXPERIENCE platform is Dassault Systèmes' vision of how the next generation of PLM must evolve to support industry trends and requirements. At the highest level it consists of three key concepts: social, industry, and experience.

According to Dassault Systèmes, social is a part of the 3DEXPERIENCE platform because many companies across all industries are recognizing the demographics and computer usage patterns of both consumers and product development organizations. People use Facebook, Twitter, and other social applications in their daily life and companies want to leverage this energy to benefit their businesses. These technologies are increasingly being used to communicate with and educate people who influence decisions, and product development companies also see these tools as a means to gather valuable information to support product and process development.

Industry is core to the 3DEXPERIENCE platform: Dassault Systèmes made a big commitment to reorganize sales, marketing and R&D to ensure that the product experience is driven by industry needs. Typically solution providers focus sales and marketing by industry, but product strategy is still driven by R&D. Dassault Systèmes went much further and industry solutions are built on top of an existing solution portfolio, encapsulating data, processes and other knowledge into an offering targeted to that industry. The industry solution organization has complete responsibility for driving the solution to fit the segment's needs. The concern with this type of strategy is the potential fragmentation of the underlying solutions, which can add overhead.

The notions of user and customer experience are common in business strategy, and Dassault Systèmes' goal is to provide solutions so that their customers, who develop products, can provide those user and customer experiences to their customers as early as possible in the product development process. It is a tenet of product development that most of the cost is committed very early in the development lifecycle. If customers can experience the product early in the lifecycle, companies developing those products can build the right products at minimal cost while ensuring the promised customer experience. Dassault Systèmes believes that bringing consumers more into the product development loop is a major difference between them and the other major PLM players in the marketplace.

Life Sciences 3DEXPERIENCE

The focus of 3DEXPERIENCE in the life sciences industry is to provide a 360-degree, view of all the information that defines the patient's experience with the product. According to Dassault Systèmes, the "Licensed to Cure for Medical Device" industry solution experience provides an end-to-end solution for medical device companies that enables innovation while ensuring compliance, design efficiency, patient safety and reduced time to market. The solution is designed to provide all elements of a medical device company's quality system regulatory compliance and ISO-regulated design controls, using a single, global, online system. This includes managing all quality issues such as product complaints, non-conformance reporting (NCRs), audits and CAPAs. The intent of this industry solution experience is to help medical device companies avoid compliance risk, improve productivity and drive innovation in product development that delivers delightful product experiences to patients.

CIMdata PLM Industry Summary

Dassault Systèmes recently announced that Smith & Nephew, a long-term Medical Device customer, has purchased the “Licensed to Cure for Medical Device” industry solution experience². CIMdata looks forward to seeing this solution function at Smith & Nephew as well as other customer sites, which will help us gauge just how much impact it can have on medical device companies.

Conclusion

The global healthcare system is evolving from a healthcare provider driven system that focused on features and functions to one driven by developing products that deliver clinical and economical value to patients and health care providers that demand more personalized experiences. Ensuring that patients receive the right outcome and improvement in their quality of life is the goal for all healthcare companies and providers. Improving the experience for the patient is a significant component in the achievement of that goal, and is the focus of best in class medical device manufacturers.

“Licensed to Cure for Medical Device” from Dassault Systèmes provides an extensive lifecycle solution for medical device companies to develop, produce and support products that provide great experiences for both healthcare providers and patients.

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.

 [Click here to return to Contents](#)

Siemens PLM Software Analyst Conference 2013: a CIMdata Commentary

17 September 2013

Key takeaways:

- *Siemens PLM Software introduced industry-specific “Catalysts” designed to help accelerate PLM time-to-value and future-proof PLM investments*
- *With the Catalysts, Siemens seeks to shrink the value gap that typically exists between what’s potential and what’s actually achieved during deployment and throughout productive use*
- *Significant progress has been made on Active Workspace, the new “face” of Siemens PLM Software’s solutions, with more support for both casual and authoring users*

² <http://www.3ds.com/fileadmin/COMPANY/Investors/Earnings/13Q2/13Q2-Earnings-Newswire-conf-call-EN.pdf>

CIMdata PLM Industry Summary

CIMdata recently attended Siemens' PLM Software Analyst Conference held in Boston, Massachusetts September 4th and 5th. During the event, Siemens PLM Software (Siemens) presented their new industry program based on a "Catalyst" implementation approach designed to help companies achieve faster adoption of new and innovative PLM technologies and processes, and obtain a higher and quicker return on their PLM investment.

In the opening keynote, Chuck Grindstaff, Siemens PLM CEO and President, described how the digitization of manufacturing is transforming the way goods are made, why manufacturing matters to economies, the implications for the next generation of manufacturers, and other major trends Siemens is addressing with their PLM solutions. Mr. Grindstaff highlighted the need for smart manufacturing based on increasing product complexity, growing resource constraints, globalization and personalization of the consumer class, and the need to achieve flawless product performance. He stated that Siemens is working to deliver industry-centric immersive decision-making environments that support system-driven product development. Their goal is to help users optimize the entire product development process, creating intelligent product and production lifecycles. Throughout the two days of the event, both customer and industry speakers presented how Siemens and their solutions are enabling companies to achieve these goals. CIMdata believes that creating better industry-specific solutions can have a significant impact on the value that companies can obtain from their PLM investments, thereby closing the typical gap that exists between the potential benefits and those actually realized. (This is consistent with a recent CIMdata study on the PLM value gap in the aerospace and defense (A&D) industry.)

Steve Bashada (SVP, Industry Strategy) presented Siemens' strategy for delivering industry-specific end-to-end business process enabling solutions and how their new industry Catalysts will accelerate a customer's time to value. He stated that an industry Catalyst is part of each Siemens industry solution, and each Catalyst includes industry-specific best practices, deployment accelerators, and pre-configured solution components. This packaged delivery approach should help to reduce the cost and time of initial deployment while creating an environment that can be easily upgraded (at lower cost) to take advantage of future capabilities.

During the remainder of the first day, Siemens presented their industry solutions for Marine, Automotive, and Electronics & Semiconductor in conjunction with customer presentations that illustrated how Siemens was delivering those solutions.

During the second day of the conference Siemens presented updates on each of their major business segments (i.e., Product Engineering, Lifecycle Collaboration, Digital Manufacturing, Specialized Engineering, Mainstream Engineering, and Simulation & Test). These segment updates highlighted their new technologies and associated capabilities and how those are being applied to support and enhance their industry solutions. CIMdata believes that Siemens 4th Generation Design (4GD) and its ability to enable working in context within very large, complex products (e.g., ships, aircraft, and facilities) can significantly improve the productivity of engineers, designers, and other product lifecycle workers in those industries. During Eric Sterling's (SVP, Lifecycle Collaboration Software) presentation, a set of search statistics were displayed that illustrated that 4GD's data indexing approach allows very large data sets to be interrogated extremely rapidly. His example showed that there is almost no increase in

CIMdata PLM Industry Summary

response time against data queries on any size of data set, including searching across structures that include millions of parts. CIMdata believes that this new approach to data management in the PLM industry could significantly change how companies define, manage, and work with large, complex data sets. CIMdata also believes that companies in the industries Siemens is targeting have an opportunity of reaping substantial benefits from the adoption of 4GD.

Mr. Sterling and a number of other presenters offered additional insight into Siemens' Active Workspace user interface. Originally developed for Teamcenter, Active Workspace is being embedded within NX and other Siemens solutions. Based on HTML 5, Active Workspace, provides users a very consistent way of accessing and using information regardless of the device being used by a worker at any point in time. CIMdata believes Active Workspace can greatly improve the mobility of all Siemens solutions due to its cross platform enablement, and help them achieve a consistent, immersive decision making environment.

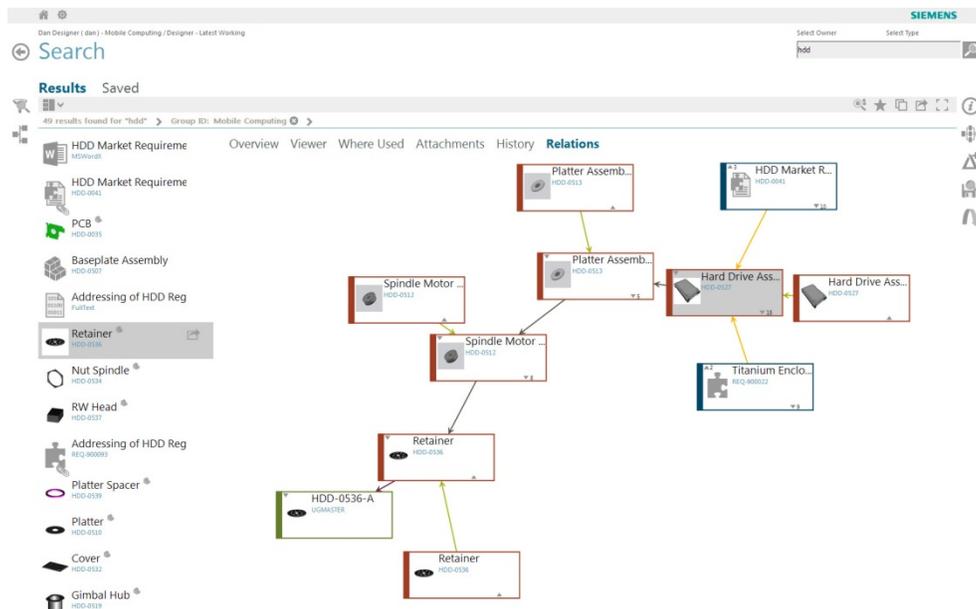


Figure 1—Active Workspace 2 Supports Casual and Authoring Users

Mr. Sterling also discussed the continuing evolution of Teamcenter to a platform environment. This architecture will allow functional modules (e.g., a requirements management application) to be implemented on multiple released versions of the Teamcenter core platform, enabling companies to upgrade and enhance at their own pace and needs. He also described several new capabilities released within the Teamcenter suite including Issues Management and CAPA, Product Cost Management, and enhancements to the Briefcase functionality for sharing design data with suppliers who do not have Teamcenter. These new capabilities address functionality that can help companies expand the breadth of their product development activities and enable them to make better design decisions earlier in the product development process.

Jim Rusk provided an update on the NX suite of solutions. New capabilities include the use of Active

CIMdata PLM Industry Summary

Workspace within NX, continuous significant improvements in solver performance, and Synchronous Technology 2D that enables 2D relational editing regardless of constraints. Synchronous 2D will enable designers and engineers to work in 2D where appropriate, using the same synchronous functionality as in 3D, and enable them to automatically move that information into the 3D environment. Active Workspace will enable users to work within a consistent interface regardless of the application while the improved solver performance should enable better analyses to be conducted earlier in the design process.

Dr. Jan Leuridan (LMS CEO) provided an update on the LMS acquisition and business, and how the LMS solutions are being integrated with both NX CAE solutions and Teamcenter as part of creating a closed-loop, system-driven product development environment. In one demonstration, an automobile stability control system was simulated with the system turned both off and on. The results showed two virtual instances of the car, based on actual geometry, slaloming down a virtual track where the instance with the control turned off leaned more and had to take wider turns. This type of systems simulation capability can be a powerful tool to help manufacturers develop their next generation products. Over time, the integration of the test and validation capabilities of LMS with Siemens solutions should provide a more robust capability for validating designs earlier in the product development process. Such closed-loop performance verification should reduce design errors and help ensure that products meet customer and regulatory requirements.

The second day included industry-specific breakout sessions. The Machinery industry session highlighted the Mechatronics Concept Designer (MCD) solution and its impact on a systems engineering approach to machinery design. MCD can help companies better design electro-mechanical systems by supporting a multi-physics functional design approach.

An Engineer-to-Order (ETO) session focused on issues with variations in design and how Siemens solutions derived from their RuleStream acquisition address them. As personalization and mass customization become more prominent in the manufacturing industries, managing increasing product variations and being able to quickly respond to ETO requests are important to success. Siemens is applying the RuleStream technology to help address this issue. In an added bonus late in day two, the product team from Geolus, Siemens' 3D geometric search solution, described their product and go-to-market strategy. Geolus provides designers and engineers with an expanded search capability and improved ability to find and reuse parts and components.

The Siemens PLM Software Analyst Conference brought together PLM industry analysts and media professionals from around the world to hear what Siemens is doing today and Siemens' views on where the PLM market is going. Overall, the Siemens management team did a good job providing an update on their strategies and solutions. Additionally, the industrial speakers were able to communicate how Siemens is delivering value and how they view Siemens' future looking solutions. CIMdata has followed Siemens and its steady progress in developing and delivery a broad and deep set of PLM-enabling solutions for much of CIMdata's 30 years. CIMdata views the Catalysts Siemens has announced to be an excellent evolution in Siemens' solution offering and we expect that companies in multiple industries will benefit from them.

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.

 [Click here to return to Contents](#)

Company News

Agilent Technologies to Separate into Two Industry-Leading Public Companies

19 September 2013

Agilent Technologies Inc. announced plans to separate into two publicly traded companies: one in life sciences, diagnostics and applied markets (LDA) that will retain the Agilent name, and the other that will be comprised of Agilent's current portfolio of electronic measurement (EM) products. The separation is expected to occur through a tax-free pro rata spinoff of the EM company to Agilent shareholders.

"Agilent has evolved into two distinct investment and business opportunities, and we are creating two separate and strategically focused enterprises to allow each to maximize its growth and success," said William (Bill) Sullivan, Agilent president and CEO.

