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## CIMdata News

### ***CIMdata Publishes “3D Geometric Search”***

13 March 2013

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces a new paper investigating the emerging technology of 3D geometric search.

Many new products are designed using the 3D models of existing products as a starting point. The emerging technology of 3D geometric search fits into a company’s process best when the designer needs more than a text search to find a needed model. By quickly creating a 3D shape that embodies the most important aspects of the original model or models they seek, designers can perform a 3D geometric shape search and discover existing released models in the company’s repository. More importantly, they can sometimes find associated simulation and manufacturing data for those models that closely match their search criteria. CIMdata has looked at the current product offerings for 3D geometric search and identified those aspects of a solution that industrial companies are advised to consider.

“3D Geometric Search” is part of the research performed for CIMdata’s Social Product Development & Collaboration Knowledge Council. The Social Product Development & Collaboration Knowledge Council (SPD&C Council) represents the authoritative industry source for the architecture and implementation of social-driven and traditional digital product modeling and design collaboration technologies, and for their reconciliation in product engineering and manufacturing process planning. Numerous organizations, many of them among the world’s largest manufacturing companies, and an

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extensive range of commercial solution providers, collaborate with us as equal partners to define an evolving social engineering framework for PLM.

Industrial companies, solution providers, and individuals can participate in the SPD&C Knowledge Council by contacting CIMdata.

“3D Geometric Search” is delivered directly to SPD&C Council participants.

## About CIMdata

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

CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia Pacific. To learn more about CIMdata’s services, visit our website at [www.CIMdata.com](http://www.CIMdata.com), follow us on Twitter: <http://twitter.com/CIMdataPLMNews>, or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA, Tel: +1 734.668.9922. Fax: +1 734.668.1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands, Tel: +31 (0) 495.533.666.

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## ***Proactively Managing Product Cost with Agile PCM: a CIMdata Commentary***

12 March 2013

### *Key takeaways:*

- *Shorter product lifecycles require getting product design and cost management right the first time to ensure that each product achieves both its target cost, planned margin and exposes supply risk while there is still time to fix it*
- *Product Cost modeling using separate solutions in Excel, ERP, SRM or even siloed within PLM lack traceability and support of key integrated sourcing processes and often reduce model accuracy resulting in untapped product cost savings*
- *The most effective product cost management lies at the intersection of PLM, SRM, and ERP and leverages data and processes from each of these enterprise systems*

## **Introduction**

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Controlling product cost early in a product lifecycle is a critical aspect of business success. If products lack an appropriate profit margin, the products will ultimately fail and the company could suffer in business and financial performance. In addition, speed is of the essence—companies have to get their products released and launched to market at a faster pace to beat the competition and capture market share. This rapid turnover forces products to be developed, sold, and retired in ever-shorter cycles. As an example, the lifespan of a product like a cell phone is now measured in months—if a company is late to market they risk losing customers and having an unprofitable product.

In today's world, it is rare to introduce a new product category. Most products fit into an existing market driven slot that has well defined segments based on many attributes including features, quality, delivery, and of course, cost. Complete product cost is not simple, it consists of price and supply risk details such as delivery, and quality and more often than not requires input from external sources of supply or manufacture. When costing is done well, market share can be captured while margin and return on investment targets are met. In order to control this process successfully, accurate volume and time based cost models which expose and minimize supply risks are required. The supply chain needs to be selected so there are no shortages or supply chain surprises at launch. With increasingly narrow windows of opportunity there is no longer time to “fix it” after launch.

## **Cost Management Issues**

Historically companies were vertically integrated to control cost and efficiently manage communication and logistics. Over the last few decades, improvements in technology have enabled companies to decentralize. Decentralization of manufacturing including sourcing responsibilities and even in some cases design, has allowed companies to be more flexible and to focus on their core competencies which range from component production through sub assembly creation such as printed circuit boards or to finished products like cell phones. This flexibility allows capital costs to be spread over the supply chain, making development and production scaling easier, and improving product quality because component and sub-assembly manufacturers are also focused on optimizing what they do best. Also today's market provides access to both local and global suppliers—facilitating competition, which results in lower total product costs. The end product producer reduces overhead and complexity by selecting the best suppliers and managing them via contract rather than investing in a large, deep, inflexible organization. The downside of this structure is that it is complex to manage, is communication intensive, and requires robust sourcing, collaborative product costing and analytics to ensure products achieve both product cost and margin objectives.

Currently there are a limited number of tools that support the complexity of managing both the product design and collaborative product costing across a supply chain. Product Lifecycle Management (PLM) manages the product definition, but out of the box, most PLM solutions support only simple cost rollups or span only a subset of complex cost analysis models. Through ERP integration, PLM can obtain current cost information, but the question is “which cost?” How current is the cost? Which cost is used as the basis of the product cost estimation? Sample pricing, engineer estimated pricing, low volume pricing, production volume pricing, geography dependent pricing? All scenarios can be valid but it is increasingly difficult to roll up product costs and analyze the details depending on what question is being asked. ERP has cost information and future estimations for existing production items, but, in the case of an outsourced assembly, the price is often captured only at the assembly level, and component

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cost detail may not be available or current. Supplier Relationship Management (SRM) has similar issues to ERP in that data is based on historical purchases (accounts payable data) or a limited window of current production volumes,

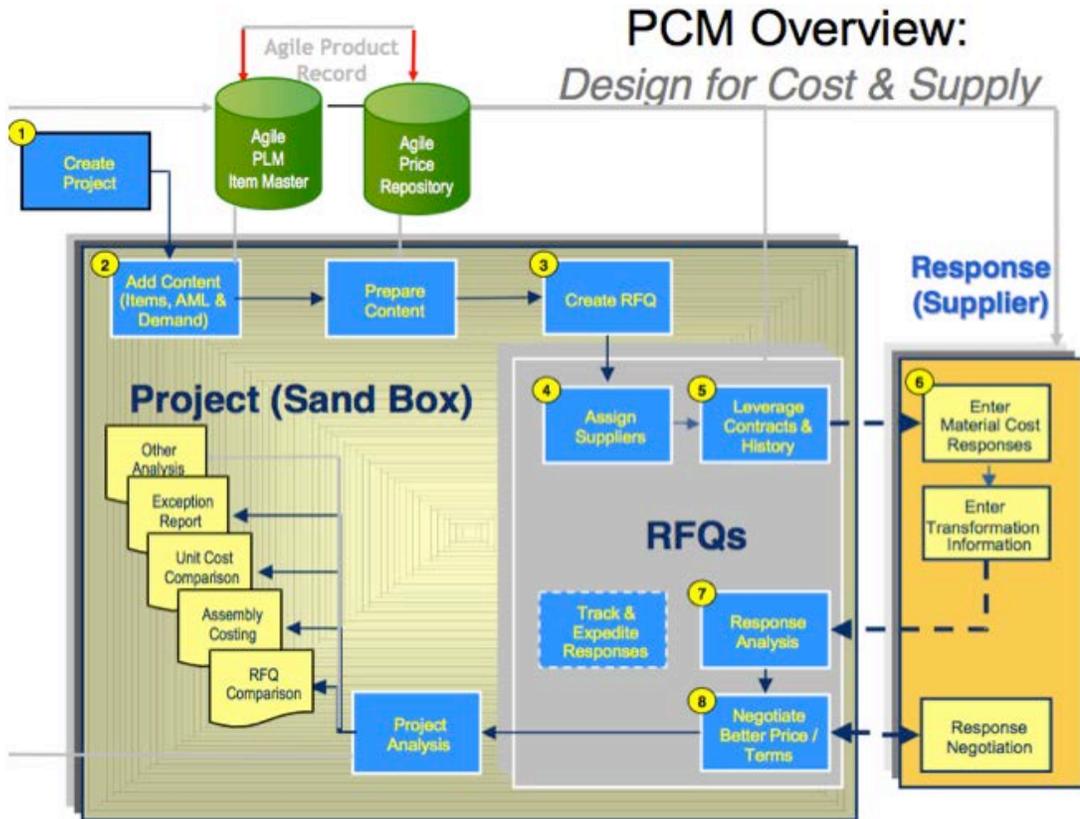
Within today's fast paced environment, global manufacturing, sourcing, cost and supply risk management need to be locked down before the product is released for production. This is challenging when the product design or portions of the product design are new with no data to base the cost on and when there are multiple sourcing options available. Typically engineers use Excel to define and manage a product's cost. A baseline BOM, usually in Excel, from an existing product may be used, or a new one created from scratch. Costs are downloaded from ERP for existing components and cost estimates for new items are manually input. The disadvantages of this work strategy include data sharing difficulties and ensuring that the spreadsheet is up to date with all part costs and current to the 'latest' revision of the product design. More than likely, the BOM is changing rapidly, and items as well as their quantities can vary dramatically across revisions, further impacting the product cost. As the BOM evolves, it is easy for it to get out of synch between engineering, procurement, suppliers, and manufacturing partners. This results in wasted time, cycles and confusion impacting cost and possibly affecting the launch and delivery of products.

Manufacturers require a costing solution that addresses these issues. They require the ability to assemble available cost details associated to the latest product revision and quickly obtain missing cost data from external sources. As early as possible in the development cycle, users require the ability to analyze different BOM constructs, determine alternate sourcing or pricing strategies, and model different production volume scenarios, all of which can be easily refreshed to adjust for changing market conditions, e.g., a change in material costs.

## **Oracle's Agile Product Cost Management**

Oracle's Agile Product Lifecycle Management suite has included Agile Product Cost Management (PCM) since 1998, and the solution is now in its fourth generation. It can operate as a standalone solution or be integrated with other Oracle or third party enterprise solutions including PLM and ERP. Agile Product Cost Management is exceptional when compared to SRM as it is based on the product. PCM leverages BOMs managed within PLM to obtain the product structure and then associates cost details to each child item throughout the entire multi-tier product structure. The BOM can be manipulated within PCM allowing faster generation of "what ifs." The data model within the PCM pricing repository allows cost details to be captured and then product costing to be modeled and analyzed over many variables including source specific data (e.g. design estimation, customer, supplier, manufacturing partner), different time and / or volume based scenarios, and various ship to or from locations utilizing different currencies.

When new or updated items are required the Request for Quotation (RFQ) capabilities within PCM enables appropriate suppliers to be contacted to provide new or updated cost quotations. Sourcing teams can track progress of the negotiations, leverage the suppliers' input and responses to analyze and award the best suppliers, and share the updated information internally or externally as required.



**Figure 1—Oracle Agile Product Cost Management Process Architecture**

The value of Oracle’s Agile Product Cost Management is that it enables better product cost related and part risk aversion decisions to be made faster. The data model is rich enough to support multiple time-based (weeks, months, quarters, years, overlapping) and quantity based scenarios. Sourcing teams can gather complete lifecycle time and volume-based costs for existing and new components simultaneously from both suppliers and manufacturing partners, then quickly analyze the data rolled up through the entire product structure. Live connections to PLM, ERP and other databases ensure that product related information, including the BOM, can be refreshed as often as needed. This enables authorized users to perform sophisticated analyses to define and assess projected costs for many launch and production scenarios. By doing this early in the development cycle, product designers are able to ensure their designs are in alignment to cost targets, avert potential supply risk, and greatly reduce risk of creating products that will not meet their profit objectives.