"Agilent's history is one of reinvention, starting with our own separation from HP and including four major spinoffs since 2005. We are once again making a bold move, as we have done many times in the past, to ensure a future of sustainable growth for both the LDA and EM companies," he said. "We are focused on making this transition seamless for our customers."

Benefits

Agilent believes that the separation will result in material benefits to the standalone companies:

- Greater management focus on the distinct businesses of LDA and EM
- Ability for the LDA company to devote resources to the higher-growth LDA business, while reducing exposure to the more cyclical EM industry
- Ability for the EM company to devote resources to its own growth that were previously used to capitalize LDA
- Two independent and unique investment profiles
- Both companies will be well capitalized, having strong balance sheets and investment-grade

CIMdata PLM Industry Summary

profiles with target debt-to-EBITDA ratios below 2.0x

The New Agilent

The new Agilent will be a global leader in life sciences, diagnostics and applied markets, with an attractive recurring revenue base, balanced geographic revenue profile, growth opportunities in emerging markets, molecular diagnostics and clinical markets, and significant margin-expansion opportunities. FY13 estimated revenues are \$3.9 billion. It is expected that the new Agilent will continue to pay a dividend at least at the present yield.

Bill Sullivan is president and CEO of Agilent, and Didier Hirsch continues as CFO.

EM Company

The new EM company will be the world's premier electronic measurement company, with a leading position in major markets including communications; aerospace and defense; and industrial, computers and semiconductors. FY13 estimated revenues are \$2.9 billion. The EM company initially is not expected to pay a dividend.

Ron Nersesian, who has been Agilent's president and chief operating officer, is executive vice president of Agilent and president and CEO-designate of the new EM company, effective immediately. Neil Dougherty, who has been Agilent's vice president and treasurer, is vice president of Agilent and CFO-designate of the new EM company.

"The board and I believe Ron is the right leader for the new company," said Sullivan. "He has an excellent track record of running this business, and he has the vision and expertise to position the new company for accelerated growth and success."

Transaction Details

The Agilent board of directors granted initial approval to pursue the separation plan at its meeting on Sept. 18.

Under the plan, Agilent shareholders will receive a pro rata distribution of shares in the new EM company via a tax-free spinoff. Although there is no assurance that the separation will be completed within this timeframe, the transaction is targeted to be completed by the end of calendar 2014, subject to the satisfaction of closing conditions, including, among others, obtaining final approval from the Agilent board of directors, satisfactory completion of financing, receipt of tax opinions, receipt of favorable rulings from the Internal Revenue Service, the effectiveness of a Form 10 filing with the Securities and Exchange Commission, and satisfying foreign regulatory requirements.

The spinoff is not anticipated to impact Agilent's guidance for fiscal year 2013. The company is expected to incur one-time charges related to the transaction during the periods preceding the separation, to be quantified at a later date.

CIMdata PLM Industry Summary

For More Information

Listeners may access the webcast and accompanying slides at www.investor.agilent.com. The webcast will remain available on the website for 90 days.

A telephone replay of the conference call will be available through Sept. 26, 2013. The replay number is +1 888 286-8010; international callers may dial +1 (617) 801-6888. The passcode is 63085954.

For more details, see the fact sheets for [Agilent](#) and the new [EM company](#).

 [Click here to return to Contents](#)

CAMTECH GmbH Appointed Master Reseller for Germany

16 September 2013

CAD/CAM software supplier Edgecam has appointed CAMTECH GmbH & Co. KG as the Master Reseller for Germany.

Based in Remscheid, CAMTECH have been working with Edgecam for more than 10 years, and Walter Wade – International Account Manager for Edgecam, puts this elevation of status down to CAMTECH’s expanded investment into the German market. “They continue to focus on their end users and staff to ensure Edgecam is represented to a World Class standard.”

CAMTECH have recently opened a new office near Stuttgart in the south of Germany and taken on several new staff. Long term Edgecam customisation expert Frits Peutz has also joined Camtech adding his wealth of experience to an already strong technical team. Ulrich Rienks, CEO and owner says “We have been the number 1 global reseller for Edgecam for many years, but with the growth of Edgecam in other key markets, we are coming under tough competition. To ensure we retain our position as number 1, we will need to invest further in the Edgecam German market.”

CAMTECH and their sub dealers now employ 18 application engineers; all dedicated to supporting Edgecam users. Germany is a huge high-tech market for Edgecam and leads the way in manufacturing technologies including Milling, Turning and Multi Task machining. The importance of Germany and of CAMTECH is acknowledged by the Edgecam team with their position within a small group of Elite resellers that work very closely with the Edgecam sales, marketing and development teams to ensure that Edgecam meets the demands of the users of the future. The results of this involvement can be clearly seen with the recent developments of Edgecam Workflow, the revolutionary new way of programming NC components.

Raf Lobato, General Manager of Edgecam commented, “not only is CAMTECH a world class reseller of Edgecam, they have also taken the opportunity to create partnerships with other brands within the

CIMdata PLM Industry Summary

Vero group. This collaboration with WorkNC can be clearly seen at EMO 2013 in **Stand K12 in Hall 25**.

 [Click here to return to Contents](#)

Delcam Selected for Membership in Okuma Partners in THINC

18 September 2013

Delcam, the developer of the PartMaker, PowerMILL and FeatureCAM ranges of CAM software among others, has been selected for membership in Okuma America's Partners in THINC, a collaborative network of over 40 companies that service the metal-cutting and manufacturing industries with specialised software, equipment and expertise, plus a commitment to solve problems and increase productivity for end users. With Okuma's open architecture, PC-based THINC®-OSP control as its nucleus, Partners in THINC strive to provide the best possible integrated solutions to their end users.

Delcam's CAM solutions are used by a variety of leading Okuma customers across a broad spectrum of industries and applications. Benefits of Delcam software include:

- Faster part programming on any Okuma CNC machine;
- Reduced set-up times by proving out programs off-line rather than on the machine tool;
- Improved part quality by using advanced machining strategies to achieve superior surface finishes;
- Shorter production times by using sophisticated, high-speed machining strategies;
- Automated creation of set-up sheets and other manufacturing documentation.

"We are excited to announce our new partnership with Delcam," said Jeff Estes, Director of Partners in THINC. "The company's expertise and dedication to helping manufacturers obtain the highest level of profitability possible through its CAM technology, makes it a great addition to Partners in THINC."

"The opportunity to partner with Okuma in this manner is a unique opportunity for both of our organisations," added Delcam's Chief Executive, Clive Martell. "By joining forces with Okuma in this manner, we will have the opportunity further improve our products' integration with Okuma machine tools and controls, so allowing Okuma users to become even more productive when using our software to program their machine tools."

 [Click here to return to Contents](#)

Delcam Thailand's User Meeting Attracts Record Numbers

19 September 2013

CIMdata PLM Industry Summary

Delcam Thailand attracted more than 170 delegates, a record attendance, to its 2013 User Group Meeting, which was held in Bangkok last month. The Meeting included details on the latest versions of Delcam's complete range of CAD/CAM software, plus presentations from sponsors HP, ABB Robots, Mazak, Renishaw and Sandvik.

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

The benefits of using the Vortex strategy will vary depending on a number of factors, including the material and shape being cut, and the machine tool and cutting tools being used. A series of trials run by Delcam on different machine tools within its Advanced Manufacturing Facility has shown that a time saving of at least 40% is not untypical, with savings of 71% found when cutting a sample in tool steel.

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

The 2014 version of Delcam's FeatureCAM feature-based CAM software was also demonstrated during the Meeting. This new release includes a number of new options for turning, four-axis rotary machining and turn-mill operations. Other enhancements in this release include more strategies for two-axis finishing and easier programming of probing sequences.

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

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

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

With many of Delcam Thailand's customers being toolmakers, there was strong interest in the latest

CIMdata PLM Industry Summary

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

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

 [Click here to return to Contents](#)

Germany's DHBW Switches to Siemens Software for 3,600 Engineering Students

19 September 2013

Germany's Baden-Wuerttemberg Cooperative State University's (DHBW) 3,600 students of mechanical engineering are making a major shift in the software they use for engineering design. The DHBW, the largest university in Baden-Wuerttemberg, has decided to switch from their current technology to Siemens' [NX™](#) software, a leading integrated solution for computer-aided design, manufacturing and engineering analysis (CAD/CAM/CAE), developed by Siemens' product lifecycle management (PLM) business unit. The software shift will begin this month as the new semester commences.

The transition is being facilitated by an in-kind software grant from Siemens that gives DHBW mechanical engineering students and faculty access to the same technology that companies around the world depend on every day to develop innovative products in a wide variety of industries including automotive, aerospace, machinery, shipbuilding, high-tech electronics and many more. Graduates with this type of software training are highly-recruited candidates for advanced technology jobs.

“The DHBW needs to ensure its students are using industry leading technology in the classroom,” said Prof. Tobias Ankele, DHBW Stuttgart. “We are closely aligned with industry manufacturers and we have seen a spike in requests for graduates with training in Siemens' PLM software technology. Our primary goal is to supply our company partners with a pool of graduates who have the right skill set to meet today's engineering and manufacturing challenges.”

The ability to enhance and grow an effective talent base is core to competitiveness among traditional manufacturing leaders and is increasing among emerging market challengers, according to the 2013 Global Manufacturing Competitiveness Index from Deloitte Touche Tohmatsu Limited. The Index found that access to talented workers is the top indicator of a country's competitiveness, followed by factors like foreign trade, financial and tax systems, and the cost of labor and materials.

CIMdata PLM Industry Summary

“Strong partnerships between industry and educational entities are critical in ensuring the local workforce has the skills and experience to fill highly skilled manufacturing jobs. Dual education programs can simplify the transition from student to worker status, but being able to say that you can be immediately effective can make the transition even easier,” said Thorsten Walz, manager Academic Partners at Siemens PLM Software in Germany. “The DHBW plays an important role in the German economy because its dual education programs enable students to complete their education quickly and meet business needs in the areas where businesses and DHBW campuses are already located.”

The DHBW offers its dual education programs in cooperation with industry and non-profit institutions looking to attract and retain top talents. With eight DHBW campuses across Baden-Wuerttemberg and dual education programs focused on practical, hands-on applications, students are able to work with one of the college’s cooperative education partners while they learn. Concurrent education and training means that the DHBW must ensure it is using technology that is in high demand in the market.

The in-kind grant was provided by Siemens PLM Software’s GO PLM program that delivers PLM software technology to more than one million students yearly at more than 11,000 institutions around the world.

 [Click here to return to Contents](#)

I-Cubed Hires New Directors Scott Willette and Rick Towner

18 September 2013

I-Cubed, an enterprise technology solutions provider, has announced the hiring of Scott Willette as the Director of Products and Innovation, and Rick Towner as the Director of Technical Services.

Willette leads full product lifecycle initiatives at I-Cubed, with expectations to launch multiple products into the software and services market. He currently leads the Products team, responsible for the lifecycle of I-Cubed products, from idea inception to product sunset.

Prior to joining I-Cubed, Willette was the Vice President of Global Product Development at LexisNexis where he led an international team that peaked at 300 members. He brings 19 years of experience, having held multiple leadership roles in small to enterprise level organizations with concentrations on advancing product delivery and revenue growth in emerging technologies.

“I-Cubed houses tremendous talent and potential for continued growth,” said Willette. “I am looking forward to leading the product team to solve user productivity problems through software solutions.”

Towner oversees I-Cubed’s PLM Consulting and Migration Center of Excellence (MCE) divisions and is responsible for fulfilling client needs through the delivery of high-quality product lifecycle

CIMdata PLM Industry Summary

management (PLM) and data migration services.

Towner served in leadership positions for global operations/services and business development for a number of Fortune 500 companies in the domains of customer service, finance, procurement, and professional and technical services. Most recently, he worked at Cisco Systems as a Senior Leader in technical services and business operations.

“There is great opportunity in front of I-Cubed, and I’m committed to leading our team to provide top-notch service that brings value to our partners and customers,” said Towner.

President and CEO of I-Cubed, Donald A. Thompson, Jr. said, “Scott’s proven track record in bringing product to market and Rick’s expertise in delivering successful, service-focused leadership are skills that I-Cubed needs to grow our business.”

 [Click here to return to Contents](#)

Lectra Appoints Charlie Xu as Vice President of Sales, Fashion for Greater China

17 September 2013

Lectra is pleased to announce the appointment of Charlie Xu as vice president of sales, fashion for Greater China. Based in Shanghai, he reports to Andreas A. Kim, managing director, Lectra Greater China.

Charlie Xu is responsible for helping Lectra’s fashion customers in China improve their design and development capabilities and make their business processes more efficient. “Lectra’s position as a technology leader in fashion can bring considerable benefits to its customers in China. Our understanding of the fashion industry strengthens our complete range of innovative technologies and value-adding services to ease collaboration and create synergies internally, between teams, as well as with suppliers, making Lectra an indispensable partner,” commented Andreas A. Kim. “Charlie’s inside-out knowledge of China’s top fashion brands means he can support them effectively so they derive the maximum value from Lectra’s solutions.”

The Chinese fashion market is undergoing a transition period. A large number of apparel manufacturers have started to develop their own designs and brands. This has made the environment more competitive than ever before. “There are currently more than 11,000 fashion companies in China with combined revenues of RMB 1.25 trillion (\$200 billion). The top 100 brands contribute over 30% of total business, and we see this consolidation continuing in the future. The brands that succeed in this concentrated market will be those that are able to build a competitive advantage through collaboration and by leveraging technologies such as 3D virtual prototyping and integrated design and development platform solutions,” said Daniel Harari, Lectra CEO.

CIMdata PLM Industry Summary

“Lectra’s solutions allow fashion companies to work smarter and more efficiently and to produce higher quality products faster than before. This is crucial in China, where domestic fashion companies have expanded aggressively during the past few years, resulting in record-high inventory levels. Furthermore, owing to the compound effect of increased raw material costs and higher wages, Chinese fashion brands need to become more innovative and agile in order to stand out from the competition,” added Charlie Xu.

 [Click here to return to Contents](#)

Recognizing MECAS ESI's Long Standing Merits in Supporting the Czech Automotive Industry

19 September 2013

ESI Group is proud to announce that [MECAS ESI](#), the Czech subsidiary of the group, has been awarded "Company of the Year" by the Czech Automotive Association, [AutoSAP](#).

Founded in 1989, the Automotive Industry Association (AIA) represents the interests of the Czech ground transportation manufacturers, their suppliers, other companies and institutions involved in the Czech automotive industry.

On September 4, 2013, in Prague, Vladimír Volák, member of AutoSAP's Steering Committee and Zdeněk Novák, Internal Relations Manager, Deputy Director of AutoSAP, jointly delivered the "Company of the Year" award to Karel Lunacek, COO of MECAS ESI.

This award highlights the contribution of ESI to the successful development of the Czech automotive industry during the past two decades. ESI Group started collaborating with leading Czech carmaker [ŠKODA](#) as early as the mid 90's; supporting the fine-tuning of the crash performance of the first generation ŠKODA Octavia. These were the first industrial scale crash simulations performed in the Czech Republic.

In the following years, ESI started working with the Czech [Vehicle Research Center](#) and several of [ŠKODA](#)'s suppliers, including the design company [Swell](#) and the engineering services branch of [Evektor](#). ESI also initiated long-standing relationships with highly regarded Czech Universities such as the [University of West Bohemia](#) in Pilsen, and the [Technical University of Liberec](#).

In 2001, ESI acquired its Czech distributor, Mecas, and created the local subsidiary [MECAS ESI](#), based in Pilsen. This new entity became responsible for the development of the Group in the whole of Eastern Europe.

Initially focusing on crash performance, ESI's work in the Czech Republic soon included stamping simulations, enabling material properties and the chained effects of manufacturing processes to be taken into account when building Virtual Prototypes. From this start, [MECAS ESI](#) progressively expanded the

CIMdata PLM Industry Summary

scope of their competencies, which now include advanced CFD (Computational Fluid Dynamics) simulation services.

Today, strengthened by collaborative work, the Czech Automotive industry has gained global competitiveness and delivers cars rated amongst the safest in the world. Indeed, the crash performance of ŠKODA's vehicles have been [rated 5 stars at EuroNCAP](#) several years in a row and attest to the success of the Czech Automotive industry.

 [Click here to return to Contents](#)

SAP Appoints Maggie Fox SVP of Marketing for Digital, Social and Community

18 September 2013

[SAP AG](#) today announced the appointment of Maggie Fox as senior vice president of Marketing, focused on digital, communities and social. She will report to SAP Chief Marketing and Communications Officer Jonathan Becher.

Fox has partnered closely with SAP over the past six years, working with teams across the company to help develop social media and digital content strategies. Prior to joining SAP, Fox was founder and CEO of Social Media Group, established in 2006 and one of the world's most highly respected independent agencies helping businesses navigate the socially engaged Web.

"Maggie will drive the next digital chapter at SAP, unifying our Web properties with our community presence through a social-first approach," said Becher. "Maggie's diverse experience advising companies from multiple industries, coupled with her close understanding of SAP, make her the ideal new leader for this team."

Fox is an industry thought leader and influencer, with a large following on [Twitter](#) and of her popular [blog](#). She has been interviewed by Inc. magazine, The Washington Post, CBC Radio, The Globe and Mail, CBC News, CTV News and The Financial Post, among others. In 2011, The National Post named her one of Canada's Top Innovators. Fox sits on the boards of GetElevate.com and the Heart and Stroke Foundation. She will be based in Toronto.

 [Click here to return to Contents](#)

SAP Leads Global Sustainability Rankings

13 September 2013

[SAP AG](#) announced that it has been ranked the most sustainable software and services company by [Dow Jones Sustainability Index](#) (DJSI) for the seventh consecutive year. The company also achieved inclusion in the [CDP's Global 500 Climate Disclosure and Performance Leadership Indexes](#) [PDF]. The rankings recognize the exemplary actions SAP has taken to embed sustainability across its business worldwide and its efforts to continuously reduce carbon emissions since 2007. Both reports are aimed at

CIMdata PLM Industry Summary

helping investors and other stakeholders understand how listed companies are managing financial, social and environmental risks and opportunities.

Since its inception in 1999, the DJSI has become the leading benchmark for investors that integrate sustainability considerations into their portfolios. In the 2013 DJSI, SAP has sector-leading scores in 15 of the 21 key dimensions, up from 12 last year. These include Brand Management, Supply Chain Management, Climate Strategy, Environmental Reporting, Operational Eco-Efficiency, Labor Practices & Human Rights, Human Capital Development, Social Reporting and Talent Attraction & Retention.

The accompanying [Industry Leader Report](#) [PDF] for DJSI says, "In 2012, SAP AG published its first Integrated Report, merging its financial reporting from its Annual Report with its sustainability reporting procedures. Such a move demonstrated SAP's commitment to integrating sustainability into the entire company's strategy and business model." SAP is further commended for its "internal efficiency measures that have contributed to a cumulative cost avoidance of EUR 220 million," employee retention-focused programs and corporate social responsibility activities.

SAP was also recognized by the CDP, a non-profit that manages the world's leading global environmental disclosure system. The CDP [Global 500 Climate Change Report 2013](#) [PDF] recognizes SAP both for its approach to disclosing climate change-related data and actions to mitigate the risks of climate change. For the first time SAP attained inclusion in CDP's Global 500 Climate Disclosure Leadership Index; it is the company's second year on CDP's Global 500 Climate Performance Leadership Index (CPLI.)

The official rankings for both indices were announced on September 12, 2013.

SAP has also been nominated for the German Sustainability Award in the category "most sustainable strategy for the future." The award is endorsed by the German Federal Government, the National Council for Sustainable Development and numerous scientific organizations and associations, including UNESCO and UNICEF. One of the most prestigious sustainability awards in Europe, winners will be announced on November 22.

"At SAP, we are driven by the vision to help the world run better — through our solutions for customers and consumers, our own internal operations and by giving back to society," said Peter Graf, chief sustainability officer, SAP. "This week's public recognition of SAP as a worldwide sustainability leader is result of our achievements in realizing this goal. This is a tremendous validation of our efforts to embed sustainability across the company globally and help ensure the long-term success of our customers' and our own business."

 [Click here to return to Contents](#)

Tata Consultancy Services Ranks 50 on 2013 InformationWeek 500

13 September 2013

Tata Consultancy Services announced that it ranked 50 on this year's InformationWeek 500— a list of the

CIMdata PLM Industry Summary

top technology innovators in the U.S. The full list can be on www.informationweek.com/500. This year TCS broke through to the top 5 in the IT Industry Category.

“At TCS, we believe in the importance of using our technological innovation skills to give back to the communities where we work and live,” said Alok Kumar, Vice President & Global Head - Internal IT and Shared Services. “We are delighted to be recognized by InformationWeek for our optimization of energy consumption through green IT innovation.”

The company's most recent InformationWeek recognition reflects TCS' work to optimize energy consumption through the usage of energy efficient and environment friendly infrastructure. By optimizing the performance of datacenters, improving information system efficiency, reducing TCS' carbon footprint, and managing e-waste, TCS enabled sustainable business development. TCS innovatively used technologies such as server consolidation and virtualization, optimized cooling infrastructure, utilized intelligent Power Distribution units, enabled paperless offices through digitization, and rolled out indigenously developed videoconferencing solutions, improving worldwide connectivity and reducing travel.

These initiatives:

- Conserve a potential of 500 MWH of energy
- Prevent carbon emissions of 263.33 tons of CO2 annually
- Generate 6-10% in energy savings by optimizing cooling capacity
- Reduced paper consumption by 10% as compared to previous year
- Overall, reduce the energy consumption per person by over 6% as compared to previous year

"The theme of this year's InformationWeek 500 is digital business. It's a movement, rooted in data analytics, mobile computing, social networking and other customer-focused technologies that are turning companies and industries on their ear," said InformationWeek Editor In Chief Rob Preston. "Every enterprise is now a digital business — or needs to become one fast. The companies in our ranking are leading the way".

InformationWeek identifies and honors the nation's most innovative users of information technology with its annual InformationWeek 500 listing, and also tracks the technology, strategies, investments, and administrative practices of some of the best-known organizations in the country. Past overall winners include Beth Israel Deaconess Medical Center, PACCAR Inc., The Vanguard Group, CME Group, National Semiconductor, Con-Way, and Principal Financial Group. Unique among corporate rankings, the InformationWeek 500 spotlights the power of innovation in information technology.

Additional details on the InformationWeek 500 can be found online at www.informationweek.com/iw500/.

 [Click here to return to Contents](#)

TCS Demonstrates Significant Commitment to Building Expertise in Oracle Products

19 September 2013

Tata Consultancy Services announced that it has been recognized with the FY13 Certified Implementation Specialist Leader award from [Oracle PartnerNetwork \(OPN\)](#) for its commitment to customer enablement by achieving Oracle product certifications. The award signifies TCS' commitment to implementing Oracle solutions on a large scale and recognizes TCS for certifying the largest number of new implementation specialists, more than 500, in Oracle's high value growth products during fiscal year 2013 (June 1, 2012 - May 31, 2013).

TCS has a long standing relationship with Oracle, dating back to 1987. Today, the company is a [Diamond level member](#) of Oracle PartnerNetwork. With more than 15,000 Oracle certified specialists across a variety of different product and specialty areas, TCS' specialists are equipped with the tools they need to develop and implement end-to-end solutions (such as Oracle on Oracle) for their customers. These trained specialists are supported by TCS' Centers of Excellence — eleven dedicated to Oracle technologies alone — which serve joint TCS Oracle customers in Asia Pacific, Europe, South Africa, the Middle East and North America.

“We are committed to delivering comprehensive, industry leading services to our customers and we consider our relationship with Oracle and our own consultant certification program, to be key components of that strategy,” said Sridhar Bakshi, Global Head, [Oracle](#), TCS. “We are proud to say that we are leaders in product certification. This demonstrates our commitment to being a valued partner for Oracle and ensures that our customers around the world are equipped with the Oracle solutions they need to support business growth.”

“The partner enablement and certification process provides Oracle customers the reassurance that their consultants have met and passed stringent testing requirements in specific products,” said Andy Bailey, Senior Vice President, Strategic Alliances, Oracle. “TCS is committed to ensuring their consultants are certified in Oracle's product suite, including our newest technologies, as they continue to expand their global Oracle delivery capabilities with a constant focus on delivering significant results to customers.”

 [Click here to return to Contents](#)

Trace One Takes Home Two Bronze Stevie® Awards at the American Business Awards SM

18 September 2013

[Trace One](#), a global leader in private label, product lifecycle management (PLM) solutions for retailers, manufacturers and suppliers, was twice named a bronze Steve® Award winner in the product lifecycle management (PLM) category at the [2013 American Business Awards](#) (ABAs) at San Francisco's Julia Morgan Ballroom on Monday evening.

CIMdata PLM Industry Summary

Trace One's Packaging Manager, which provides a collaborative, cloud-based environment for package design, was honored with the bronze award in both the "New Product/Service Collaboration Software" and "Computer Services – Company of the Year" categories. More than 250 executives attended the event.

"These awards reinforce Trace One's leadership in the private label lifecycle and supply chain management industries. We look forward to continued success and validation as we grow and strengthen our presence in new markets, and provide new solutions that improve stakeholder collaboration, consumer safety and confidence, and supply chain efficiency," said Jerome Malavoy, founder and CEO of Trace One.

More than 3,200 nominations were submitted from organizations of all sizes and in virtually every industry this year, and more than 320 executives nationwide participated in judging to determine this year's Gold, Silver and Bronze Stevie Award winners.

To learn more about Trace One, please visit www.traceone.com. To better understand Trace One's customer and market success, [watch this YouTube video](#).

 [Click here to return to Contents](#)

University of Maryland Receives Largest Ever Software Grant from Siemens

17 September 2013

The University of Maryland (UMD) and Siemens Corporation announced today the largest ever in-kind software grant from Siemens PLM Software. The in-kind grant has a commercial value of more than \$750 million. Siemens' product lifecycle management (PLM) software will provide UMD students and researchers with a uniquely valuable and sophisticated design and simulation tool for course work, research, academic projects and team-based competitions.

This in-kind grant from Siemens gives students and faculty access to the same technology that companies around the world depend on every day to develop and manufacture innovative products in a wide variety of industries, including automotive, aerospace, biotechnology, machinery, shipbuilding, and high-tech electronics, among others.

"We are very grateful to receive this valuable software from Siemens that will help our students develop innovative design capabilities and prepare them for advanced technology careers," said UMD President Wallace Loh.

UMD students and faculty will use the software in courses and research related to robotics design, bioengineering, space systems, product engineering, manufacturing, and systems life cycle analysis.

CIMdata PLM Industry Summary

Student groups will use the software in their efforts to compete in national and international competitions, including the Terps Racing Formula SAE and Baja teams, and teams participating in NASA's X-Hab and Lunar Wheel Design competitions.

“As product complexity continues to grow, students with PLM software experience are expected to be highly recruited. Global manufacturers need highly trained graduates to help them make smarter decisions that result in better products. This software grant enables UMD to integrate world-class PLM technology into its curriculum. The result enables students to be better prepared graduates to work in science, technology, engineering or math fields,” said Chuck Grindstaff, president and CEO, Siemens PLM Software.