## A Customer View

An Oracle customer develops and sells secure point of sale electronic payment systems. They are a long time customer using Oracle Manufacturing and Agile PLM including PCM. Their manufacturing is predominantly outsourced creating additional challenges in keeping product costs competitive and part costs in line with market pricing. According to this customer, Agile PCM enables them to be confident that their contract manufacturers are producing products at the lowest possible cost. They estimate that PCM has helped save in excess of \$10 million in product costs. Agile PCM takes the sales forecast from Oracle Manufacturing, explodes it across all of their BOMs to aggregate part demand and allows users

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to share these details across hundreds of suppliers. This allows them to capture, benchmark, and quickly analyze thousands of suppliers' part cost details through the product hierarchy to identify the best suppliers. After pricing is published to the Agile product record, this information is systematically communicated to Oracle Manufacturing and the ERP system to ensure that Purchase Orders are executed using the most current cost information. The company continues to enhance and expand their use of Agile PCM to better manage their supply chain associated costs and meet their product profit margin goals.

## Concluding Remarks

Managing product cost is a key function for all companies. When a new product is developed or an existing product changed, developers need to proactively estimate the projected cost of the product (and its development) and then manage cost factors to help ensure product profitability. Companies need to be able to build a cost model associated to the product model that can perform accurate "what ifs" as early as possible in product development and then manage the cost of both internal development and parts and components obtained through their supply chain. Integrating and leveraging existing data from PLM, ERP, SRM and other enterprise systems and keeping it current while performing cost analyses is critical to achieving target profit margins and ROI.

Agile Product Cost Management is a solution that links cost with product BOMs and supports performing extensive cost analyses. Companies that need robust product costing solutions should evaluate Oracle's Agile PCM.

## About CIMdata

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

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## Acquisitions

### ***Bentley Acquires topoGRAPH***

14 March 2013

Bentley Systems, Incorporated announced that it has acquired the business of Brazil-based Char\*Pointer Tecnologia, including its *topoGRAPH* software for high-precision surveying, earthworks, and road and railway design. With this acquisition, Bentley extends its ability to address the tremendous opportunities

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in Brazil for creating the modern transportation system that this country's rapidly expanding cities and industries demand. Last year, Brazil's government announced measures to attract up to BRL 133 billion in private investment for road and rail projects – including upgrades for up to 10,000 kilometers of its rail network – and a BRL 54.2 billion public-private funding drive to modernize the country's sea ports.

*topoGRAPH* is a perfect complement to Bentley's civil engineering and transportation software for all phases of the infrastructure lifecycle – from data acquisition, surveying, planning, analysis, and conceptual design to modeling, construction, operations, and maintenance. Working smarter, together, Bentley and its new and talented colleagues from the Char\*Pointer team can better provide the leading-edge technology needed to help engineers and contractors deliver the improved roads, bridges, and railways that Brazil requires.

Bentley COO Malcolm Walter said, “We are extremely impressed with the engineering talent, energy, and entrepreneurial zeal in Brazil, which the Char\*Pointer team, led by Paulo Roncada, exemplifies. Our goal is to leverage Bentley's 3D information modeling software and engineering collaboration solutions, along with our new colleagues' expertise in surveying software and knowledge of local requirements, in addressing Brazil's enormous need for a safer and more efficient transportation system to support its burgeoning economy.”

Walter continued, “The challenges Brazil faces in upgrading its roads are significant given that currently less than 20 percent of them are paved. And these challenges become all the more pressing with the 2014 FIFA World Cup Brazil and 2016 Summer Olympic Games in Rio just around the corner – which will attract millions of additional visitors to Brazil and its heavily congested roadway system. But Brazil can and, I believe, will resolve these challenges faster and more cost-effectively by leapfrogging other countries in using 3D information modeling to deliver higher-performing, more-resilient transportation infrastructure.”

Paulo Roncada, founder and former principal of Char\*Pointer Tecnologia, and now Bentley director of simulation products, said, “My colleagues at Char\*Pointer and I are excited about joining the Bentley team. Bentley's breadth and depth of offerings, coupled with its global reach, will provide *topoGRAPH* users a rich array of complementary software and services for sustaining transportation and other infrastructure to fill out their tool sets, enhance the efficiencies of their workflows, and increase the quality of their deliverables.”

Alfredo Castrejón, Bentley vice president, Latin America, added, “We are pleased to welcome the Char\*Pointer team to Bentley. We look forward to working with them in continuing to advance the innovative capabilities of the *topoGRAPH* products.”

He continued, “Going beyond organic growth in Brazil has always been a key part of Bentley's vision, as it further enhances our ability to influence the creation and operation of infrastructure across the region, leading to better-performing, more sustainable roads, bridges, railways, plants, and more.”

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Char\*Pointer Tecnologia developed the *topoGRAPH* software to help civil engineers and other infrastructure professionals process survey data generated by total station instruments, laser scanning, and GPS devices. The software provides powerful tools for its users to create drawings and plans, analyze terrain models, calculate earthwork volumes, and to design roads and railways.

For additional information about Bentley's new *topoGRAPH* product line, click [here](#).

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## ***Cadence to Acquire Tensilica***

11 March 2013

### **HIGHLIGHTS:**

- Tensilica® dataplane processing units (DPUs) combined with Cadence® Design IP will deliver more optimized IP solutions for mobile wireless, network infrastructure, auto infotainment and home applications.
- Tensilica IP complements industry-standard processor architectures, providing application-optimized subsystems to increase differentiation and get to market faster.
- More than 200 licensees, including system OEMs and seven of the top 10 semiconductor companies, have shipped over 2 billion Tensilica IP cores.

Cadence Design Systems, Inc. announced that it has entered into a definitive agreement to acquire Tensilica, Inc., a leader in dataplane processing IP, for approximately \$380 million in cash. Tensilica had approximately \$30 million of cash as of December 31, 2012.

Further expanding Cadence's IP portfolio, Tensilica provides configurable dataplane processing units that are optimized for embedded data and signal processing targeted at mobile wireless, network infrastructure, auto infotainment and home applications.

“With Tensilica, we will be able to provide designers with a more complete SoC solution that will speed the development of innovative and differentiated products, while reducing time to market,” said Lip-Bu Tan, president and chief executive officer of Cadence. “We look forward to working with Tensilica's dedicated employees as one team to bring even more value to our customers.”

Jack Guedj, president and chief executive officer of Tensilica stated, “Joining Cadence will provide a broader platform to expedite our product development strategy and customer engagement. We will have the ability to accelerate IP subsystem development and integration while providing a more extensive support network to our customers.”

Tensilica customized DPUs augment traditional custom hardware design, offering both time-to-market and programmability advantages and can be optimized to achieve optimal power, performance and area efficiency. Tensilica IP provides application-optimized subsystems that work synergistically with industry-standard CPU architectures.

“The acquisition of Tensilica by Cadence will be a positive move for the industry,” said Simon Segars, president of ARM Holdings plc. “We look forward to expanding our ongoing collaboration with Cadence to enable our customers to bring great products to market.”

Cadence intends to finance the transaction with available cash and an existing revolving credit facility. The transaction is expected to close in the second quarter of fiscal 2013, subject to customary closing conditions including regulatory approvals. Cadence expects the transaction to be slightly dilutive to its non-GAAP earnings per share in fiscal 2013 due to the impact of merger-related accounting and accretive to its non-GAAP earnings per share in fiscal 2014. The impact on GAAP earnings per share will be available after valuation and the completion of purchase accounting. - See more at: [http://www.cadence.com/cadence/newsroom/press\\_releases/pages/pr.aspx?xml=031113\\_Tensilica#sthash.DTzFGih5.dpuf](http://www.cadence.com/cadence/newsroom/press_releases/pages/pr.aspx?xml=031113_Tensilica#sthash.DTzFGih5.dpuf)

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## Company News

### ***Altair Extends Commitment to Siemens; Expands Use of Parasolid Designer throughout its Product Range***

12 March 2013

[Siemens PLM Software](#) has significantly expanded its long-standing software license agreement with Altair Engineering, Inc. (Altair). The expanded agreement enables Altair to deploy Parasolid Designer software throughout its product offerings. Parasolid Designer provides Altair advanced modeling capability to seamlessly integrate with its existing core technology and to enable accelerated product development.

Altair is expanding the use of [Parasolid®](#) software to include Parasolid Designer following an extensive strategic review of how to align its solidThinking and HyperWorks product suites. Altair sought a solution to augment its internally-developed core technology, which is used in HyperWorks, and concurrently align to its product suites.

“During the extensive evaluation process, Parasolid Designer proved to be the most technically advanced solution to enable accelerated development across Altair’s entire product range and to align with our established technology; this was crucial for our business success,” said Massimo Fariello, senior VP, software technology alliances and strategies, Altair. “The technical advantages of Parasolid, combined with the trust established in Siemens over the past several years, gave us confidence in our decision to select this solution. We look forward to delivering enhancements in future releases leveraging the advanced modeling functionality in Parasolid.”

“Siemens PLM Software’s position as the leading provider of PLM component software is based on providing superior technology and developing long-term mutually beneficial relationships with our

## CIMdata PLM Industry Summary

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licensees,” said Paul Sicking, senior vice president, Chief Technology Office, Siemens PLM Software. “We are delighted that a company of Altair’s caliber has selected Parasolid to integrate its suite of products. This decision further validates both the direction of our technology and our open strategy.”

Altair first became a Parasolid licensee in 2008, through the acquisition of solidThinking conceptual design software which uses the full breath of Parasolid Designer functionality. In 2011, Altair integrated Parasolid Communicator into its HyperWorks suite to enable translator-free interoperability with the extensive list of PLM products based on Parasolid.

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### ***CADsoft Consulting Named Americas Autodesk Partner of the Year***

13 March 2013

[CADsoft Consulting Inc.](#), today announced being named Americas Autodesk Partner of the Year for FY13, a top honor in the prestigious [Autodesk Platinum Club](#) awards program. The award was presented at Autodesk's One Team Conference, an annual sales and leadership event held this month in Las Vegas, NV, that brings together Autodesk employees and partners from around the world. The award recognizes CADsoft Consulting for its outstanding achievements in delivering world-class service and technical expertise to their customers throughout fiscal year 2013.

“We are honored for this recognition,” said Tim Duncan, managing principal of CADsoft Consulting. “It demonstrates the hard work and commitment by our entire team. The design industry has many choices, many strategies, processes and technologies requiring a strong team that can assist our clients and help them decide on the best solutions and directions to explore. I am very proud of them all.”