Access to the software will also help students to advance their professional careers after they complete their degrees. Graduates with Siemens' PLM software training are highly sought after by corporate recruiters seeking candidates for advanced technology jobs.

“Our students will benefit tremendously from using Siemens PLM software for course work, special projects, and international competitions, and their experience with the software will help them succeed in the workplace as graduates,” said Dean of UMD's A. James Clark School of Engineering and Farvardin Professor of Aerospace Engineering Darryll Pines.

“Maryland is improving the climate for advanced manufacturing, as seen in the uptick in Maryland manufacturing jobs,” said Maryland Secretary of Business and Economic Development Dominick Murray. “This partnership between a major corporation and the state's flagship university bodes well for continued job growth and advances in research.”

The software in-kind grant represents an important component of the comprehensive partnership between UMD and Siemens Corporation, which includes student recruitment, as well as collaborative activities in energy, transportation, neuroimaging, biomedical devices, and fire safety, among other research and development areas. UMD is located just a few miles from Siemens' USA headquarters in Washington, D.C., and recently hosted President and CEO Eric Spiegel as part of UMD's Robert H. Smith School of Business CEO@Smith lecture series. Spiegel also serves on the UMD Energy Research Center Advisory Board.

“At Siemens, we believe our success is determined by our ability to anticipate and engineer the future,” said Eric Spiegel, president and CEO, Siemens Corp. “This partnership provides us access to the next generation of innovators and inventors and establishes a framework for the mutually beneficial exchange of technologies, research and ideas.”

 [Click here to return to Contents](#)

Events News

3D Printing Software Solutions on Display at TCT Show

18 September 2013

Leading software providers MachineWorks Ltd and Tech Soft 3D are demonstrating a new combined software solution aimed at 3D Printing and Additive Manufacturing users and bureaus. It will provide robust data conversion, solid healing and viewing to cloud-based applications without the need for any specialised 3D knowledge or expertise.

The solution combines best-of-breed polygonal modelling from MachineWorks - Polygonica - with cloud based visualisation and translation from Tech Soft 3D - HOOPS Communicator. The cloud solution is designed to allow users to upload files in a wide variety of common CAD formats. The models can be viewed, shared and inspected in real time, through zero-client web browsers as well as mobile devices. Formats supported include CATIA, Pro/E, NX, SolidWorks, STEP as well as many others.

Polygonica from MachineWorks provides fast, built-in and fully automatic solid model healing to ensure that all models are ready for printing. It also provides metrics such as build volume, bounding box and surface area for quoting algorithms. Polygonica can also hollow out parts prior to printing. The Polygonica technology is founded on 20 years of development and provides a full set of fast, robust and easy-to-use polygon modelling operations, including solid healing, boolean operations, offsetting and simplification. Polygonica is available as an SDK.

See Polygonica in action at Stand G33, Hall 3A. <http://www.tctshow.com/>

 [Click here to return to Contents](#)

Altium to Demonstrate the Power of Altium Designer at UK Electronics Design Show

19 September 2013

[Altium Limited](#) and its UK value-added reseller [Premier EDA Solutions](#) will showcase the industry leading electronics design tool Altium Designer at the [Electronics Design Show](#) in Coventry on 2nd – 3rd October 2013.

Visitors to Stand K10 can experience the power of Altium Designer and see native 3D PCB design capabilities allowing seamless ECAD/MCAD collaboration, learn about advanced data management for electronics design giving better control over libraries, design data and production processes - and more.

"We are delighted to be headline sponsors with Premier EDA Solutions. The UK electronics design community will be amongst the first to see the latest and exclusive previews on new products," says

CIMdata PLM Industry Summary

Frank Krämer, Director Global Solution Marketing & Partnerships with Altium.

In a showcase of UK innovation, stand visitors will be able to see some of the exciting products designed and built in the UK using Altium Designer.

"We share a common passion with show organisers Findlay Media for the success of UK engineering and are very much looking forward to showcasing some of the fantastic technology designed using our products," says Phil Mayo, MD of Premier EDA Solutions.

Taking place 2nd – 3rd October 2013 in the Jaguar Exhibition Hall at the Ricoh Arena, Coventry, the Electronics Design Show aims to provide UK design engineers with all aspects of electronics design under one roof. Alongside seeing technology from more than 80 exhibitors, visitors will also have the opportunity to access best practice learning during a 2-day conference and free workshop program.

As part of the workshop sessions, Altium industry specialist Robert Huxel will be providing practical tips on tackling today's electronics design data management challenges, from concept right through to production.

There will be a number of exciting announcements for the show, so make sure to follow Premier EDA Solutions on Twitter (@PremierEDA2013) for the very latest developments.

More details and information on how to register for the workshops are available [here](#).

 [Click here to return to Contents](#)

Aras to Present at CMII Europe 2013 in Zurich

18 September 2013

Aras® today announced that it will present at CMII Europe 2013 in Zurich, Switzerland. CMII Europe is the region's leading conference for enterprise-wide configuration management. Developed by the Institute for Configuration Management, the 2013 conference theme is "Best Showcases for Configuration Management." Speakers from a wide range of industry segments, including automotive, aerospace & defense, and electronics, will share their configuration management solutions.

CMII Europe 2013 takes place September 30 – October 2 at the Renaissance Zurich Hotel, in Zurich, Switzerland. CMII is used worldwide for improving and harmonizing business processes to avoid cost by reducing waste. Organizations operating in the corrective action mode spending a high ratio of their resources on intervention will benefit from the CMII method. To learn more and register for the CMII Conference visit <http://www.cmconference.com/index.php>

Rolf Laudenbach, Director of Partner Services and Consulting at Aras, will present "CMII Integrated

CIMdata PLM Industry Summary

Requirements and Systems Engineering - Making Innovation Traceable” on Tuesday Oct 1, 2013 at 14:30. Aras is CMII certified with a 4 star rating by the Institute for Configuration Management delivering industry best practices for corporate confidence and CMII success. Attendees can learn more about Aras product lifecycle management in the Partner Exhibition

 [Click here to return to Contents](#)

AVEVA exhibits at NEVA 2013 in St. Petersburg

16 September 2013

AVEVA announced today that it is an exhibitor at the 12th International Shipping, Shipbuilding and Offshore Energy Exhibition, NEVA 2013, taking place 24-27 September at the Lenexpo in St. Petersburg, Russia.

In Hall 8A, visitors to the AVEVA stand 8A15 will be able to see a host of software solutions for the shipbuilding industry. AVEVA will demonstrate its latest release of its Integrated Engineering & Design Solution AVEVA Marine™, focusing on the exciting new features recently introduced such as Pipe Fabrication, a set of comprehensive design tools for generating right-first-time production data for pipes, and AVEVA Automated Plate Nesting™, which optimises material use in ship and offshore construction. In addition, AVEVA will showcase its solutions for laser scanning within the marine industry and its newly acquired solution AVEVA Bocad™ for steel and offshore structures.

AVEVA experts will also present the integrated AVEVA Enterprise Resource Management™ (AVEVA ERM™) suite of applications that support the complete planning, fabrication and production process for shipbuilding. Through integration with AVEVA Marine’s design and engineering applications, AVEVA ERM helps to significantly streamline all shipyard work processes, improving efficiency in the manufacture of ships and other marine assets from the earliest stages of the project lifecycle.

AVEVA ERM is purpose-designed for the needs of shipbuilders

'Large international events such as NEVA allow us to showcase our solutions in the shipbuilding industry,' said Evgeny Fedotov, Senior Vice President, Russia, India & Middle East, AVEVA. '90% of the world’s ten largest shipbuilders rely on AVEVA for the most powerful and comprehensive solution set available. AVEVA technology is used in almost every sector of the shipbuilding and offshore industries, from the most massive bulk carriers and complex cruise ships, through advanced naval vessels, large FPSOs and semi-sub platforms and down to the smallest offshore support vessels. We look forward to sharing this at NEVA.'

 [Click here to return to Contents](#)

CNC Software, Inc. Showcases Mastercam X7 at SOUTH-TEC 2013

17 September 2013

CIMdata PLM Industry Summary

SOUTH-TEC 2013 attendees will get to experience the most powerful Mastercam machining software yet. Stop by booth # 719 at the TD Convention Center in Greenville, SC, October 29-31 for a look at Mastercam X7, the latest Mastercam release. Mastercam X7 introduces many significant new capabilities, including the new Mill-Turn product, Renishaw Probing, and much more.

New Mastercam Mill-Turn

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

Renishaw Probing

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

New Lathe Dynamic Rough Toolpath

The Lathe Dynamic Rough toolpath is designed for hard materials cut with button inserts. The dynamic motion allows the toolpath to cut gradually, remain engaged in the material more effectively, and uses more of the surface on your insert, extending tool life and increasing the cutting speed.

Also available in Mastercam X7:

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

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

 [Click here to return to Contents](#)

Singtree Technologies to Demonstrate Intellimas® at Ideation2013, Gerber Technology's Annual

Software Conference

19 September 2013

Singletree Technologies, an innovative supplier of software to Retail and Wholesale brands in the Fashion Industry, has announced it will sponsor Gerber Technology's annual software conference called Ideation2013. Singletree will showcase the latest release of its software product Intellimas®, a grid based application that helps enterprises better manage data in their Product Life Cycle Management or ERP systems. Singletree will show how Intellimas® can improve the user experience of nearly all software implementations. Intellimas® is ideal for business processes which require both mass data entry and analysis at the same time. Customers have used Intellimas® to manage business functions such as Comprehensive [Product Costing](#), [Sample Tracking](#), PO generation, Work in Process Tracking, [Quality Management](#), and Vendor Compliance.

“No software implementation completely aligns with the expectations of the client,” said Shane Walters, CTO of Singletree Technologies. “Intellimas® is a cost effective extension that closes implementation gaps while improving the user experience. Enhanced usability is even more critical when you collaborate with vendors all over the globe and our customers have seen this first hand.”

Vincent Candela, President of Singletree Technologies said, “Once again, we are pleased to partner with Gerber Technology to sponsor their annual user's conference. We have a long history of working together to provide strategic solutions to the fashion and retail industries. Sponsoring this conference consistently allows us to get in front of new prospects and existing customers to showcase our software.”

 [Click here to return to Contents](#)

Financial News

Oracle Reports Q1 Results

18 September 2013

Oracle Corporation announced that both fiscal 2014 Q1 GAAP and non-GAAP total revenues were up 2% to \$8.4 billion. GAAP new software licenses and cloud software subscriptions revenues were up 5% to \$1.7 billion while non-GAAP new software licenses and cloud software subscriptions revenues were up 4% to \$1.7 billion. Both GAAP and non-GAAP software license updates and product support revenues were up 7% to \$4.4 billion. Hardware systems products revenues were \$669 million. GAAP operating income was flat at \$2.9 billion, and GAAP operating margin was 34%. Non-GAAP operating income was up 4% to \$3.7 billion, and non-GAAP operating margin was 45%. GAAP net income was up 8% to \$2.2 billion, while non-GAAP net income was up 6% to \$2.8 billion. GAAP earnings per share were up 14% to \$0.47, while non-GAAP earnings per share were up 12% to \$0.59. GAAP operating cash flow on a trailing twelve-month basis was \$14.8 billion.

CIMdata PLM Industry Summary

Without the impact of the US dollar strengthening compared to foreign currencies, Oracle's reported Q1 GAAP earnings per share would have been up 17% and non-GAAP earnings per share would have been up 14%. GAAP and non-GAAP total revenues also would have been up 4%; GAAP new software licenses and cloud software subscriptions revenues would have been up 7% while non-GAAP new software licenses and cloud software subscriptions revenues would have been up 6%.

"Non-GAAP earnings per share increased 12% to \$0.59, the best ever result for the first quarter of our fiscal year," said Oracle President and CFO, Safra Catz. "Those record level earnings were enabled by an operating margin of 45% for the quarter. We also set a free cash flow record of over \$6 billion in Q1, and then we returned half of that to our stockholders by repurchasing \$3 billion of our shares in the quarter."

"Engineered systems had its best ever Q1 in terms of unit sales, growing over 60% compared with the same quarter last year," said Oracle President Mark Hurd. "New software license results were especially strong in the Americas, which saw 15% growth in constant currency."

"Next week at Oracle Open World, we will announce the In-Memory Option for the Oracle database," said Oracle CEO, Larry Ellison. "Virtually every existing application that runs on top of the Oracle database will run dramatically faster by simply turning on the new In-Memory feature. Our customers don't have to make any changes to their applications whatsoever; they simply flip on the in-memory switch, and the Oracle database immediately starts scanning data at a rate of billions or tens of billions of rows per second."

The Board of Directors declared a quarterly cash dividend of \$0.12 per share of outstanding common stock. This dividend will be paid to stockholders of record as of the close of business on October 8, 2013, with a payment date of October 29, 2013.

Q1 Fiscal 2014 Earnings Conference Call and Webcast

Oracle's Q4 results and Fiscal 2013 financial tables are available on the Oracle Investor Relations website. A replay of the conference call will also be available by dialing (719) 457-0820 or (888) 203-1112, Passcode: 7920718.

 [Click here to return to Contents](#)

Implementation Investments

17,300 Parts? Easy to Maximise Profits with e2i

19 September 2013

"e2i helps us to be quick, and makes sure we're efficient while we're being quick." So says Jason

CIMdata PLM Industry Summary

Austin, MD of Unifabs Ltd. And for a company that was manufacturing prototype samples less than 18 hours after an initial enquiry for 800 supermarket point-of-sale stands, speed and efficiency is their norm.