“We also want to thank all our customers who invested in CADsoft to help them drive improved design and business processes,” said Lisa Duncan, principal of CADsoft Consulting. “The partnerships we developed with our customers continue to express our long term investment in their success.”

Autodesk Platinum Club recognizes channel partners from around the world who have excelled in categories such as sales, growth and other key measures of success over the past year. The Platinum Club this year honored channel partners who were the leading commercial, education, government or distribution partners in their regions.

“Autodesk is proud to announce our top partner and is grateful to CADsoft Consulting for their exceptional performance,” said Bill Griffin, vice president of Worldwide Channel Sales, Autodesk. “CADsoft has demonstrated world-class service, consulting, and technical expertise to their customers. CADsoft has made a commitment to understand their customer's business and technical needs and their trusted partnership with both their customers and Autodesk allowed them to help customers become more efficient, competitive and innovative as a result of their stellar efforts.”

# CIMdata PLM Industry Summary

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Autodesk's global channel partner network includes more than 2,000, all of whom support customers across a number of industries, such as architecture, engineering and construction; manufacturing; automotive; utilities and government; telecommunications; games; television and film.

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## ***Delcam Launches New Joint Venture in Mexico during Ministerial Visit***

11 March 2013

Delcam has formed a new joint venture in Mexico, Delcam Mexico, to promote faster growth in sales of the company's CAD/CAM software in the country. The launch of Delcam Mexico coincided with a visit to Mexico City by Delcam's Commercial Director, Bart Simpson, as part of a UK trade mission to Mexico and Colombia led by UK Trade and Investment Minister, Lord Green.

Delcam has made an investment of over US\$500,000 in the joint venture, in partnership with Salvador Horta G., who has been appointed Managing Director of Delcam Mexico, and Juan Gonzalez Luna M., the owner of TCM, Delcam's long-standing reseller in Mexico. TCM will continue to sell Delcam software as a sub-dealer of Delcam Mexico, as well as developing its businesses in complementary hardware and in machining services.

Delcam Mexico will be based in Leon Guanajuato, at the office previously used by TCM for its Delcam business, with a smaller office in Monterrey. In addition to Salvador Horta, most of the TCM staff focussed on Delcam software will transfer to the new joint venture. Plans are already under way to recruit extra staff, to open more offices and to appoint additional sub-dealers.

"Delcam enjoyed its most successful year so far in Mexico during 2012, with sales increasing by over 50%," commented Pedro Leon, Delcam's Business Development Manager for Latin America. "Even so, we felt that we needed to strengthen our presence in the country in order to take full advantage of the many opportunities for our software."

"I am personally very excited about this further step forward made by Delcam," added Mr. Leon. "I am convinced Mexico is today the market in Latin America with the highest potential for growth for our business. Inward investment into the country remains high in our key markets of automotive, where Nissan, Honda and VW are all expanding, and aerospace, with major investments by General Electric and Bombardier."

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## ***Infor ION Becomes Infor's Top-Selling and Fastest Growing Product***

11 March 2013

# CIMdata PLM Industry Summary

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[Infor](#) announced strong momentum for Infor [ION](#) technology. More than 900 organizations in 59 countries have purchased ION, making it the top-selling and fastest-growing product in Infor's portfolio of industry-specialized software products.

An innovative lightweight middleware, Infor ION is a flexible and powerful integration framework that seamlessly connects operational, front office and back office systems across the entire business using industry standard XML document exchange. ION enables a modern, consumer-inspired user experience that incorporates social, mobile, and cloud computing in existing environments, unlocking hidden information and analytics when and where it is needed.

To better manage the strong growth of this platform, Infor has hired Steve Moroski as senior vice president of [Platform Technologies](#). Moroski, an industry veteran with more than 20 years of experience, joins Infor from Oracle Corp., where he most recently served as group vice president for engineered systems.

“The strong momentum Infor is experiencing for ION and other platform technologies is a testament to the benefits of simple, lightweight middleware built on open standards,” said Stephan Scholl, president of Infor. “With a proven track-record that demonstrates a unique understanding of platform technologies and their application to drive business process improvement, Steve Moroski is the ideal person to lead this high-growth area for Infor.”

Among the companies that have purchased Infor ION to connect multiple Infor systems are [A.Schulman](#), [BAE Systems](#), [Brewster Dairy](#), [Ferrari](#), [Hi-Tech Mouldings](#), [Pan Emirates](#), Preferred Sands, and [Pride Industries](#).

“One of our biggest challenges was connecting our processes to deliver information to make informed decisions with correct and up-to-date information,” said Luke Rains, system development director, Preferred Sands. “Integration is a key part of our system functionality and using ION to integrate our processes and Mongoose to build scalable applications quickly and securely gives us the ability to make changes quickly and know that our processes are working to give us information when we need it.”

In addition, ION can be used to integrate Infor applications with non-Infor applications and was instrumental in the development of Inforce Everywhere and Inforce Marketing.

“If you don't have a tool like ION in your organization, you're limiting what you can buy and the cost you'll spend to develop interfaces between systems,” said Kendal Phipps, senior systems analyst, Pride Industries. “Having the right tools in the toolbox is essential for our business to grow and to deal with issues. We don't want to turn away a \$20 million a year contract because we can't handle the 'X' amount of documents, or that we can't interface to the customer's system. So this gives us that confidence to say, ‘Yeah, we can do it!’”

# CIMdata PLM Industry Summary

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Brewster Dairy, a leading manufacturer of quality cheese, using ION to integrate its Infor ERP and asset management systems in 2011, has received widespread industry recognition for advanced use of technology to improve performance. In addition to being selected “[Customer of the Year](#)” at Inforum 2012, Brewster Dairy was [recognized by Ventana Research](#) for IT performance management, and was a finalist in the Saugatuck BEACON awards. A full profile on how Brewster Dairy uses Infor ION is available [here](#).

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## ***Korean Student Wins First Delcam International CAM Competition***

15 March 2013

Jang-U Shim, from Chonbuk Mechanical & Technical High School in Korea, was the winner of Delcam’s first international student CAM competition, which was held at the company’s Birmingham headquarters earlier this year. The competition was sponsored by cutting-tool supplier, Seco, which supplied the tooling for the student’s machining projects.

In addition to Korea, the finalists came from China, Taiwan Russia and the Ukraine. Each of the contestants had previously won the CAM competition in their region to qualify for the final in Birmingham.

For the final competition, each student was given an IGES file of a mould cavity from which they had to produce a machining program using Delcam’s PowerMILL software for high-speed and five-axis machining. The various NC programs were then run on one of the high-speed machining centres within Delcam’s Advanced Manufacturing Facility using a specified range of tooling supplied by Seco. Each of the students was able to produce toolpaths that could be machined successfully, with the results being assessed against criteria including quality of toolpaths, machining time and surface finish.

After announcing the winner and presenting certificates to all the contestants, Delcam’s Commercial Director, Bart Simpson, said "Delcam works with universities around the world, helping to train the next generation of engineers for our growing customer base. We were very pleased by the standard reached by all the students, although that was perhaps to be expected after the finalists had already won competitions in their respective countries."

"We were very appreciative of the support given by Seco for our first international competition," added Mr. Simpson. "We hope to work with the company on a second event next year, where we plan to attract finalists from an increased number of countries."

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## ***Mcor Appoints Autodesk Gold Partner, MESA, Inc., as US Reselling Partner***

13 March 2013

# CIMdata PLM Industry Summary

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[Mcor Technologies Ltd](#), manufacturer of the only line of desktop paper-based 3D printers, announced that it has added Autodesk Gold Partner, MESA, Inc., to its rapidly expanding list of worldwide resellers and service providers. MESA provides deep expertise in delivering complete 3D software, consulting, services and now Mcor 3D printing and rapid prototyping solutions to the US MCAD market.

Founded in 1995 and located in Pittsburgh, Pennsylvania, [MESA](#) will sell Mcor's line of [IRIS](#) and [Matrix 300+](#) 3D printers and provide 3D printing services using Mcor 3D printers in the Pennsylvania, eastern Ohio and northern W. Virginia region. In addition to serving the MCAD market, MESA plans to leverage Mcor's low-cost, full-color paper 3D printing to expand into the architectural, GIS and fine arts markets.

"We are ecstatic to partner with Mcor," said Jeffrey Chadwick, Manager, Rapid Prototyping and Marketing at MESA, Inc. "Our mission is to help our clients maximize their return on investment in Autodesk software solutions. To that end, we continually seek new opportunities to better serve our clients and providing Mcor 3D printing solutions is a natural extension of our offering and will do just that."

"We are delighted to add MESA as our newest channel partner," said Dr. Conor MacCormack, Co-founder and CEO of Mcor Technologies. "MESA will help expand Mcor 3D printing into the Autodesk community and shares Mcor's customer-focused philosophy of building long-term relationships and delivering the highest levels of personalized expertise and service."

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## ***SAP Sponsorship to Provide Free Textbooks that Promote Simpler Software Design***

13 March 2013

[SAP](#) announced a partnership with the [Interaction Design Foundation](#) (IDF), an organization that provides free text books and online education materials created by leading academics and practitioners of software design. The Denmark-based IDF develops much of its content as massively open online courses, known as [MOOCs](#), a trend in education that is gaining momentum. SAP's sponsorship of US\$600,000 will enable IDF to educate more students and professionals in emerging economies, as well as the developed world.

The cost of text books and academic enrollment is rising steadily making education prohibitive. Following the mandate of the United Nations that education is a fundamental human right, IDF fills this niche and empowers people interested in improving user experience and software design. Over 300 major universities globally currently use IDF's text books regularly in classes. Written for technology designers, engineers and computer scientists, the materials from IDF help remove barriers to education and economic empowerment in developing countries. Currently, 20 percent of IDF readers are from developing countries and the number continues to increase.

# CIMdata PLM Industry Summary

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“SAP is committed to simplifying solution development with design thinking, which puts people and their problems at the center of software,” said Sam Yen, global head of Design and User Experience, SAP. “Our relationship with IDF is a meeting of the minds and a natural outgrowth of our work to create an ecosystem that supports a more organic relationship between people and software. Together, we can spread the word and democratize access to the top minds in human-computer user experience.”

As part of the sponsorship, IDF will team with the [SAP University Alliances](#) program to help its members create learning material that promotes simpler, more innovative and efficient product design. Working with more than 1,300 universities worldwide using SAP solutions in the classroom, SAP University Alliances plans to bring IDF content to these institutions. The initiative includes a bicycle tour to major metropolitan areas in Europe, North America, Africa, Asia and the Middle East, where IDF and SAP University Alliances representatives will raise awareness by delivering materials to universities and software design companies.

“IDF is the first organization in the world made by the world’s leading experts in technology design to give away free top-quality books and educational materials on such a large scale,” said Rikke Friis Dam, co-founder and editor-in-chief, IDF. “Teaming up with SAP will extend our work helping to develop IT skills globally and support sustainable economic development.”

For more information, visit the [SAP Newsroom](#).

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## ***transcosmos Becomes The First Service Provider Partner in Japan For Dassault Systemes***

13 March 2013

transcosmos inc. has concluded a service provider partner contract with Dassault Systemes Co., Ltd. From here on transcosmos will be enhancing engineering solution services which mainly focus on areas such as design development operations support and CAD system operations.

Dassault Systemes is a world leader in the areas of 3D design software, 3D digital mock-up and product lifecycle management (PLM) solutions. The various solutions in the 3D EXPERIENCE Platform, which consists of elements such as the 3-CAD "CATIA" and the PLM system "ENOVIA" also provided by the company, are used in a variety of product development operations in a wide range of industrial fields. These include major domestic and foreign automakers and aircraft-related manufacturers, as well as high-tech, shipbuilding and industrial machinery industries. transcosmos has been providing engineering solution services using CAD since 1984, and more recently it has been actively pursuing BPO (Business Process Outsourcing) in this field.

Based on this new service provider partner agreement, transcosmos will be able to achieve a close and strategic partnership with Dassault Systemes. Their aim is to efficiently provide services to meet more

# CIMdata PLM Industry Summary

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client needs by sharing the know-how, global case studies, core technologies and latest knowledge possessed by both companies, and jointly building a more advanced and extensive coverage system which is necessary for proposals and implementation of the 3D EXPERIENCE Platform offered by Dassault Systemes.

transcosmos aims to contribute to the resolution of business challenges in a variety of manufacturing industries, such as responses to drastically changing markets and innovative improvements that add value to consumer products. This will be accomplished through further enhancement of a complete set of engineering IT services ranging from introduction and formulation to the operation and maintenance of engineering information systems and a complete set of services related to design development ranging from design to production, as well as further promoting the globalization of their business.

They have received the following comments from Mr. Seiji Kajiya, the President and CEO of Dassault Systemes. "We are very pleased to be able to welcome transcosmos as our first service provider partner in Japan. We introduced the 3D EXPERIENCE Platform in 2012 and we are now actively developing it. With the conclusion of this agreement, we are expecting more opportunities to have our 3D EXPERIENCE Platform utilized by both domestic and overseas customers."

Service provider partners of Dassault Systemes develop the necessary personnel who possess skills in areas such as expert knowledge and technologies related to the products of Dassault Systemes, and they provide services together with the company's Industry Services Division in order to support effective introduction and utilization of Dassault Systemes products. transcosmos is the first Japanese company to become a service provider partner for Dassault Systemes.

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## ***Top 10 Finalists Announced in Stratasys Extreme Redesign Contest***

14 March 2013

[Stratasys Ltd.](#) announced the finalists for its ninth annual [Extreme Redesign 3D Printing Challenge](#). The global contest encourages students to submit an innovative product design, a redesign of an existing product, or an original work of art or architecture.

As a new incentive this year, college category finalists will have their designs reviewed for a possible licensing agreement and commercialization by a major manufacturer in partnership with online inventor community, [Edison Nation](#), which operates the hit TV show, [Everyday Edisons](#).

The contest includes the categories of middle school and high school engineering, college engineering, and art & architecture. Besides being contenders for scholarship prize money, the top ten finalists in each of the three categories will receive a 3D printed model of their design. A list of the finalists and their school names can be found at: [ER 2013 Finalists](#).

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From the ten finalists in each category, a panel of independent judges from industry will select the winners. This year's judges are Patrick Gannon, RP+M division of Thogus, Todd Grimm, TAGrimm & Associates, and Ian Kovacevich, Enventys. Stratasys will award scholarships in the amount of \$2,500 for first place winners and \$1,000 for second and third place winners. Instructors of the three first-place student winners will receive a tablet PC for use in the classroom.

Designs are awarded based on creativity, usefulness, part integrity and aesthetics. Each submission is required to be a sound mechanical design; be realistic and achievable; and include a clear written description of the design.

This year's contest also features the award category, "Engineering a Difference," in which students compete for a bonus prize. Students whose designs are aimed at solving a great societal challenge will have a chance to win a \$250 gift card.

For video, photos, and descriptions of previous winning designs, visit [Extreme Redesign 3D Printing Challenge](#). For contest rules and regulations, visit [Rules & Regulations](#).

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## ***Universiti Malaysia Pahang Enhances its Academic Programme with AVEVA***

11 March 2013

AVEVA announced today that the Universiti Malaysia Pahang (UMP) has increased its investment in AVEVA PDMS. As part of its course entitled 'AVEVA PDMS Operator Training', students will develop better skills and understanding of design and engineering tasks such as the layout of a plant, clash checking and the compilation of materials for construction. The software will greatly enhance the University's academic programme by providing students with an educational experience that is relevant to the industry and will help them to stand out in a competitive job market.

"AVEVA PDMS was first incorporated into UMP's courses in 2010 and has since been used in various undergraduate research projects, becoming one of the capstone subjects in the Chemical Engineering curriculum," said Dr.-Ing M. Rizza Othman, Lecturer, Department of Chemical Engineering, UMP. "Our programmes are designed to serve the needs of industry, and plant design is a very important and interesting subject. The faculty plans to extend the use of AVEVA PDMS both within and outside the curriculum. Giving students exposure to the right industry tools and supporting them with a strong engineering foundation is UMP's passion."

"With over 45 years of experience in the industry, we have established a market-leading position in plant design and engineering," said Rozita Mohd Nor, Senior Vice President - SEA and Australasia, AVEVA. "By incorporating AVEVA PDMS, the world's leading 3D design software, into its academic programme UMP is contributing towards the professional development of highly skilled engineers within Malaysia. It gives us great satisfaction to support this programme and we would like to thank

# CIMdata PLM Industry Summary

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UMP for making AVEVA software a key part of its faculty's resources.”

AVEVA PDMS has previously been used at UMP on a student project assignment to design a 3D model of a plant from a 2D piping and instrumentation diagram (P&ID) after completing five days of training with AVEVA's professional trainers. This proved a very successful exercise and students were able to use their projects as examples when applying for jobs following graduation.

Universiti Malaysia Pahang was established on February 16, 2002 and was formerly known as Kolej Universiti Kejuruteraan dan Teknologi Malaysia (KUKTEM) specialising in providing high-quality education and research in engineering and technology. The training facility at the Faculty of Chemical and Natural Resources Engineering (FKKSA) houses the latest hardware technology for computer-aided design (CAD) related projects and assignments.

The AVEVA Academic Initiative benefits educational institutions, their students, employers, and the global engineering economy. AVEVA's educational partners range from local vocational training centres to the world's most prestigious postgraduate universities. Common to all is a dedication to developing engineering skills that can be applied directly in the plant or maritime industries. To learn more visit [www.aveva.com/academic](http://www.aveva.com/academic).

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## Events News

### ***Aras to Present at Design for Manufacturing Summit – March 21st, Brooklyn New York***

13 March 2013

Aras® announced that the company will present on a panel at the Design for Manufacturing Summit (DFM Summit) in Brooklyn New York on Thursday, March 21, 2013.

The Design for Manufacturing Summit brings together designers, manufacturers and entrepreneurs to discuss the opportunities in the digital manufacturing revolution. DFM Summit topics combine CAD/CAM, PLM, DFM/DFx, lean manufacturing, 3D printing, new materials, open source and the fast growing maker scene. Marc Lind, Aras SVP of Global Marketing, will present and participate in the panel discussion Product Development and PLM. For more information and registration please visit <http://dfmsummit.com/>

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### ***Astronaut Gregory Chamitoff Keynote to Kick-off MSC's 50th Anniversary User Conference Series***

12 March 2013

# CIMdata PLM Industry Summary

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[MSC Software Corporation](#) announced that NASA astronaut and engineer [Dr. Gregory Chamitoff](#) will deliver the keynote speech at the company's 2013 Americas user conference and 50th anniversary celebration.

The conference, "A New Era Begins," will be held on May 7-8 in Irvine, California. It kicks off a worldwide series of user group conferences in 20 countries through the spring and summer.

Chamitoff has been with NASA since 1995 and contributed to space projects before that as a graduate student at MIT. He has logged more than 198 days in space on NASA missions.

While working on his doctoral degree, Chamitoff performed stability analysis for the Hubble Space Telescope deployment, designed flight control upgrades for the Space Shuttle and developed attitude control system software for the Space Station. After joining NASA, Chamitoff led the development of software for spacecraft attitude control monitoring, prediction, analysis and maneuvering.

In 2008, Chamitoff served as the flight engineer and science officer for a six-month mission aboard the International Space Station. In 2011, Chamitoff served as a mission specialist on the last flight of Space Shuttle Endeavour and also performed the final spacewalk of the Space Shuttle program.

NASA helped launch MSC's 50 years of success in the software industry. The company was founded in 1963. In 1965, MSC was one of the primary developers of NASTRAN simulation software for the Apollo space program. MSC then developed the first commercial version of NASTRAN ([MSC Nastran](#)), which established it as a leading simulation and analysis software company.

"It's a particular honor to have Dr. Chamitoff as our keynote speaker because of NASA's place in MSC Software's history," said MSC President and CEO Dominic Gallelo. In addition to Chamitoff's keynote, "A New Era Begins" will include an opening-day address from Gallelo recounting the company's 50-year history of innovation and describing its vision for the future. The general session will include a video of MSC's history, from the NASA era to the present, and the scientific accomplishments its products have supported through the years.

The Americas user conference will be held at the Hyatt Regency in Irvine, California. For more information, please visit <http://pages.mscsoftware.com/50Years-HomeUSA.html>. The conference agenda includes deep technical expertise from speakers presenting on behalf of BMW, Boeing, Baker Hughes, Caterpillar, China Aerospace, Ford, Graham Packaging, Jet Propulsion Laboratory, NASA, Scripps and many more. To view a full listing of speakers and abstracts to be presented at the Americas Conference, visit <http://pages.mscsoftware.com/50Years-AbstractsUSA.html>

International user group events will be held in the EMEA and Asia-Pacific regions in May, June and September. EMEA events will be held in: Sweden May 13-14; Germany May 14-15; UK May 15-16; France May 16-17; Russia May 21-22; Italy May 22-23; and Turkey May 27. Asia-Pacific events will be held in: Japan, May 30; Korea, June 5; China, June 6-7; and India, Sept. 5-6. For more information on

international events, please visit <http://www.mscsoftware.com/50years/>.

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## **AVEVA Supports Aberdeen's Offshore Oil & Gas Industry**

13 March 2013

AVEVA today announced its attendance at two key events for the Aberdeen-based North Sea oil & gas industry. *IMechE: Ageing Offshore Installations and KP4* and *Improving offshore facilities management, operations and maintenance* will take place on 19 and 20 March respectively. AVEVA will showcase solutions for both EPCs (Engineering, Procurement and Construction contractors) and Owner Operators that enable rapid and efficient plant revamp and modification projects, demonstrating how these can reduce project execution time and cost, improving safety, and maximise data quality and integrity.