While the world's most powerful sheetmetal CAD/CAM software, Radan, drives their Amada punch/laser combination and punch press, the e2i multi-purpose management system is vital for achieving maximum potential from each job – and therefore maximum profit.

“Radan and e2i are as important to us as any machine,” he says. “Everything we do is based around this software.” Having set up Unifabs with a business partner in 2007, he took full control in 2011 and felt they were not reaching full potential on many contracts. Step in, e2i.

“When we estimate a job, in effect we're allocating the number of hours it'll take to complete, and using e2i we now record every hour that someone spends on it. For example, if we've quoted 50 hours for a contract and e2i tells us it's come out at 75 hours we analyse the data to see whether we quoted it wrong at the start or whether we're not as efficient on the shop floor as we should be.”

Not that Unifabs are too far out with their original quotations nowadays. Jason Austin cites the 800 point-of-sale stands for a supermarket chain as a perfect example. “The initial enquiry came in at 4.30 p.m. with dxf files, quantities of each part and material spec for a total of 17,300 parts. With e2i we didn't need our CAD programmer to nest the parts quickly and get good material utilisation – I simply fed the data in – X, Y, Z co-ordinates and material spec – then using sheet selection e2i very quickly told me how many parts we'd get to a sheet and the cost of the material, meaning I could give the customer an accurate price.”

He says it was just one click to put the contract on to e2i, generating route cards displaying the material and the processes quoted for, which were passed on to the shop floor to make the samples. These were updated after the customer's sample approval.

“As soon as we got the purchase order, all the information from the quote went through on to the contract. So even on a contract involving thousands of items, it only takes a couple of minutes to generate the route cards for the shopfloor.” It also meant we could generate a quick PO for their suppliers, as they needed material the following day to start manufacture. And e2i handled the goods-in function just as efficiently. “Because we'd planned the order correctly from the start, the route cards included the goods-in note for batch traceability, and when the CNC operator got the route card it showed the goods-in note number, the stock allocation and where the stock was in the factory.”

Radan created the programs maximising material usage for hundreds of sheets of 1.5 mm and 3 mm CR4 mild steel to be cut overnight on their two automated Amada machines. Between them, the EML 3610 NT punch laser and the AE 2510 NT can process a total of ten tonnes of steel on an unmanned production run.

CIMdata PLM Industry Summary

As each route card progressed across the shop floor an operative booked on their own part of the process. “When it got to the end of the end of the job we knew the last operation had been carried out, so at despatch we got the route cards together and generated the delivery note.”

The combination of Radan and e2i meant Jason Austin could respond to the original query extremely quickly and then fulfil the order on time, while ensuring profitability. “From getting the part planned and generating the quotation from it is so quick. Then from the quotation stage, putting it on an order and generating route cards and a contract for the shop floor, we’re talking minutes.” And that’s how Unifabs has built its reputation for speed of turnaround and consistent quality for the shopfitting and point of sale sector, the automotive industry, metal cabinets, shelving, brackets, storage facilities, and yellow goods.

“e2i generates quotes, pulls essential information together and creates accurate costs, then follows those costs and times during the job’s lifecycle on the shop floor through to despatch and invoicing, ensuring we stay on top of every contract, hit the times we’re looking for and make a profit.

“The good thing about e2i Shop Floor Data Capture giving constant feedback is that once we’ve delivered a contract we can look back over every aspect of it to see how well we’ve performed. In this economic climate we respond when our customers need us to, and Radan and e2i are the tools we use to achieve this.”

 [Click here to return to Contents](#)

Costain Achieves Significant time Savings with AVEVA Laser Modeller

17 September 2013

AVEVA today announced Costain, a leading UK Engineering Contractor (EPC) has achieved significant time and cost savings using AVEVA Laser Modeller. As an early adopter of the AVEVA software, Costain utilised the technology for a major North Sea oil & gas facility upgrade project. AVEVA Laser Modeller enabled the rapid conversion of nearly 1,000 laser scans into intelligent, as-built 3D plant models (in AVEVA PDMS), which helped to ensure the planned plant shutdown period of just 10 days.

“We faced a number of significant delivery challenges at the start of this project, including the need to minimise plant shutdown during revamp,” said Chris Bridgland, the Head of Engineering Delivery at Costain. “By adopting the best technology for the job, our dedicated team of expert engineers overcame these challenges and achieved the seemingly impossible by demonstrating impressive time and cost savings. We estimate that we were 2-3 times quicker for pipework modelling and 4-5 times for steelwork structural engineering.”

“By adopting a ‘survey to CAD’ technology approach, Costain was able to reduce risks such as safety, access restrictions and construction accuracy”, added Fredy Ktourza, Senior Vice President – Western Europe & Africa, AVEVA. “The production of an as-built 3D model of the facility allowed Costain to plan the revamp work very accurately, avoiding unexpected on-site modifications that could have

resulted in huge delays and costs.

“By joining AVEVA’s Early Adopter programme, Costain was able to take advantage of this powerful new technology ahead of its official release in 2012. In turn, AVEVA gained valuable knowledge from the use of the product in a real-world project environment. This proved be extremely beneficial for both parties and we are very pleased with what Costain has been able to achieve.”

AVEVA Laser Modeller software is hardware-neutral, accepting data from all leading laser scanning systems. Unique in the laser scanning market, it removes the need to produce interim ‘dumb’ geometric models. To learn more about AVEVA Laser Modeller visit www.aveva.com/AVEVA_Laser_Modeller.

 [Click here to return to Contents](#)

Windchill Bulk Upload Tool and Methodology by Etrage is used by TWeatherford, Inc.

18 September 2013

Etrage LLC announced that TWeatherford, Inc. has successfully applied Etrage Bulk Loader software tool and methodology in migrating SolidWorks models to PTC Windchill® at a Midwest electronics manufacturing company, owned by a conglomerate.

Etrage Bulk Loader quickly migrates, uploads, and checks in a large quantity of CAD data, CAD metadata, and documents from a Windows file system into PTC Windchill. Used in conjunction with Etrage SolidWorks Preparation Tool, it identifies model dependencies, validates against existing CAD files in PTC Windchill, and identifies conflicts.

The data migration process is specific to each customer’s needs and involves not only the use of software tools, but also a migration methodology. The combination of the Etrage Bulk Loader and the company’s unique approach allows for capturing the entire history of CAD models and recreating it in PTC Windchill.

“Our migration methodology and Bulk Loader tool not only enables the migration of CAD models and documents, but it includes capturing of metadata and history”, stated Bojan Rapaic, director of development at Etrage. He continued, “We control the process by validating what has been migrated against the files already in Windchill, enable editing of attributes, and manage all model dependencies.”

Tim Weatherford, TWI vice president commented, “Using the Bulk Loader and SolidWorks Preparation Tool allowed our team to load a large number of models to Windchill in a significantly shorter period of time. The preparation tool quickly identified duplicate models and those with missing dependencies which were resolved prior to loading into Windchill. TWI will use the Etrage Bulk Loader for all future migrations from other PLM applications or Windows folders.”

CIMdata PLM Industry Summary

Etrage Bulk Loader migrates PTC Creo[®] and PTC Pro/ENGINEER[®], SolidWorks[®] and Siemens NX[®] drawings, assemblies, and parts, AutoCAD[®] drawings and Microsoft Office documents into PTC Windchill 9, 9.1 & 10, 10.1 & 10.2 Other CAD formats can be added upon request.

 [Click here to return to Contents](#)

World Leader in Envelope Tracking (ET) Technology Selects Omnify Software for PLM

17 September 2013

[Omnify Software](#) today announces its latest Empower PLM implementation customer case study featuring Nujira, Ltd., a world leader in Envelope Tracking (ET) technology and solutions for powering energy efficient 4G cellular terminals, base stations and digital broadcast transmitters.

Nujira implemented the Empower PLM solution from Omnify Software to gain better control over their engineering data and processes for PCB designs. The company was using a component management database that was initially sufficient for their needs, but as Nujira grew, it became inadequate to control information such as Engineering Change Orders (ECOs) and product documentation. The company also had to address concerns associated with various sources and versions of data that were a consequence of their manual processes.

“We had silos of information that were the result of people creating and saving documents locally and we continuously ran the risk of someone using outdated information,” stated Richard Sharples, CAD Engineering Manager for Nujira, Ltd. “An error from sending the wrong data to a Contract Manufacturer could potentially cost tens of thousands of pounds.”

By implementing the Omnify Empower PLM solution, Nujira created a central location to access and manage product information such as ECOs, BOMs (Bills of Materials) and documents. The company also took advantage of Empower PLM’s tight integration with Mentor Graphics Expedition[®] PCB in order to develop a closed-loop, error-free process that eliminates the need for any manual editing. Design engineers are able to utilize the power of the Omnify database by selecting components directly from Empower PLM and placing them onto schematics. A BOM is then generated from the final schematic and loaded directly into Empower PLM.

“Our previous process to import a Parts List from a schematic took well over an hour to complete (for every Parts List) and now it takes only a few minutes,” said Mr. Sharples. “Checking an ECO has also been reduced from a full day to only a matter of seconds due to the redlining capability of Empower PLM.”

“Because our customers’ products are typically complex with a mixture of electrical and mechanical components, it is important for them to have efficient product development processes in place,” stated David Solimini, Vice President of Sales for Omnify Software. “As paper-based methods become too cumbersome to effectively manage data such as changes, revisions and documents, customers like

CIMdata PLM Industry Summary

Nujira adopt Empower PLM as an ideal solution to help obtain control over their information through [automated processes](#) and centralized information.”

To read and download the entire case study, visit <http://www.omnifysoft.com/Customers/Success.aspx?customer=29>.

 [Click here to return to Contents](#)

Product News

Aras and Trubiquity Announce TRUaras Cloud-based Secure File Exchange Service Embedded in Aras PLM Platform

16 September 2013

Aras® and Trubiquity today announced the availability of TRUaras, a Cloud service embedded in the Aras Innovator PLM platform for managed file transfers (MFT). With TRUaras users can securely share and exchange large CAD files, technical data packages, manufacturing data, inspection and test results and other intellectual property with full tracking and traceability.

Included at no charge in every Aras download, TRUaras is an integrated service with no file size limitation for companies that run Aras. Developed for global enterprises seeking to simplify secure collaboration with customers, suppliers, outsourced manufacturing and contract manufacturing partners, TRUaras brings compliance-grade file exchange directly into the PLM workflow.

“TRUaras provides a seamless way for global supply chain partners with thousands of simultaneous users to manage large, complex file transfers such as CAD assemblies while ensuring the highest levels of security for intellectual property,” said Stephen Koons, CEO and President of Trubiquity. “With TRUaras users can collaborate across the extended enterprise with complete confidence from within the Aras PLM environment.”

TRUaras uses Aras’s connected cloud capabilities to embed Trubiquity’s managed file transfer service directly inside Aras Innovator providing an easy and secure means to transfer files and conduct regular data transactions while adding encryption, tracking and traceability. TRUaras can be extended with additional subscription-based services including private corporate communities, direct integration into other PLM systems, and connectivity with the full range of Trubiquity’s online services.

Designed to replace disconnected, multi-step procedures like FTP and methods that lack security such as email and consumer file sharing sites, TRUaras is ideal for companies that need to securely share large sets of files such as CATIA, Creo and NX assemblies with suppliers, or that frequently transmit product designs such as PDX files to contract manufacturers.

CIMdata PLM Industry Summary

“TRUaras puts advanced file exchange capabilities right in the heart of the product development process, giving companies in automotive, aerospace, high tech and other industries with global supply chains the collaborative environment they want with the security, tracking and compliance they require,” said Peter Schroer, President of Aras.

TRUaras Highlights:

- **Seamless** - Embedded in the Aras PLM platform for an integrated user experience and maximum productivity
- **Encryption** - Endpoint-to-endpoint security capabilities via authentication and multi-layer encryption including 128-bit SSL, 256-bit AES (Advanced Encryption Standard) and 1024-bit private key
- **Traceability** - Complete audit trail of all file transfers including the date and time, companies and individuals that conducted file uploads/downloads
- **Visibility** - Track and monitor file movement in real-time from pending transfer status to post transfer receipt
- **Compliance** - Support for Odette OFTP2 compliance and export compliance such as ITAR and EAR (Export Administration Regulations)
- **Performance** - Industry leading transfer speeds with high availability and uptime

Learn more about TRUaras at <http://aras.com/plm/002035>

 [Click here to return to Contents](#)

BETA CAE Systems S.A. announces the new v14.1.3 release of the ANSA & μETA pre- & post-processing suite

18 September 2013

BETA CAE Systems S.A. announces the release of v14.1.3 of the ANSA & μETA pre- and –post processing suite. This maintenance release focuses on the correction of identified problems and issues for ANSA and μETA v14.1x branch. The most notable resolved problems are listed by category in the link below.

All the code corrections introduced in v14.1.3 had also been propagated to v14.2.0 which has already been released with additional corrections and enhancements.

This release of v14.1.3 is addressed to those who wish to continue to use the v14.1x branch, with its issues resolved, and not to upgrade to 14.2x.

CIMdata PLM Industry Summary

To view an unabridged version of this press release, visit: http://www.beta-cae.gr/news/20130917_announcement_ansa_meta_v14.1.3.htm

 [Click here to return to Contents](#)

CAM by OPEN MIND: hyperMILL® 2013

16 September 2013

OPEN MIND Technologies AG is releasing hyperMILL® 2013. The many improvements and extensions found in the new version of this popular CAM software solution provide even more efficient usage of modern NC machines and cutting tools. At the same time, the software further cuts down on programming time and extends tool life.