'A key challenge is to maintain the integrity of a plant's digital information asset throughout its entire lifecycle, particularly through the disruption of a major modification or revamp', said Fredy Ktourza, Senior Vice-President – West EMEA, AVEVA. 'Whether the work is carried out by an EPC or the OO itself, the ultimate goal must be a plant that continues to operate safely, supported by an accurate as-built digital asset and with a reliable single source of up to date and accessible information.

'We will be showcasing our brand-new plant design product, AVEVA Everything3D™, to demonstrate the power of integrating laser scanning with 3D design. This enables the accurate and detailed capture of the as-built environment both before and after a revamp/modification. In addition, we will also exhibit our information management solutions that enable the consolidation and sharing of all project and asset information, maintaining its quality and integrity from design, through handover and for the asset's entire operating life.'

*IMechE: Ageing Offshore Installations and KP4* takes place on 19 March 2013 at the Aberdeen Exhibition and Conference Centre. *Improving offshore facilities management, operations and maintenance* takes place 20 March 2013 at the Hilton Aberdeen Treetops – Aberdeen.

At *Improving offshore facilities management, operations and maintenance*, AVEVA will present 'Access to and unlocking the value of engineering information in operations'. Most plants today use many different applications which lock data away in disconnected 'silos', making it difficult to ensure the consistency of asset information. The presentation will describe the simple principles that unlock the information silos, enabling both Owner Operators and their EPC contractors to perform effectively.

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## *Delcam to Show Orthotics CAD/CAM Software and Scanner at BAPO Conference*

15 March 2013

Delcam will demonstrate the latest versions of its software for the design and manufacture of custom orthotic insoles, plus its iQube foot scanner for the collection of patient data, at the British Association of Prosthetists and Orthotists Annual Conference to be held in Telford from 22nd to 24th March. Delcam's UK Sales Manager will present the company's latest developments in a paper at the Conference on Friday 22nd.

Delcam's main focus at BAPO will be on the 'real-time design' version of its OrthoModel design software for accommodative orthotics to show how it can benefit healthcare professionals treating patients with conditions affecting the lower limbs such as diabetes.

Custom orthotic insoles provide proactive care of the feet of diabetic patients by giving pressure relief across the foot. This can improve patient outcomes and limit treatment costs by reducing the risk of ulceration and eventual amputation. With such clear medical and economic arguments in their favour, the manufacture of insoles for diabetic patients is seeing a large increase in demand as the spread of the disease is reaching epidemic levels. The volumes now required can only be met through the application of modern CAD/CAM technology in place of the traditional process using plaster casting.

The new version OrthoMODEL2013 is even easier to use than the previous software. The design of the orthotic can be created automatically from the prescription as it is input. Sculpting, cuts and additions, such as depressions to provide relief for ulcerated regions, can be added at any stage. The complete design can be visualized and modified in real time so that the practitioner or laboratory can be sure they are happy with the shape being generated before it is sent for manufacturing.

The latest version of the iQube scanner is accurate to less than 100 microns and very quick, with a typical scan taking between three and five seconds. It is supplied with an adaptor bracket so that it can be used for weight-bearing, semi-weight-bearing and weight-off measurements, with a suitable stand, such as a tripod or many standard VESA television mounts.

As with all of Delcam's products for the orthotics industry, the software and scanner have been developed in association with Delcam customers from laboratories, podiatrists and orthotists around the world, coupled with the company's knowledge of footwear design and manufacture gained from its relationships with leading brands such as Nike and Reebok.

Both the new software and the new scanner are fully integrated into Delcam's Order Manager workflow management system to provide both practitioners and manufacturing laboratories with a simple method for tracking the progress of orders from patient consultation to delivered orthotic.

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## ***Delcam to Sponsor ISTMA International Toolmaking Conference***

12 March 2013

Delcam is to sponsor the opening dinner of the 14th World Conference of the International Special Tooling & Machining Association (ISTMA) at the Tortworth Court Hotel, Wotton-under-Edge. The World Conference, which takes place from 3rd to 5th April, is being organised by the GTMA and being hosted by Renishaw at its headquarters in Wotton-under-Edge.

ISTMA is an international association representing thirty special tooling and machining associations throughout the world. Collectively, ISTMA member associations represent over 8,000 companies and over \$40 billion U.S. dollars in annual sales.

The Association meets regularly to review developments affecting the toolmaking industry throughout the world. GTMA members, in particular toolmakers, pattern makers and precision machining companies are invited to attend the meetings on 4th April to meet colleagues and Trade Association representatives from many of the countries making up the ISTMA membership.

"Delcam's origins are in the toolmaking industry so we are pleased to sponsor this ISTMA meeting," said Delcam Marketing Manager, Peter Dickin. "Even though we have diversified our business in recent years, toolmaking is still a key market for our CAD/CAM software. The ISTMA meeting provides a great opportunity to meet senior representatives of the industry from around the world."

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## ***EASTEC 2013: NCSIMUL Machine 9 Brings Realistic, Immersive and High Performance NC Simulation to Manufacturing***

11 March 2013

SPRING Technologies will demonstrate its recently launched NCSIMUL Machine 9 at EASTEC 2013 in booth 5517. The brand new version of its flagship software for machine simulation was introduced in North America this past January.

With NCSIMUL Machine 9, SPRING customers are stepping into an NC simulation environment that is more realistic, intuitive, and integrated, with extended features dedicated to multi-axis and multitasking machining centers. Further, the software package has been developed to interconnect with other company-wide software systems, such as MRP, ERP, and MES.

"NCSIMUL Machine 9 is much more than simply previewing toolpaths to avoid crashes," said Silvère Proisy, U.S. General Manager. "It offers users a unique experience where CNC realistic simulation, integrating all machine, tools, and material parameters, quickly becomes a day-to-day part of a manufacturer's lifestyle. More than 200 enhancements have been implemented based on extensive

customer surveys.”

NCSIMUL MACHINE 9: Taking the best from WINDOWS 8 PRO & INTEL multicore chips

SPRING is a Microsoft-certified “Gold” partner and an INTEL Software Partner. As such, NCSIMUL Machine 9 incorporates new ribbon technology navigation, enabling users to work more efficiently. Tasks are now accessed via tabs that break down into tasks and sub-tasks. The new interface has been specifically designed to work on touch screen devices to facilitate mobility. The intuitive and context-sensitive icons are presented as a rapid access bar, boosting programming productivity.

The "NCSIMUL Machine hub" apps enable users to browse any shared jobs or replay NC simulations with one-click. Flexible project-based management, tree organization, project/article/sub-article, jobs copied between projects, simplified search mechanism, job templates are among the new features in NCSIMUL Machine 9.

Also, the software makes full use of Intel’s multi-core processors and multithreading. Collision detection and material removal calculations are performed simultaneously. Algorithms have been revised and optimized to support ISO decoding, probing, material removal with tools in 3D, and optimized cutting conditions.

NCSIMUL Machine 9 also provides new interactive programming features that automate G-code generation from 3D motions or allow dynamic editing of the NC program to see the consequences in the 3D view. In addition, the newest 3D functional dimensioning module, particularly geared to sub-contractors enable users to add 3D graphics to workpieces and create a document describing the list of dimensions that need checking at each machining stage. This is a significant step forward towards a paperless factory.

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## ***Familiarize Yourself with KOMPAS-3D at Hannover Messe***

12 March 2013

KOMPAS-3D from ASCON Group, developer and integrator of professional CAD solutions, will be exhibiting at Hannover Messe 2013. From April 8th through 12 all the visitors to ASCON’s booth can get hands-on all the features in the 3D and 2D modeling software, as well as experience the many high-tech add-ons for KOMPAS-3D V13 Plus Plus.

Request your free entry ticket to Hannover Messe from [contact@ascon.net](mailto:contact@ascon.net), and then visit their booth D49 in Hall 7.

This year’s slogan for the fair is "Integrated Industry". Among others, KOMPAS-3D will be showcased

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as the intelligent solution that is aimed at cutting costs, optimizing process efficiency, and conserving resources — at every stage of the production chain.

KOMPAS-3D V13 Plus is the perfect solution for managers who are not interested in spending large sums of money to get high-level results. In the framework of the Digital Factory, the software will be presented to designers and engineers, IT experts, editors and journalists, students and representatives of educational institutions – in short, to all those interested in powerful, cost-effective MCAD software.

All the functions of KOMPAS-3D for 3D solid modeling and KOMPAS-Graphic for 2D design meet the high demands from today's high performance designers and engineers, at a price that is considerably more affordable than brand name solutions with the same functions.

## **We welcome you to visit us at booth D49 in Hall 7:**

- View showcases and demonstrations of software solutions for mechanical CAD — KOMPAS-3D and KOMPAS-Graphic
- Take part in tutorials and training by qualified CAD experts
- Perform function comparisons between KOMPAS-3D and other CAD solutions
- Pick up FREE trial versions of KOMPAS-3D V13 Plus to familiarize further after the show
- Sit in on ASCON Educational Program presentations

Visitors are welcome to compare their current CAD systems to the functions and prices offered by KOMPAS. For further details or to arrange a meeting, please contact direct at [contact@ascon.net](mailto:contact@ascon.net)

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## ***Intergraph® CADWorx® & Analysis University 2013 Joins HxGN LIVE in Las Vegas, Becomes Part of Hexagon Global Network***

12 March 2013

Intergraph® CADWorx® & Analysis University 2013 (CAU2013) has now become part of HxGN LIVE, the new name for Hexagon's international user conference, scheduled for June 3-6, 2013, in Las Vegas. CAU2013 participants will have a much broader experience with full access at HxGN Live to client success stories, new technologies and exclusive networking opportunities across Intergraph, Hexagon Metrology, Leica Geosystems and Z/I Imaging technologies.

CAU2013@HxGN LIVE takes place over four days and provides advanced plant design and engineering instruction for users and prospective users of Intergraph CADWorx, CAESAR II® and PV Elite®. These user-oriented, technically informative sessions will offer a balance of knowledge-filled lectures, hands-on labs and end-user interaction. The event will offer an opportunity for attendees to network and gain exposure to content and tools to help them and their companies become more

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productive.

Intergraph has issued a Call for Presentations for the multi-track educational sessions during HxGN LIVE. Presentations can be on industry trends, user success and new technologies that show other industry professionals how to use the company's products to reduce waste and errors, improve processes, save time or make other improvements to their bottom lines. The primary presenter will receive complimentary registration to HxGN LIVE. For more information, visit <http://conference.hexagon.com/tracks/ppm>.

Rick Allen, president of Intergraph CADWorx & Analysis Solutions and senior vice president of Intergraph Process, Power & Marine, said, "Moving the global CADWorx & Analysis University to Las Vegas so it coincides with HxGN LIVE will benefit current and future users of CADWorx, CAESAR II and PV Elite solutions. Attendees will have a chance to attend dozens of classes on our CADWorx & Analysis Solutions, as well as learn more about Hexagon's and Intergraph's many other offerings in a user-oriented environment. Attendees will also learn how to plan synergies around those offerings."