One of the highlights of *hyperMILL*® 2013 is its extension for '5axis contour offset finishing': Barrel cutters can now be used here. This strategy uses the large effective radius of the barrel cutter with a point milling contact style. The radius of the milling tool allows increased step-over distances between passes for free-form surfaces. The software's new 'Rib milling' cycle was jointly developed by OPEN MIND and a leading German automotive manufacturer. This is good news for tool makers who need to mill deep, narrow cavities for ribs in their moulds. The cycle automatically detects grooves to be milled and steep areas and floors are machined separately. Depending on the workpiece geometry, the system selects a suitable roughing strategy, and contiguous areas are completely machined.

Modules for specialists

The connections between tool paths and depths have been smoothed for the roughing and floor machining of impellers and blisks, which is one of the special applications within *hyperMILL*®. The tire module, which is designed for the efficient machining of tire moulds, has also been improved. Specifically, OPEN MIND has developed a 'Tire Browser'. The tire clock component of this browser contains all relevant tire design information (segment, tracks, pitch sequence, pitches).

Soft movements

Machine tools are becoming increasingly dynamic. Along with fast acceleration, this also results in a shock to the structures and even to the cutting tools. OPEN MIND is counteracting this with its improved strategies in *hyperMILL*® 2013. One example for softer movements that are easier on machines is 'Extended contour compensation'. This new function analyses the tool paths for areas where sudden changes in direction may be encountered. As part of contour compensation, small transition radii are then inserted at critical contour changes. Movements have also been softened for 5axis drilling: It is now possible to use rounded infeeds in G1 with an increased feedrate for connection moves between drill holes. This makes the tool movements more constant and harmonious, while also reducing positioning times.

Another example of the CAM solution's tool-saving strategies is a 'Variable stepover' for mill turning with ceramics inserts. Gradually ascending/descending infeed depths during roughing ensure that the

full length of the inserts is made use of.

CAD for CAM users

CAD-integrated solutions are crucial for continuous workflows. Joining the existing Autodesk Inventor and SolidWorks integrations, *hyperMILL*® 2013 is released together with the *hyperCAD-S*® solution. This was developed by OPEN MIND specifically to address the requirements of CAM users.

 [Click here to return to Contents](#)

Delcam Launches Vortex High-Speed Roughing Strategy in PowerMILL 2014

16 September 2013

Delcam has launched the 2014 release of its PowerMILL CAM system for high-speed and five-axis machining, which includes, as its major enhancement, the new Vortex high-efficiency area clearance strategy.

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

Like other Delcam roughing strategies, Vortex toolpaths are calculated to give more efficient machining by following the shape of the part and by keeping air moves to a minimum. This is particularly important for rest machining operations.

The benefits of using the Vortex strategy will vary depending on a number of factors, including the material and shape being cut, and the machine tool and cutting tools being used. A series of trials run by Delcam on different machine tools within its Advanced Manufacturing Facility has shown that a time saving of at least 40% is not untypical, with the biggest percentage savings being found when cutting tool steel on a Huron machine with SGS Z-Carb MD cutters. The cycle time for the sample part was reduced from 121 minutes to 34 minutes, a reduction of 71%.

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

One fundamental problem with conventional area-clearance strategies is that the optimum cutting conditions only occur during a straight-line cut. Any internal corners within the model significantly increase the engagement angle of the cutter. To protect the cutter, this increase needs to be balanced by setting a lower feed rate. The user then has the choice of using this lower rate over the whole toolpath, which increases the machining time, or varying the feeds and speeds as the cutter moves around the

model and so increasing wear on the cutter.

Unlike other high-speed roughing techniques that aim to maintain a constant theoretical metal-removal rate, the Vortex strategy produces toolpaths with a controlled engagement angle for the complete operation. This maintains the optimum cutting conditions for the entire toolpath that would normally be possible only for the straight-line moves. As a result, the cutting time will be shorter, while cutting will be undertaken at a more consistent volume-removal rate and feed rate, so protecting the machine.

Because Vortex toolpaths have a controlled engagement angle, tools should never be overloaded and so will achieve the maximum tool life. Shock loading caused by changes in the contact angle is minimised, preventing chipping of the flutes. In addition, the stability of the cutting conditions gives more consistent edge temperatures, so prolonging the life of the tool coating and removing heat damage to the surface of the part. Finally, the ability to use stepdowns of up to two, or even three times, the tool diameter spreads the tool wear evenly over the cutting surface of the tool, again contributing to longer tool life.

Vortex is fully-integrated with the PowerMILL's step-cutting strategy for area clearance. This approach minimises the terracing that can result from using a large stepdown by moving back up the part after generating the initial area clearance program and generating automatically extra toolpaths to remove additional material at intermediate slices. It optimises the amount of material that can be removed with a single tool, while helping to maintain a more consistent removal rate by increasing the feed rate for the intermediate slices.

"Anyone using the Vortex strategy will be able to hear the difference immediately," claimed Mark Forth, Product Manager for Delcam's Advanced Manufacturing Solutions. "Conventional roughing produces a sound of varying pitch, which indicates that the optimum cutting conditions are not being used and could even be a sign of tool overload or chatter. In contrast, Vortex roughing gives a constant pitch, showing that the tool is operating under consistent conditions. Users will also be able to see the difference in the regular size and thickness of the chips produced, providing further evidence of the consistency of the cut."

 [Click here to return to Contents](#)

Design Data and Nemetschek Scia Team Up to Integrate BIM into the Steel Delivery Process

18 September 2013

Design Data, in cooperation with Nemetschek Scia, has developed a bi-directional link that allows Steel Fabricators to view in real-time the production status of parts and assemblies in an SDS/2 steel BIM model, as well as allow production to automatically view the status of any changes that occur in design.

"As Building Information Modeling changes the steel delivery process, steel fabricators can realize huge

CIMdata PLM Industry Summary

benefits by bi-directionally linking SDS/2 models to model-based planning and automated fabrication systems,” said Doug Evens, Design Data's vice president of sales.

“With the bi-directional link between SDS/2 and Nemetschek Scia Steel Manager, fabricators can automatically create detailed production plans and easily manage resources across multiple projects directly from an SDS/2 steel BIM model. The link can also reduce costly mistakes by helping the design and productions teams better communicate the statuses of parts and projects across the entire steel manufacturing process,” continued Evans.

To learn more about these new workflows, Nemetschek Scia will host a session at the 2013 SDS/2 Users Group Conference September 18-20, in Omaha, Neb., USA. The session will highlight the benefits of a new partnership between Design Data and Nemetschek Scia to push forward integrated model-based fabrication workflows to the steel industry.

The session will illustrate how steel fabricators can leverage SDS/2 models to:

- Automatically update Steel BIM models with the statuses from production, and make production aware of any changes that happen in design
- Visualize at any point in time the statuses of design, production, delivery and erection of single or multiple projects running simultaneously
- Simulate the production process in order to virtually route parts and reallocate resources to eliminate bottlenecks and optimize production
- Identify problems before they result in delays and issues on the site
- Automatically nest parts, generate CNC production data, receive feedback and manage all machines from a centralized system
- Improve quality management tracking (including welds) with full traceability of parts from order to fabrication through erection
- Seamlessly link production and planning to ERP systems for accurate financials

“By teaming up with SDS/2, fabricators can now easily leverage BIM models and data, from design through construction. By centralizing all design, project and production information into a single integrated workflow, fabricators can easily monitor and visualize in 3D the status of any part from order to erection,” said Dan Monaghan, U.S. Manager, Nemetschek Scia.

For more information the on Nemetschek's Scia Steel Manager, please visit <http://nemetschek-scia.com/en/software/product-selection/scia-steel>.

For more information on SDS/2 or the Design Data's 2013 SDS/2 User Conference, please visit: <http://sds2.com>.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

EMA Automates 3D STEP Models with EDABuilder Library Automation Solution

17 September 2013

EMA Design Automation (ema-eda.com), a full-service provider of electrical and mechanical CAD tools, announced EMA EDABuilder® 3.0 with 3D STEP model automation. “Engineering models represent a constant challenge for PCB designers,” said Manny Marcano, president and CEO of EMA. “EDABuilder introduces an innovative approach for automating the complete library process flow. Starting with the data sheet and the industry’s most advanced PDF data sheet extraction, schematic symbols and PCB footprints are created in a fraction of the time. With the introduction of the 3D STEP modeling and automation of the mechanical models, EDABuilder provides a complete library automation solution.”

This approach enables customers to take advantage of a “single data sheet input source” for both automation and verification between the mechanical and electrical models. Consistency and verification insures a complete and validated set of engineering models for both the electrical and mechanical engineers. With the industry-standard STEP format and schematic symbols, and PCB footprints exported in multiple EDA formats, customers will realize the competitive advantage of EDABuilder, which supports the wide range of customer owned CAD system exports.

PCB footprint automation is supported across the full range of component families including 100% of surface mount parts defined in IPC-7351 as well as commonly used through-hole parts, and all have 3D model generation capabilities.

The process, driven by rules, settings, and form entered component dimensioning, accurately builds both PCB footprints and the 3D STEP models in a consistent and repetitive process. Users enter via the forms the PCB component dimensioning using the IPC-7351 or recommended manufacturer dimensioning. The mechanical dimensioning is entered on the same forms and displayed on both the front and side mechanical views.

Mapping and scaling is performed automatically based on the component type to an embedded 3D template. Using this template technology, fine levels of granularity and details are achieved. The 3D STEP models can be imported directly into the mechanical design tools, where additional details, graphics, or corporate styles may be applied. They may also be exported directly into Cadence® Allegro® and OrCAD® PCB Editors with origins, offsets, and alignments automatically assigned.

EDABuilder 3.0 includes a number of other enhancements including the ability to import symbol and footprint libraries from a number of popular schematic and PCB editing tools. This allows comparison between a schematic symbol and a PCB footprint to verify consistency between the components. Making these comparisons ahead of time helps engineers and designers find library problems earlier in the design process, reducing change costs and time.

“Providing the capability to create so many different 3D STEP models automatically will be a big help

CIMdata PLM Industry Summary

for any designer that wants to view a PCB design in 3D,” said Keith Felton, Product Marketing Group Director, Cadence Design Systems. “It also helps the MCAD team to start their work with a 3D board populated with correct models.”

 [Click here to return to Contents](#)

Ideate, Inc. Launches an Extensive Online Learning Program, the Ideate CADLearning Portal

17 September 2013

Ideate, Inc., an Autodesk Gold Value Added Reseller, announced the launch of the Ideate CADLearning Portal, an expansive online learning resource that enhances Ideate Classroom, Custom and On-site Training.

Ideate CADLearning is designed to provide on-demand training to architectural, engineering, and construction (AEC), and media & entertainment (M&E) design professionals at every skill level. Access to the Portal is available around the clock and around the world from any computer. Ideate CADLearning tools provide:

- Self-paced training to further knowledge and maximize performance with Autodesk BIM and CAD solutions, and Ideate-developed Autodesk Revit-based solutions.
- A ‘knowledge search for targeted training’ feature that guides the user to immediate, highly selective help for specific aspects of a project, and includes recommendations for training modules.
- Assessment, including exams that pinpoint areas for skill strengthening and applicable trainings.

The Ideate CADLearning Portal has been developed to meet increasing demands for specialized AEC and M&E design software training. Design and creation software technology is fast-advancing. Design professionals work and learn remotely while they face compressed schedules. Ideate CADLearning complements more traditional Ideate Classroom Training and provides the flexibility for customers to train and learn on the software they use in the ways that benefit them most.

“We are very pleased to launch our Ideate CADLearning Portal,” says Bob Palioca, president of Ideate, Inc. “Blended learning opportunities are integral to our customers’ training experience. Whether they want to fine tune skills, keep abreast of the most recent design software advances, or address a specific design hurdle through targeted knowledge, Ideate CADLearning will help our customers maximize their productivity in today’s highly competitive environment.”

For more information, call Ideate Education at 888.662.7238 x1012, email education@ideateinc.com, or visit the Ideate CADLearning Portal.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Infinite Skills' "AutoCAD Plotting and Publishing Training Video" Helps Users Streamline Output Processes

15 September 2013

Software training firm Infinite Skills Inc. this week released its "AutoCAD Plotting and Publishing Tutorial," a specialized course for experienced AutoCAD users targeting setup, tools, and techniques for increasing efficiency in the output phase of an AutoCAD design workflow.

AutoDesk's AutoCAD 2014 has a large set of features that help with plotting large and complex design documents, including options to select views, control annotation settings, and select from multiple file types.

With "AutoCAD Plotting and Publishing Training Video," Infinite Skills offers a concise advanced course focused solely on publishing, providing users with a comprehensive knowledge AutoCAD's output features that will allows users to maximize AutoCAD's capabilities for organizing and streamlining the process.

Course author Shaun Bryant is a training consultant with 20 years of hands-on experience as an AutoCAD user in civil and structural engineering practice. He has worked for Autodesk in sales support and training, and is currently an Autodesk Approved Instructor, holding AutoCAD 2013 Certified Professional status. Bryant currently provides AutoCAD training and consultancy professionally.

Following an introduction to plotting and publishing in AutoCAD, Bryant begins by exploring some general issues involved in output including using the STARTUP variable, working in metric and imperial units, as well as the model and layout tabs. He then looks at the page setup manager, demonstrating how to control output setup.

Following chapters look at issues such as publishing with AutoCAD viewports, which provide multiple views within a project, and working with scale and annotative scale.