For more information about CAU2013@ HxGN LIVE, classes, instructors, current discounts and registration , visit [www.coade.com/CAU/HxGN/Home.shtml](http://www.coade.com/CAU/HxGN/Home.shtml).

In conjunction with the conference, Intergraph is conducting its CAU2013 Drivers of Success user competition. The competition is open to all users of Intergraph CADWorx, CAESAR II and PV Elite to submit stories about their successes using these solutions. First prize is an all-inclusive trip to CAU2013@HxGN. For details and a submission form, visit [www.coade.com/success-stories/DOS-Winners.shtml](http://www.coade.com/success-stories/DOS-Winners.shtml).

Intergraph CADWorx & Analysis Solutions (CAS) products allow design and engineering to share relevant information seamlessly, thereby maintaining accuracy and improving efficiency. These include CADWorx Plant Design Suite for AutoCAD®-based intelligent plant design modeling, process schematics and automatic production of plant design deliverables; CADWorx DraftPro™ for intelligent 2D design and layout; CAESAR II, the world's most widely used pipe stress analysis software; PV Elite for vessel and exchanger design and analysis; and TANK™ for the design and analysis of oil storage tanks. For information on Intergraph CAS, visit [www.coade.com](http://www.coade.com).

Information on Intergraph's analysis solutions can be found at [www.intergraph.com/ppm/analysis](http://www.intergraph.com/ppm/analysis).

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***Meet ESI at JEC Europe***

8 March 2013

[ESI Group](#) announces its participation at [JEC Europe](#), March 12-14 in Paris, France. Located at booth

# CIMdata PLM Industry Summary

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Y60, Pavilion 1, ESI will feature live demonstrations of its [Composites Simulation Suite](#). By accounting for the entire Composites Manufacturing Chain, the suite provides a comprehensive industrial capability to simulate the design, manufacturing and performance of composite parts.

JEC Europe is Europe's largest exhibition for composites, attracting over 32,000 visitors in 2012; 80% from outside of France. Featuring a large exhibition and side conferences, JEC Europe covers the full spectrum of processes, new materials, and composite solutions.

JEC Europe provides ESI an opportunity to showcase its composites solutions for the aeronautics, automotive, wind energy, and marine industry sectors. Their Composites Simulation Suite, which includes [PAM-FORM](#) and [PAM-RTM](#), allows designers and process engineers to dramatically decrease development time, production time and total cost. For instance, ESI's Composites Simulation Suite enables the optimization of tooling and injection/infusion processes and consequently reduces the cost of manufacture and waste due to defective parts. It is also used to determine the best combination of resins and fibers, to support the manufacture of innovative designs.

Several ESI clients and partners will present industrial case studies during the JEC Europe conferences. Customer presentations will include:

- **March 12, 10:30 a.m., Design Conference:** [Formax](#), global manufacturer of composite reinforcements, presenting a paper about simulation and optimization of carbon multi-axial fabrics;
- **March 13, 10:30 a.m., Automotive Conference:** [Volkswagen AG](#), the largest carmaker in Europe, delivering a presentation about draping and filling simulations for efficient process design of Non-Crimp-Fabric (NCF) composites parts;
- **March 13, 2:30 p.m., Aeronautics Conference:** Safran Composites, the recently created Composites R&D branch of [Safran Group](#), promoting the use of simulation to support RTM process strategies for engine components; and [CCHP](#), the high performance composite design & manufacturing Canada research chair, presenting the RTM process analysis and simulation of turbofan components.

These four industrial case studies clearly demonstrate ESI's leadership for composites manufacturing simulation; addressing dry textile preforming, resin injection / infusion in the preform, curing and distortions prediction, and prepreg thermoforming. Furthermore ESI's solutions enable the cause and effect relationships between the manufacturing processes and the structural performance to be determined by chaining the manufacturing simulation with virtual testing.

Companies using ESI's Composites Simulation Suite include BOMBARDIER Transport, BMW, Chengdu Aircraft, DOW, EADS, GE R&D, GE India Technology Center, Nordex Energy, Pratt & Whitney, Siemens Wind Power, Snecma and VZLU; all global leaders in their respective domains.

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## ***Pendleton Woolen Mills to Discuss Real World Experience and Benefits of Implementing YuniquePLM at the Upcoming Apparel Tech Conference West***

13 March 2013

Attendees of this year's Apparel Tech Conference in Los Angeles, California will hear how Pendleton Woolen Mills, an American heritage brand, has streamlined and optimized their business processes with the implementation of [YuniquePLM™](#). The conference will be held on March 19th at the Los Angeles Trade Technical College.

During the one-day event, attendees will hear from Catherine Dessellier, Pendleton Woolen Mills' PLM project manager, as she discusses how YuniquePLM has helped simplify Pendleton's business processes and enabled them to break away from long-established methodologies and traditional toolsets, to eliminate data discrepancies and development errors by relying on a single version of the truth. Dessellier will also discuss the importance of working with a trusted and committed supplier with deep domain knowledge.

Bill Brewster, vice president of Global Sales and Marketing for Gerber's Yunique Solutions business, said, "For retailers, brand owners and manufacturers, large and small, PLM can be a considerable investment in terms of time and resources. However, those that adopt PLM benefit greatly from the system's ability to centralize data from various parts of the business into one homogenous platform that makes good on its promise to deliver the right products to market, on time and at a lower cost."

YuniquePLM system is a user-friendly, collaborative system that connects creative teams with supply chain teams through robust integration with Adobe® Illustrator®, pattern design CAD software, sourcing and ERP solutions. It enables users to track responsibilities and workflows with powerful calendar management and business intelligence capabilities, generate "what if" costing scenarios and to collaborate effortlessly with global partners and suppliers. For more information about YuniquePLM, visit [YuniquePLM Product Lifecycle Management](#).

Apparel Tech Conference West will be held March 19, 2013. To register, [click here](#).

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## ***Registration Open for Global Aras Conference - ACE 2013 in Troy Michigan to April 30 - May 2***

14 March 2013

Aras® today announced that registration is now open for ACE 2013, the company's annual global conference. ACE 2013 will be held April 30 - May 2 at the Detroit Marriott Troy in Troy, Michigan USA. Details, Agenda and Free Registration at <http://www.aras.com/ACE2013>

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Collaborative innovation is the cornerstone of the Aras corporate community, and ACE 2013 is the place where everyone comes together. At ACE 2013, business and technology professionals from around the world will meet to learn about next generation product lifecycle management, and collaborate on PLM best practices for dealing with complexity challenges from global product development and systems engineering to enterprise quality and supply chain management.

Whether you're just forming your PLM strategy or expanding your Aras deployment worldwide, you'll get the information and insight needed for success. You'll hear firsthand how leading global companies have transformed their business and talk with people just like yourself that are working on PLM with Aras to get results.

Sessions are designed to encourage peer-to-peer interaction and networking so you can learn how others are approaching complex PLM challenges, get ideas and benchmark. Business and Technical tracks are complemented by a Getting Started track design specifically for people learning about PLM and Aras.

## Topics Include:

- Executive Roundtable Discussions
- Global User Presentations
- Live Solution Demos by End Users
- Requirements Management for Complex Systems
- Enterprise Change Management
- PLM in Manufacturing and Quality
- 3D / 2D Visualization
- Packaged Integrations for CAD, EDA, PDM and ERP
- Optimizing Global Multi-Site Deployments
- Federation for High Performance Integrations
- Best Practices for Agile Deployment Methodology
- Business Intelligence and Reporting
- New Aras Releases and Roadmap
- Cloud, Social, Mobile and more

**Date:** April 30 – May 2

**Location:** Detroit Marriot, Troy Michigan

**Cost:** Free to Attend - No Fee (Space is Limited - Registration Required)

**Details and Registration:** <http://www.aras.com/ACE2013>

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## ***Stronger ZWSOFT CAD Family to Hit Its Global Partner Conference***

11 March 2013

[ZWSOFT](#) is inviting worldwide partners to its 2013 Global Partner Conference (GPC) in Guangzhou, China on March 25<sup>th</sup>-27<sup>th</sup>.

In this global event, ZWSOFT will share new achievements in product development with users and partners from all over the world and receive feedback for its future product roadmap. The following is a sneak peek at the ZWSOFT CAD family, including ZWCAD+, ZW3D, ZWCAD Touch, ZWCAD Mechanical and more.

### **Real PLUS: Diverse ZWCAD Products to Meet Different Needs**

Leveraging ZWCAD+'s new superior core, the updated [ZWCAD+ 2012](#) SP2 will optimize the design experience with features including better image display.

Besides enhancement of the platform, ZWCAD+ has also expanded to the mobile field. [ZWCAD Touch](#), the extended version of ZWCAD+ for mobile, is an amazingly fast and easy-to-use CAD app for users to gain access to their design work anywhere, anytime. At GPC 2013, users will witness more versatile mobile design experiences with ZWCAD Touch.

In professional and specialized fields, with improved APIs of ZWCAD+, there are more new design applications based on ZWCAD+, greatly expanding design possibilities for users. Among them, [ZWCAD Mechanical](#), independently developed by ZWSOFT, is designed for efficient manufacturing design. With a marked enhancement of the standard customization and more to show at GPC 2013, the product will further increase the efficiency of mechanical design.

These new professional solutions in the ZWCAD family will better satisfy the diversified customer needs and fully exert the PLUS strength of ZWCAD+.

### **Stronger ZW3D as a Result of Closer Cooperation**

For 3D [CAD/CAM](#) solution, the latest version of [ZW3D 2013](#) to be released in March will enable designers to streamline design workflow, improve efficiency and more. Global partners will gain a deeper understanding of the product at GPC 2013.

The coming GPC 2013 will gather global partners and help ZWSOFT CAD products become stronger and better meet the growing needs for higher design efficiency.

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## Financial News

***ESI Group: 2012/13 Annual Sales: +15.7% to 109.0 Million Euros***

14 March 2013

Alain de Rouvray, ESI Group's Chairman and CEO, comments: "The solid growth recorded over this financial year has further strengthened ESI Group's leadership position in the virtual prototyping market, which has seen its rate of growth accelerate amongst key accounts where there is evident demand for technological breakthroughs and innovation. This trend explains the substantial growth in Services, particularly in sectors facing increasing competitive pressure and environmental constraints, where the technological and methodological added value of ESI's approach is a response to these essential challenges.

To be as close as possible to major industrial zones, the Group has successfully strengthened its presence to support the growth in BRIC countries, and notably in China and Russia.

The integration of our recent acquisitions is progressing well and we are maintaining our external growth strategy. However the unexpected slowdown observed in the United States in our fourth quarter and negative exchange rate expectations suggest caution in the beginning of the year."