The course closes with chapters looking at plotting tools and techniques, including plot orientation, plotter selection, customizing plot sizes, working with various file types; and finally publishing features, looking at the publishing dialogue box, sheet lists, set up and working with plot stamps.

"In this course," Bryant explains, "students will develop plotting and publishing skills so when we're working in the office we're much more productive and we work smarter."

Free demo videos and a full list of course contents can be found on the AutoCAD Plotting and Publishing training page of the InfiniteSkills website:

<http://www.infiniteskills.com/training/autocad-plotting-and-publishing.html>

 [Click here to return to Contents](#)

Infinite Skills Offers Access to Complete Training Library on a Monthly Subscription Basis

19 September 2013

Software training firm Infinite Skills Inc. went live last week with its new subscription-based sales option, providing customers with streaming access to the entire library of courses at a low monthly rate.

With the subscription option, the company now offers its customers unlimited access to its extensive library at a fraction of the retail cost of a full-length video course, providing both regular and new customers greater control over their purchasing decisions.

The move to a cloud-based subscription option comes following a six-year span that saw Infinite Skills grow from a start-up company in 2007, offering training of primarily creative software, to a distributor of a comprehensive library of quality training in the most current and cutting edge technology.

The Infinite Skills library currently houses more than 200 full-length courses, covering a wide range of topics from programming to mobile development and 3D CAD programs to the latest in Microsoft database management.

From the outset, the Infinite Skills training model has focused on providing easy access to a level of training that is more thorough and more detailed than other online services. The company hires only seasoned experts to author its courses, all with experience teaching their course material in a college setting or in high-level corporate training situations.

According to Infinite Skills president and chief operations officer Mike Morton, this approach has allowed the company to fill a gap in the technology education market between high-cost college classes, and other online services that offer less comprehensive training.

"The digitally delivered training sector was and still is growing at a fantastic rate," Morton says. "People are turning away from conventional classroom-based training due to cost and time restrictions, while books and written content often lack the engaging qualities of video-based training."

"Our model has been successful because it delivers the kind of high-level training usually found only in formal educational environments directly to the customer at an affordable cost."

In addition, Infinite Skills has taken advantage of the current trend in the tech-services model in which cloud-based content is increasingly applied in mobile situations, an emerging model that is already

CIMdata PLM Industry Summary

shaping the future of the way people interact with technology.

With the unlimited subscription plan, customers can now access all Infinite Skills courses on-the-go, even without an internet connection, using the company's iPhone and iPad applications.

According to Morton, the company plans to continue to enhance the customer experience by including features allowing customers to create playlists, access their usage history, and even take course notes and store them in the dashboard for individual courses.

"Other training providers have had similar services for some time," Morton says, "but we wanted to make sure we did it right. We didn't want a cluttered interface or complex features that would end up making it more difficult to use. We've built a very simple portal that is non-intimidating even for novice users."

Customers can access the subscription service by clicking on the "Purchase Options" button located on any Infinite Skills title page.

Infinite Skills offers all its titles as DVDs, direct download, or on a streaming subscription basis from the company website. The unlimited subscription plan is available at a rate of \$25.00 per month. Though the compatibility of covered programs varies, all Infinite Skills titles and formats are compatible with both Mac and Windows operating systems. Infinite Skills tutorials are accompanied by supporting project files which can be downloaded from the course dashboard for streaming customers.

 [Click here to return to Contents](#)

KeyCreator 2014 Now Available for Product Downloads and Trials

18 September 2013

[Kubotek USA](#) is now shipping KeyCreator 2014 in the Americas. KeyCreator 2014 contains many new, customer-driven features and numerous enhancements and updates. Additionally, a new photorealistic rendering option is available, as well as a new free student version.

As the most complete Direct Modeler available, [KeyCreator Direct CAD](#) is the CAD software choice for manufacturers, tool, die and mold makers, job shops and product designers. With continued focus on interoperability, KeyCreator can open and work with CAD files from nearly anyone or any CAD system. The new features and improvements aim to increase productivity and efficiency of many everyday modeling tasks, giving users even more options to build or edit CAD models quickly and with reduced likelihood of errors. A [What's New document](#) is available to highlight several product updates. [Watch this short Direct Modeling video](#) to see how easy creating a model can be in KeyCreator 2014.

KeyCreator 2014 will release both a wire-EDM option and animation with collision detection in a

CIMdata PLM Industry Summary

future, scheduled point release. Wire-EDM will be an available module for the integrated KeyCreator Machinist add-on product. Animation with collision detection will be available as part of KeyCreator Direct CAD.

An optional package for creating photorealistic images from 3D models is also available with [KeyCreator Artisan](#). This new application is an easy-to-use tool that contains pre-packaged lighting and environments and a library of drag and drop materials. Rendering options are defined and remain linked to the model throughout any model revisions or updates. With these plentiful rendering and image creation options, high quality photorealistic images can be quickly produced.

The new KeyCreator Student Version is available free of charge to approved, eligible students. Students simply need to [request a KeyCreator Student Version license here](#). The KeyCreator Student Version contains the same professional-level precision design tools as the commercial version of KeyCreator, including Adobe PDF output capabilities and 3D STL for rapid prototyping. File exporting capabilities are limited. The KeyCreator Student Version license is renewable annually. Students also have unlimited access to hundreds of online courses and learning aids available through Kubotek University.

Scott Sweeney, Vice President of Marketing states, “KeyCreator 2014 is the most complete, sophisticated, yet intuitive CAD system for companies that need to work with multiple CAD formats. This includes manufacturers, mold, tool and die makers, and sheet metal fabricators. With enhancements to both layouts and our unique direct editing widget—the Dynahandle—designing, editing and communicating designs has never been easier.” He continues, “I don’t think you can name any other package that allows you to work seamlessly to design and edit any CAD file, machine it, compare it, analyze it, validate the data, render it and export it accurately at a competitive cost without the need for weeks, months and years of training.”

KeyCreator users with active software maintenance agreements can access KeyCreator 2014 through the Kubotek Support Site and Download Center. Student version requests and free trials for KeyCreator Direct CAD and KeyCreator Artisan can be found at www.kubotek3d.com.

 [Click here to return to Contents](#)

Nemetschek Vectorworks Releases Vectorworks 2014 Software

17 September 2013

Nemetschek Vectorworks, Inc. is pleased to announce the release of the 2014 version of its award-winning Vectorworks® line of design software, including: Vectorworks Designer, Architect, Landmark, Spotlight, Fundamentals and Renderworks®.

“For the 2014 release of Vectorworks software, we have concentrated on customer workflows,” said Dr. Biplab Sarkar, Chief Technology Officer of Nemetschek Vectorworks. “The theme for this release can be summed up as ‘you have told us, and we have listened.’ Two of the new technologies I am most excited about are an innovative new visualization engine with fast interactive rendering, and a new, patent pending X-ray Select technology.”

CIMdata PLM Industry Summary

The Vectorworks 2014 software includes more than 130 improvements that were developed for better modeling, BIM management, interoperability, usability, performance, and quality. The 2014 product line also features new BIM tools for architects, increased site design capabilities for landscape architects and designers, as well as enhancements to lighting devices, documentation, and graphic controls for entertainment designers.

The following list provides a sampling of what design professionals will find inside Vectorworks 2014 software:

Enhanced 3D Modeling:

This release includes several key improvements to Vectorworks' already robust 3D modeling capabilities. Built on the industry's leading modeling kernel, Parasolid®, Vectorworks 2014 offers persistent rendered 3D navigation to provide designers with the ability to easily switch between 3D and rotated Top/Plan views; enhanced walkthrough capabilities, making walkthroughs in OpenGL faster than ever; and the new twist and taper tools that enable users to twist entire solids, solid faces, or NURBS surfaces, as well as taper the faces of 3D objects in a single snap. In addition, the new 3D X-ray Select (patent pending) allows users to temporarily see through solid objects in the area around the cursor.

Better BIM Tools:

The space, stair, window, door and roof objects have undergone several customer-driven improvements, including performance enhancements. Examples include space creation and manipulation, hidden line rendering, OpenGL rendered workflows and the ability to create and edit section viewports from the interactive Clip Cube. The Auto Hybrid object, which provides an easy way to turn arbitrary 3D geometry into a hybrid BIM object with both 3D geometry and a 2D plan, has received performance and display improvements that improve selection, editing and document size.

New Site Design Capabilities:

Developed specifically for landscape architects and designers, Vectorworks 2014's new site design capabilities include enhancements to plant shadows, making it faster and easier to create presentation-level site plans with interactive shadows. In addition, massing model improvements allow site designers to add and report the programmatic uses for building massing models on a floor-by-floor basis, and there is a new option to suppress the location adjustment for georeferenced data.

Improved Interoperability:

The Vectorworks Architect product was certified by buildingSMART International for the BIM data exchange standard IFC 2x3 Coordination View 2.0 for IFC Export in June 2013. Since then, continued improvements to Vectorworks' IFC capabilities have included new IFC worksheet functions, support for IFC zones and IFCXML import/export support. Additionally, users can now directly reference 2D and 3D DWG/DXF or DWF files in Vectorworks projects, making collaboration and team workflows simpler. Also, this release offers better support for complex line types, named colors and mapped fonts for text objects in DXF/DWG/DWF, as well as support of SQLite in ODBC.

Usability Improvements:

There are several designer-requested usability improvements. One example is the Publish command, which is a one-stop-shop for exporting and printing construction drawings. Other usability enhancements include support for cropping bitmaps, improvements to visibility, reshape, and dimension tools, and an improved keynote legend object. Additional improvements include Select similar by Plane, preview in Mirror tool, font preview in Format Text dialog and a Simplify Polys command.

Robust Rendering:

Our integrated rendering application, Renderworks, has a new displacement mapping option that provides the ability to make realistic renderings with materials like grass, carpet, water, bricks or stone. There is also additional support for images in brick shaders. A visualization engine with fast interactive rendering has also been implemented. This visualization engine, the Vectorworks Graphics Module, is a modular rendering system that provides a modern visualization infrastructure across the product line. It allows designers to work in a rendered mode with support for selecting and snapping non-occluded objects. This feature also includes the patent pending X-ray Select technology that allows designers to work with the occluded objects when needed.

Increased Compatibility:

Vectorworks 2014 is fully compatible with OSX Mavericks and also offers the Python 3 programming environment, with its thousands of libraries to efficiently develop scripts. This modern, popular scripting language has a large user base of students, academics and professionals around the world, and now, Vectorworks developers can create document scripts, as well as external plug-in parametric objects, tools and commands.

Cloud Services and Mobile Solutions:

Exciting new features for Vectorworks Cloud Services and mobile solutions are in the pipeline. In the near future, Vectorworks Cloud Services will be compatible with well-known storage solutions, and the mobile application, Vectorworks Nomad, will support better user interactions for measurement. Plus, there will be support for Vectorworks 2014 in Vectorworks Cloud Services and iOS7 support in Vectorworks Nomad.

Additional information about the 2014 release is available online.

Visit <http://www.vectorworks.net/2014> to learn more.

 [Click here to return to Contents](#)

PTC Expands Regulatory Compliance Capabilities, Broadens Support for Product Quality Processes, and Enhances Collaboration between Hardware and Software Development Teams

17 September 2013

[PTC](#) today announced the availability of the latest release of [PTC Windchill®](#) product lifecycle management (PLM) software. [PTC Windchill 10.2](#) adds capabilities to help manufacturers improve productivity and streamline compliance with new government regulations.

Streamline Compliance

With FDA regulated [Unique Device Identification \(UDI\)](#) compliance set to take place during 2014, [medical device manufacturers](#) need a solution that will reduce the effort needed to comply with the law. The regulation specifically mandates that every unique product, product version, and product configuration be assigned a UDI to be prominently displayed on its labeling.

In requiring medical device manufacturers to provide UDI-compliant labeling, the new regulation presents them with the significant challenge of efficiently handling the vast amounts of data required for UDI-compliant submissions for each and every product, including unique product versions, variants, configurations, and packaging.

As a result, PTC has developed a preconfigured, out-of-the-box technology solution, PTC UDI, to provide for the complete management and traceability of UDI data while retaining the flexibility needed to scale to future regulatory and product development changes. This includes:

- **Collecting and Managing** key UDI data from multiple data stores
- **Automating** the submission process with out-of-the-box review and approval workflows and pre-submission data validation algorithms identical to those used by the FDA;
- **Streamlining** the management of UDI data, both to accommodate product versions/variants and to meet the needs of future regulatory requirements from the FDA and other global agencies.

PTC Windchill 10.2 also includes many new quality related capabilities that help accelerate problem resolution. This includes tighter integration between powerful quality analyses tools and core change management processes to help improve product quality sooner – lowering the potential need for costly rework and customer issues.

PTC Windchill 10.2 expands compliance with existing Conflict Minerals legislation, as the first SEC filing deadline of May 31, 2014 fast approaches. PTC Windchill 10.2 now manages part level Conflict Mineral compliance status declarations in addition to existing supplier level Conflict Mineral compliance declarations. As a result, PTC provides a comprehensive conflict minerals management system to determine the presence of Conflict Minerals in products, perform reasonable country or origin inquiries and due diligence, report on conflict mineral compliance status, and integrate with critical product development processes.

Improve Productivity

Within PTC Windchill 10.2 users can:

- Visually interrogate data relationships – This release enables improved productivity by easily understanding the relationships between different product elements – including change requests and manufacturing process plans - using graphical flowcharts. This relationship navigation also extends to objects and requirements created using PTC Integrity™ application lifecycle management software.

CIMdata PLM Industry Summary

- Share product configuration options with ERP – This release ensures that the same configuration rules are enforced across both PLM and ERP systems.
- Visually construct process plans – PTC Windchill 10.2 enables increased efficiency by visually constructing – including building and playback – manufacturing process plans from the engineering BOM. Manufacturing engineers can easily create the process plan, using engaging visual tools that provide feedback to enable them to ensure all parts have been accommodated and the chance for errors has been reduced.

“This release adds 'See More' to PTC's ‘Do More, Know More, Get More' focus,” said industry analyst Monica Schnitger, Schnitger Corp. “By adding visual process planning, graphical relationship explorer and streamlined document management capabilities, PTC Windchill 10.2 gives users a clear, concise view into all aspects of the product lifecycle.”

“We are pleased to introduce the latest release in the PTC Windchill family, and have worked closely with our customers to deliver the right solution to meet the growing needs of today’s manufacturers” said Mark Hodges, divisional manager, PLM segment, PTC. “PTC Windchill 10.2 focuses on delivering speed and efficiency both to the enterprise, through streamlined compliance, and individual users, through improvements to enhance productivity.”

 [Click here to return to Contents](#)

QuadriSpace Announces Share3D Cloud-Based Collaboration Platform

18 September 2013

Today, QuadriSpace announced the immediate availability of Share3D™, a new cloud-based distribution and collaboration service with native apps for iPad, iPhone and PC users. Share3D empowers users beyond engineering, supports best-in-class collaboration and provides a high level of security.

Share3D directly leverages advanced 3D content. With 3D-based content, not simply models, the use of 3D in the cloud extends beyond engineering to downstream uses in manufacturing, marketing, sales and field service. In order to provide suitable content for these uses, content creation software enables the addition of informative content such as descriptive text, pre-captured and illustrated 3D views, step-by-step procedures, exploded views with balloons and custom parts lists. Access to QuadriSpace Publisher3D™, a leading 3D content creation software, is included as part of each Share3D user account so additional software purchases are not required. SolidWorks, Autodesk Inventor, Pro/E, Rhino, Google SketchUp, DWF, STEP, IGES and other exchange formats are supported.

Share3D apps are dedicated to enhancing the communication between collaborators leading to faster responses and fewer errors. During collaborations, the specific model view and newly created markups are associated with a comment to greatly enhance collaboration and team understanding. Submitted comments are captured in the cloud, shared with other participants and archived for future reference. Recalling a comment with one of the Share3D apps sets the 3D view to the viewpoint and

CIMdata PLM Industry Summary

applies the markups present when the comment was submitted.

The unique email-in-the-loop feature provides the ability for participants that are not using the Share3D web page or apps to engage in a collaborative session by simply replying to automatically generated emails. These email replies are captured, shared and archived in the same manner as other comments, extending the collaborative chain to everyone without requiring anyone to change their work process.

Share3D security is strengthened because native 3D CAD files remain local and only lightweight 3D information is published to the cloud, guaranteeing that original 3D CAD files are not available. Share3D is hosted on Amazon's highly secure network where user files are encrypted using the AES-256 standard, which is the same encryption standard used by most banks to secure customer data. Lightweight 3D content is shared privately and can only be viewed by those specifically invited to participate in a project.

Share3D offers a free plan where users can collaborate on up to 3 projects; new accounts can be created for free at www.share3d.com/accounts/new. Paid plans for Share3D enable more projects, more collaboration tools and more content creation features and can be explored online at www.share3d.com/plans. For more information on QuadriSpace products, cloud-services and collaborative apps, visit www.quadrispace.com.

 [Click here to return to Contents](#)

RS Components Brings 3D Design Capability to all Engineers with DesignSpark Mechanical

16 September 2013

RS Components (RS) and Allied Electronics (Allied), today announced the launch of DesignSpark Mechanical, a new 3D solid modelling and assembly tool that is available to all - totally free of charge.

Developed in conjunction with SpaceClaim, the provider of flexible and affordable 3D modelling software for engineers, the new easy-to-use DesignSpark Mechanical will bring major benefits to design engineers around the world and is available in multiple languages. It is a significant step in the evolution of the DesignSpark online resource hub for the engineering community.

The availability of DesignSpark Mechanical overcomes the two major barriers to entry faced by potential users who do not currently have access to a 3D design solution, but who could benefit enormously from the use of 3D modelling to quickly develop sophisticated concepts and products. These impediments are the prohibitive costs and the considerable investment in learning time associated with traditional 3D CAD tools. Not only is DesignSpark Mechanical free, its simplicity of use means that engineers and others involved in product development can become fully conversant with the software within minutes, rather than the weeks or months required to become skilled with traditional 3D CAD tools.

CIMdata PLM Industry Summary

"The launch of DesignSpark Mechanical is the first time a 3D design tool with this level of sophistication has been made freely available. Engineers will love using modelling software that is so intuitive and flexible," said Glenn Jarrett, Global Head of Product Marketing at RS Components. "The use of DesignSpark Mechanical early in the design cycle can eliminate much of the time-consuming rework associated with traditional product development processes. This is a highly significant initiative that helps engineers to bring innovative products to market quickly, and DesignSpark Mechanical's STL output format enables direct export of designs to 3D printers."

With access to more than 38,000 3D models in the extensive DesignSpark online component library, DesignSpark Mechanical gives all engineers the ability to rapidly undertake an end-to-end design with professional-grade modelling tools that are at zero cost. RS and Allied have also collaborated with world-leading 3D content company TraceParts to provide access to millions of models from the online tracepartsonline.net CAD portal in DesignSpark Mechanical format.

"Allied and RS are partnering with SpaceClaim to launch DesignSpark Mechanical, which combines the power and ease-of-use of direct modelling technology from SpaceClaim with access to the massive library of standard parts from RS and Allied, trusted by millions of engineers around the world," said Rich Moore, vice president of business development for SpaceClaim. "Feature-based CAD is more difficult to learn and with DesignSpark Mechanical, users can rapidly create 3D models to accelerate engineering design and improve their competitive advantage."

The active base of 3D CAD seats globally is currently estimated at approximately 1.5 million. However, it is also estimated that there are an additional 20 million engineers globally who do not currently use 3D CAD, but could significantly benefit from a tool such as DesignSpark Mechanical. It will not only enable design engineers to be more creative, but will also support a more efficient product development process, allowing the production of professional concepts right through to delivering highly detailed and dimensioned manufacturing blueprints.

DesignSpark Mechanical employs a powerful methodology called 'direct modelling', which is very different from traditional feature- or parametric-based 3D CAD software. The tool uses simple gestures that enable real-time editing and instant feedback, making it possible for engineers and others to create geometry and easily explore ideas and product concepts in 3D. All basic designs can be achieved quickly and easily via the use of the software's four basic tools - Pull, Move, Fill and Combine - in addition to its employment of familiar Windows keyboard shortcuts such as cut/paste, undo/redo, which makes it highly intuitive for new users.

The software can also be used as a complementary 3D tool in the product development process for the creation of early concept designs, for instance, alongside 3D CAD tools that are already in use today. The tool can remove bottlenecks in the early design process by allowing changes and additions in seconds, rather than having to wait for the CAD department using the traditional 3D tools to rework the design.

3D designs can also be exported in STL, the standard file format to enable rapid prototyping builds and

CIMdata PLM Industry Summary

computer-aided manufacturing, in addition to providing the ability to quickly obtain Bill-of-Materials (BOM) quotes via the RS and Allied websites. The tool can also import circuit layout files in IDF format from any PCB design tool, including the award-winning DesignSpark PCB software.

DesignSpark Mechanical is available for free download from <http://www.designspark.com/mechanical>. Access further information at <http://uk.rs-online.com/web/generalDisplay.html?id=press&file=2013/16-09-designspark-mechanical>. Support can be found on the DesignSpark community at <http://www.designspark.com>.

 [Click here to return to Contents](#)

Technia Announces the Release of the Technia Integration Framework

12 September 2013

Technia has launched the first release of the Technia Integration Framework (TIF). By offering simple configurability at a low cost of ownership, Technia's aim is to greatly improve the way companies manage PLM integrations to enterprise systems.

Based on demands from key customers, Technia, an Addnode Group subsidiary, launches its TIF to modernize and integrate the customers' PLM system with Enterprise integration architecture. The development has been conducted in close cooperation with several experienced customers, offering valuable working insight of their systems and ensuring the TIF to deliver true customer value.

The TIF will reduce cost and complexity for customers' enterprise integrations to PLM systems, while increasing flexibility and the speed of implementation. This is carried out by providing supported software that will plug in to customers' enterprise integration architecture. TIF is based on modern technologies and integration standards with connectors available for ENOVIA and many other Enterprise Integrations software. This allows for smooth integrations to many common systems, for example Enterprise Resource Planning (ERP).

“Technia Integration Framework is a milestone in Technia's vision to make life simpler and reduce cost for companies utilizing PLM. Based on our 19 years of experience from working with some of the world leading companies, we know that enterprise integrations is one of the most complex and cost driving areas in the PLM landscape. I'm very pleased with the close collaboration we have had with our key customers in developing this revolutionizing product. And I'm very proud of the Technia team that made this happen,” says Jonas Gejer, CEO, Technia AB.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Zuken Launches Industry's first PCB Layout Productivity App with Mobile Interaction

17 September 2013

In a first for the EDA market, Zuken has launched a PCB design productivity app that allows today's generation of PCB designers to interact with layouts using their own tablet or smart phone. The CADSTAR Touch App enables users to control Zuken's CADSTAR expert desktop PCB design software, giving simultaneous control of view and program functions, and enabling faster, more efficient design.

The free App is available now with the latest CADSTAR release, which also features enhanced Activ-45 router and pusher technology that makes changing existing designs significantly faster and easier.

“There are some real benefits to be gained from using this App – especially the numerous small time savings and the ease-of-use that it offers. As long-time users of CADSTAR, we are pleased to see the continual progression of the software and that Zuken has been quick to adopt apps, making use of devices that are now part of everyday life.”- Ian Broughton, Senior Electronics Design Engineer C-TEC

Zoom, pan, view

The App uses your iOS™ or Android™ mobile device's Wi-Fi connection to communicate with your PC on the same local network. Android users have the benefit of voice control. Features offered include: pinch to zoom, drag to pan and double tap to view all. Designers can customize the App to give quick access to user-defined macros for the CADSTAR functionality and sequences they use most often, thus saving time.

CADSTAR Touch is available for free from the App StoreSM (iPhone®, iPad® or iPod touch®) or the Google Play™ Store (Android).

Activ-45 router and pusher technology

Also included in the latest version of CADSTAR 14 is new routing technology that makes last minute design changes faster and easier. The Activ-45 router is a true 45-degree routing algorithm that routes effortlessly through even the densest areas of a design. Taking advantage of enhanced pusher technology, the route path will follow the cursor with minimum disruption of existing routing patterns.

The Activ-45 router makes space for itself by pushing existing routes and vias aside, while always obeying design rules. Where necessary, it will flip existing routes over pins and pads to create even more space, such as when creating a BGA fan-out. At any point before completing the route, if the cursor is moved back towards the starting point, the routes will spring-back to their original position.

For more information about how to download and use the new CADSTAR Touch App see www.zuken.com/CADSTAR-touch or take a look at our [CADSTAR Touch movie \(1:32\)](#) or [blogpost](#).

 [Click here to return to Contents](#)

ZWCAD Touch V1.2.0 Released, with Greater Compatibility and Mobile Design Productivity

16 September 2013

[ZWCAD Design](#) today unveiled [ZWCAD Touch V1.2.0](#), the latest version of the mobile DWG editing App for ZWCAD+. The new version provides DWG 2013 support and SmartVoice, inherited from [ZWCAD+ 2014](#). In addition, the newly-added polar tracking, object snap, image insertion, annotation and [data sharing](#) features will help simplify the workflow while enabling faster design creation and better collaboration.

“The new version of ZWCAD Touch will facilitate collaboration of mechanical and architectural teams during product development,” said Daniel Huang, Product Manager of ZWCAD+. “It streamlines the design phase, and reduces product delays, resulting in higher design productivity and faster time-to-market.”

Improving Data Interaction with Greater Compatibility

ZWCAD Touch has strengthened its compatibility by supporting DWG 2013 to ensure better daily interaction. Higher versions of DWG files are now accessible, allowing designers to communicate with project shareholders, manufacturers and clients more fluently and accurately.

Producing Accurate Designs with Precision Drawing Tools

ZWCAD Touch V1.2.0 offers two new precision drawing tools to help designers produce accurate drawings faster with greater automation to avoid tedious calculations.

- **Object Snap** - Center snap mode is added to allow users to quickly specify the center when sliding across a circle or an arc. Together with the endpoint and midpoint modes, users can draw a line to the center of a circle or to the midpoint of a polyline segment very easily.
- **Polar Tracking** - ZWCAD Touch can restrict the cursor movement to specified angles. When users are creating or modifying objects, polar tracking can assist designers to ensure higher accuracy.

Increasing Efficiency with Various Annotation Systems

- **Dimension** - Annotation has been made more intuitive by offering three kinds of tools to make linear, radius and angle dimensions, allowing users to efficiently measure distances and angles.
- **SmartVoice** - Fully compatible with ZWCAD+, users can save vocal messages using mobile devices before modifying with PC workstations.
- **Instant Image Insertion** - Photos can be inserted into the drawings for reference, from their album or new photos, making approval workflow more efficient and comparable.

CIMdata PLM Industry Summary

Simplifying Collaboration with Easy Drawing Output

ZWCAD Touch provides quick drawing output and sharing tools similar to the plot feature in ZWCAD+. Specific areas of the current drawing can be saved as JPG files in smart phones and designers can even share them by email.

 [Click here to return to Contents](#)