### **4<sup>th</sup> quarter sales**

Sales for the 4<sup>th</sup> quarter of 2012/13 totalled 42.4 million euros, up +5.9% in actual terms compared with the same quarter of 2011/12. The seasonal effect inherent to ESI Group's activity over the period remained very strong, despite a slight weakening in a quarter that accounted for 39% of annual sales, as opposed to 42.5% a year ago.

The scope over the 4<sup>th</sup> quarter of 2012/13 was similar to that of the 4<sup>th</sup> quarter of 2011/12, as sales associated with the integration of [OpenCFD](#)'s activity were relatively insignificant over the period (€43k). The growth recorded over the 4<sup>th</sup> quarter can therefore be considered as essentially organic.

Licenses activity recorded sales of 33.2 million euros, an increase of +2.4% in actual terms when compared to the same period the previous year; a growth negatively impacted by patently difficult economic factors observed in the United States. The installed base grew by +3.9% to 30.9 million euros, giving a high repeat business rate of 84%, whilst New Business remained stable at 6.9 million euros.

Services activity maintained its high growth rate, with sales increasing by +20.7% in actual terms to 9.2 million euros. This growth was essentially achieved in Europe and Asia, United States remained stable due to budget issues, notably regarding governmental projects.

In the 4<sup>th</sup> quarter, total activity improved slightly in favour of Asia (28% vs. 27%) and Europe (51% vs. 50%) to the detriment of the Americas (21% vs. 23%).

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## Annual sales

The Group's annual sales came to 109.0 million euros in 2012/13, an increase of +15.7% in actual terms and +12.6% at constant currency. Excluding acquisitions, annual sales would have totalled 106.0 million euros, giving an organic growth of +12.6%. The product mix moved towards Services, which represented 28.9% of annual sales (vs. 26.9% the previous year), whilst Licenses accounted for 71.1% of annual sales (vs. 73.1%).

Over 2012/13, Licenses sales totalled 77.5 million euros, up +12.6% in actual terms. This increase was notably the result of New Business, which totalled 17.0 million euros in 2012/13 compared with 15.9 million euros a year earlier; an increase of +6.6%. Growth was also driven by the substantial increase of +11.7% in the installed base to 61.2 million euros, giving a repeat business rate that remained high at 86.5% (vs. 87.4% in 2011/12).

Services sales recorded buoyant growth of +24.1% to 31.5 million euros, reflecting the growing demand for high value-added projects.

The geographical split in activity remained globally stable: Europe 43%, Asia 37% and the Americas 20%.

## 2012/13 highlights

Despite the economic difficulties observed in the United States in the 4<sup>th</sup> quarter, ESI Group has seen a further migration of manufacturing industry towards digital factories and engineering. The figures recorded over the 2012/2013 financial year again emphasise the acceleration in virtual prototyping in a growing number of industrial sectors; a phenomenon particularly noticeable in the sectors that are the most competitive and subject to major regulatory constraints.

To view an unabridged version of this press release, visit: <http://www.esi-group.com/corporate/finance/news/financial-press-release/2012-13-annual-sales-15-7-to-109-0-million-euros>

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## Implementation Investments

### *Cimatron Secures Major Deal with Giant 3C Manufacturer*

11 March 2013

[Cimatron Limited](#) announced today a major deal involving the deployment of CimatronE CAD/CAM software within one of the world's largest manufacturers for the global computing, communication, and

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consumer electronics (3C) industry. The Taiwanese based Group prides itself with serving some of the world's leading and most famous global brand names.

"We held benchmarks against a variety of CAD/CAM solutions, but the customer found CimatronE to be the best in terms of productivity and the quality of the parts produced," said Mrs. Lang Yan, Cimatron's General Manager for Greater China. "The benchmarks covered the design of complex electrodes, dies and fixtures, as well as CNC machining, and in all of these CimatronE excelled."

The Taiwanese Group claims the largest share of the magnesium alloy die casing manufacturing market for the global 3C industry, producing parts mainly for notebooks, smart phones and other electronic devices. It also manufactures aluminum, zinc, stainless steel and plastic parts with different forming processes, such as die casting, press, forging, extrusion and injection molds. The Group has 40,000 employees across its offices in Taiwan and four large manufacturing facilities in mainland China.

"The Taiwanese Group is among several of our larger customers specializing in the design and manufacture of high-end components for the computing, communication and consumer electronic markets," said Mr Ira Bareket, Cimatron's VP Sales and Marketing.

"The Group operates in a very competitive and demanding field, characterized by innovative products with relatively short lifecycles that are subject to frequent design changes and exacting standards in terms of quality. Today's consumers demand ever more technologically advanced, sophisticated products that are visually appealing, and it is up to the 3C manufacturers to meet this need by implementing manufacturing technologies capable of supporting the challenging design requirements, while looking for ways to reduce delivery time."

"We make it our business to help customers like the Taiwanese Group meet their business goals by providing them with CAD/CAM software that can address their specific manufacturing business needs. We look forward to working in partnership with them and contributing to their continued success."

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## ***LinenLOCK Keeps Bed Sheets in Place with SolidWorks 3D Design***

13 March 2013

Charles Patzer was tired of waking up to a bed with sheets caught in a tangled mess and strewn in every which direction. A 22-year R&D expert with 57 patents to his name, Patzer turned to [3DVision Technologies](#), a [SolidWorks](#)® software Value Added Reseller, for help in solving this bed sheet nightmare. Patzer's problem resulted in creating [LinenLOCK](#)™, a fitted plastic sheet holder for a bed that eliminates tangled and loosened sheets.

Patzer previously used SolidWorks during his time in R&D for a major medical device company. When

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he decided to open a consulting firm, he soon recognized that SolidWorks 3D design software would be critical for creating plastic molds that reduces materials and minimizes manufacturing costs.

“When I first designed LinenLOCK, the plastic injection mold was large enough for two cavities, but it only yielded one final cavity,” said Patzer. “The mold’s size and yield made it clear that materials needed to be reduced for LinenLOCK to achieve a competitive price point. Thanks to SolidWorks, I was able to modify my original models to not only reduce costs, but produce a stronger, more durable product.”

In the end, Patzer created a new set of cavities that decreased LinenLOCK’s material weight by approximately 30 percent and maintained its cost point. “The beauty of SolidWorks is the ability to remove excess plastic, predict the part’s weight and ensure its strength,” said Patzer.

Further, Patzer has taken advantage of [SolidWorks eDrawings](#)<sup>®</sup> software to help communicate LinenLOCK’s features and components to third parties. eDrawings, now available on the iPad<sup>®</sup> tablet device, allows Patzer to provide a visual description of his product to partners, vendors and patent attorneys who do not have SolidWorks. “Many people outside of the mechanical design realm greatly benefit from actually seeing your product on their iPad. eDrawings has allowed to me to add an interactive visual component that helps me better represent my product and invention to potential buyers and professionals not familiar with the design process.”

Since designing LinenLOCK, Patzer has been demonstrating the product at major tradeshow and teaming with top retailers including Amazon, SkyMall and Bed Bath & Beyond to end the tangled sheet situation and continues to dream of inventions to solve housekeeping problems.

“Seeing LinenLOCK hit the shelves at major retailers is a great success for Charles and demonstrates how inventors can benefit from SolidWorks design software,” said Todd Majeski, President, 3DVision Technologies. “Charles recognized a problem, used his engineering background, refined his invention in SolidWorks and ultimately created a successful product addressing the issue. The process really sounds like a dream, especially when an inventor achieves his goal.”

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## ***Raydium Broadens Adoption of Berkeley Design Automation Analog FastSPICE™ Platform for TFT-LCD System ICs***

12 March 2013

Berkeley Design Automation, Inc., today announced that Raydium Semiconductor Corporation, a global provider of integrated circuit (IC) solutions for TFT-LCD panels, has broadened the adoption of the company’s Analog FastSPICE (AFS) Platform across their design teams for complex analog circuit verification of display and power ICs.

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“We initially deployed the AFS Platform because it delivered nanometer SPICE accuracy 5x faster than our existing limited-accuracy digital FastSPICE simulator for our CDR circuits,” said Dr. Chin-Chieh Chao, Vice President at Raydium. “Since our initial deployment, the AFS Platform has consistently delivered nanometer SPICE accuracy 5x-10x faster for our display and power ICs for TFT-LCD applications and as a result we are broadening the adoption of the product across our design teams.”

The Analog FastSPICE Platform provides the fast circuit verification for nanometer analog, RF, mixed-signal, and custom digital circuits. Foundry certified to 20nm, the AFS Platform delivers nanometer SPICE accuracy 5x-10x faster on a single core and 2x-4x faster on multicore systems versus any other simulator. For circuit characterization, the AFS Platform includes the industry’s only comprehensive silicon-accurate device noise analysis and delivers near-linear performance scaling with the number of cores. For large circuits, it delivers >10M-element capacity, the fastest near-SPICE-accurate simulation, and the fastest, most accurate mixed-signal simulation. Available licenses include AFS circuit simulation, AFS Transient Noise Analysis, AFS RF Analysis, AFS Co-Simulation, AFS AMS, and AFS Nano SPICE.

“We are delighted that Raydium is broadening the deployment of the Analog FastSPICE Platform across their design teams,” said Ravi Subramanian, President and CEO of Berkeley Design Automation. “Delivering competitive high-performance ICs for large-size LCD panel, mobile phone, digital camera, and AV applications is a significant challenge. Raydium's broad adoption of the AFS Platform for all these applications validates, once again, that Berkeley Design Automation is an essential partner to semiconductor companies in consumer electronics markets.”

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### ***Speedo® Selects vrMockshop Visual Merchandising Software from Centric Software***

12 March 2013

Speedo® has purchased the [vrMockshop visual merchandising software](#) from Centric Software, Inc.

Centric provides [product lifecycle management \(PLM\) software for retail, apparel, footwear, luxury and consumer goods companies](#). vrMockshop, developed by iShopShape, a Centric partner, is a virtual reality tool that helps brands and retailers build fully merchandised, interactive 3-D virtual stores of any size, and instantly generate planograms. vrMockshop integrates quickly and easily with the Centric 8 PLM system for retail, apparel, footwear, luxury and consumer goods companies.

Speedo will use the vrMockshop software to maximize range planning and understanding of retail space, through 3-D mockups and store planograms.

“Centric appreciates the value of branding and merchandising effectively,” says Chris Groves, CEO and president of Centric. “With vrMockshop, Centric is providing Speedo an opportunity to better

implement exacting merchandising standards—standards that ultimately lead to improved planning and customer satisfaction.”

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## Product News

### ***Agilent Technologies Integrates Device Modeling Flow with Shipment of Newest SPICE Model Extraction and Qualification Software***

13 March 2013

Agilent Technologies Inc. announced shipment of the latest release of its industry-leading SPICE model extraction tool, [Model Builder Program](#), and SPICE qualification tool, [Model Quality Assurance](#).

MBP and MQA 2013 feature major enhancements designed to enable device modeling engineers to deliver higher-quality models to their customers. Chief among them are a fully integrated data flow across Agilent's device modeling platform and the ability to establish and enforce standard operating procedures for modeling in team environments.

"With our acquisition of Accelicon last year, we continue to expand our expertise in device modeling," said Charles Plott, director of product planning at Agilent EEs of EDA. "This expertise uniquely positions Agilent to deliver a seamless data flow from measurement to model extraction to qualification."

#### **Key MBP Capabilities**

One of MBP's new components, Model Reviewer, allows users to standardize various aspects of device modeling in team environments. Model Reviewer enables teams to standardize model extraction policies, setup of the extraction environment, data usage, parameter-range enforcement and review procedures, among other things.

"Device modeling teams are mostly concerned with model quality and team efficiency," said Xisheng Zhang, device modeling marketing manager at Agilent. "Being able to establish and enforce standard operating procedures through MBP is critical to minimizing human errors from the onset of model extraction, which significantly improves team efficiency."

Other new MBP capabilities include model extraction based on circuit-level figures of merit, built-in principal component analysis, and a GUI-based custom model extraction environment.

#### **New MQA Features**

MQA now offers full support for Agilent's [GoldenGate](#), the RF circuit simulator, and Synopsys' FineSim tool. It also gives users the ability to benchmark SPICE libraries with various versions of a simulator,

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making it a breeze for simulator upgrade qualification. Additionally, a parallel-run mechanism enables MQA to deliver considerably faster performance.

"The numerous and diverse set of new capabilities in MBP and MQA reflect the latest device modeling challenges in methodology and productivity that our customers now face," said Brian Chen, device modeling product manager at Agilent. "Having these solutions in MBP and MQA 2013, readily available at users' fingertips, goes a long way in creating the highest quality models with the best efficiency."

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## ***Agilent Technologies Launches Recognition Program for EDA Experts***

12 March 2013

Agilent Technologies Inc. today launched its [Agilent Certified Expert recognition program](#) for electronic design automation experts. Eligible participants include individuals demonstrating a high level of expertise-both theoretical and practical-in applying Agilent EEs of EDA tools for product design and modeling.

Immense collective knowledge exists within the 20,000-strong worldwide user community, which has emerged from over 30 years of Agilent EDA application to the design of high-frequency and high-speed communication systems and circuits. Through its certified expert program, Agilent is working to publicly recognize the knowledge contributed by those who have become uniquely proficient with its design and simulation tools.

The Agilent Certified Expert program also enables Agilent to gain insights from experts to shape the next generation of EDA products. It provides a way to recognize expert users for their technical achievements as well as certification to formally accredit their skills. Additionally, it offers a forum for top users to learn from industry experts and allows Agilent EEs of EDA's best users to contribute their knowledge to industry.

"The Agilent Certified Expert recognition program honors individuals who are extremely proficient in the application of Agilent EEs of EDA tools to design complex systems and circuits demanded by the wireless, aerospace/defense and high-speed digital industries," said Todd Cutler, general manager of Agilent EEs of EDA. "Those who share their knowledge on how they apply the tools are the ones that really set themselves apart by helping move the whole industry forward."

Key benefits of the Agilent Certified Expert EDA software certification include:

- Public recognition of technical expertise in the industry.
- Right to use the official Agilent Certification logo in forums and on resumes.
- Ability to be part of Agilent's network for potential consulting opportunities.

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- Access to personal Agilent EEsof EDA software loans during periods of career transition.

For more information regarding the Agilent Certified Expert recognition program or to obtain a list of inaugural members, see [www.agilent.com/find/eesof-ace](http://www.agilent.com/find/eesof-ace).

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## ***AVEVA Releases New Business Paper on Integrated Steelwork and 3D Plant Design***

12 March 2013

AVEVA today announced the release of ‘*Bolting it all together*’, the latest in its series of business papers, which discusses how integrating structural steelwork and plant layout design can reduce project cost, risk and delivery time. The paper explores the business advantage that EPCs and Shipbuilders, working on plant/offshore projects, can gain by using a specialised steelwork application that can be used efficiently within a plant design solution to support close, collaborative working through an entire design and construction project.

“Steelwork often accounts for a disproportionate level of project risk, rework, and overruns in cost and delivery,” said Bruce Douglas, Senior Vice-President, EDS Strategy & Marketing, AVEVA. “It is common industry practice to subcontract steel detailing and fabrication to specialised companies, with most plant design solutions not extending to the steelwork design/fabricate/construct workflow. Communication links are therefore stretched in a process that demands close collaboration, resulting in general project inefficiency that can lead to costly rework and programme overruns.”

The business paper demonstrates the need for EPCs and Shipbuilders to consider solutions that enable the development of steelwork design concurrently with the rest of the layout, in a common 3D model. Efficient parallel development enables the overall design to meet essential requirements such as ease of construction, accessibility, space constraints and operational safety.

Mr Douglas added, “This capability overcomes one of the biggest risks in plant project execution. With such integration, EPCs and Shipbuilders working with plant and offshore projects, gain extensive productivity, capability and design coordination benefits, eliminating the risk of steelwork design diverging from the plant layout design. They achieve maximum design consistency and can create the high-quality deliverables necessary for accurate, right-first-time steel fabrication and construction.”

The business paper follows AVEVA’s acquisition in May 2012 of bocad, the structural steel detailing software.

AVEVA Bocad Steel is a software solution for structural design and fabrication, serving EPC, Shipbuilders and steelwork fabrication companies with specialised solutions for both onshore and

# CIMdata PLM Industry Summary

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offshore construction. Together with AVEVA PDMS and AVEVA Outfitting AVEVA's 3D design software, it provides a collaborative working environment for the entire plant and ship design and construction project.

The business paper is available to download from [www.aveva.com/boltingtogether](http://www.aveva.com/boltingtogether).

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## ***BETA CAE Systems S.A. Announces the New v14.0.2 Release of the ANSA & μETA Pre- & Post-Processing Suite***

13 March 2013

Following the releases of v14.0.0 and v14.0.1 of the ANSA & μETA pre-and post-processing suite, with outstanding new software features and tools, which enhance the user experience and increase the simulation processes performance, BETA CAE Systems S.A announce the release of version v14.0.2 with enhancements and known issues resolved.

### **Enhancements and Known Issues Resolved in ANSA Pre-processing**

#### Enhancements

Four new script functions have been added in the Scripts Collection Catalogue, namely:

- script CheckFreeMasterNodesOfConstraints.bs (located in scripts/Checks folder)
- script ModifyRBE3s.bs (located in scripts/Constraints folder)
- script VisualizeCONM2sAsHEXAs.bs (located in scripts/Elements folder)
- script SegregatePID.bs for 14.0.2 (located in scripts/Properties folder)

#### Known Issues Resolved

- Selection of large number of connection entities is now significantly faster
- FIX QUAL would change nodal thickness
- DELETE in PID selection mode would delete non-visible faces of the same PID
- Resulting mesh of 2nd order elements generated through BATCH MESH would sometimes result in intersections.

### **Enhancements and Known Issues Resolved in μETA Post-processing**

#### Enhancements

In the BusRollOver toolbar:

- A new option is available for cutting all parts when creating cut planes from the 3d > Sections option.
- A new method, named Global direction, is available for the calculation of the intrusion of the vehicle's superstructure to the survival space.

## Known Issues Resolved

- The Unix/Linux version of  $\mu$ ETA might hang after copying a path from another workspace and pasting it to another, in which  $\mu$ ETA was open
- Adina corner results could not be read correctly
- Results from certain FEMZIP LS-Dyna files would not be read
- Wrong visibility of failed elements for certain LS-Dyna files
- Complex and corner scalar results on solids, shells and beams were not supported correctly in 2D Plot from Nastran \*.op2 and \*.pch files
- History results from Pamcrash THELE on SPH elements could not be read correctly.

For more information, visit: [http://www.beta-cae.gr/news/20130313\\_announcement\\_ansa\\_meta\\_v14.0.2.htm](http://www.beta-cae.gr/news/20130313_announcement_ansa_meta_v14.0.2.htm)

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## ***Certiport Announces Availability of Autodesk Revit Architecture Certification Exam***

13 March 2013

[Certiport](#) announced the availability of the Autodesk® Revit® Architecture Certified User exam as part of the Autodesk Certified User (ACU) certification program. Autodesk Revit Architecture software is specifically built for Building Information Modeling (BIM), helping building professionals design, build, and maintain high quality, more energy-efficient buildings.

“Since the launch of the ACU program nearly two years ago, we have seen it fulfill academic and industry requirements as secondary schools prepare students for design careers,” said Craig Bushman, Vice President of Marketing, Certiport. “We are adding the Autodesk Revit Architecture exam to give design and engineering students another building block on their resumes to prove they have what it takes to perform on the job.”

The Autodesk Revit Architecture exams combine multiple-choice and performance-based questions to ensure students understand and can effectively use Autodesk Revit Architecture software.

“As career and technical education programs embrace the Autodesk Certified User certification and now the new Revit certification, they can bring hands on learning and skill validation together in the classroom,” said Don Carlson, Director for Post-Secondary and Training & Certification, Autodesk. “Certification validates that students have these in-demand design skills – it proves to employers they can perform the tasks efficiently. We want to offer students the opportunity to certify on as many of our products as possible, which makes the launch of the Revit exams a great opportunity for schools to expand their Autodesk certification offerings.”

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The Autodesk Education Community offers students and educators free software, learning materials and classroom support, giving them experience with the same design software that professionals use every day. Institutions already offering ACU exams can easily add the Autodesk Revit Architecture exams to their offerings.

Schools can become Certiport Authorized Testing Centers to provide Autodesk certification exams in their classrooms and certify student design software skills with recognized, industry certifications. Classroom and Campus License options allow schools to conduct unlimited online testing for an affordable annual fee that simplifies budgeting by eliminating per-test costs. Learn how to become a Certiport Center at <http://www.certiport.com/go>.

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## ***Datakit Announces CrossManager 2013 Update***

12 March 2013

Datakit announces CrossManager© 2013 update for CAD converters, along with plugins and SDK toolkits.

This release shows critical enhancements in PDF 3D output, including construction tree nodes, display of Product Manufacturing Information annotations along with modelviews, part-level and assembly-level PDM metadata and enhanced rendering performance.

This new PDF 3D update leverages CrossManager© 2013 conversion settings (entity filtering, tessellation quality and model selection).

This CrossManager update is expected to be released in April 2013 from this location [:http://www.datakit.com/fr/cross\\_manager.php](http://www.datakit.com/fr/cross_manager.php).

Datakit is continuously bringing new functional enhancements including STEP reader/writer conformance to CAX-IF Recommended Practices and LOTAR expectations. Datakit will take part as a Solution Provider to the LOTAR 2013 Q1 Workshop (March 11 -13, 2013; Gaithersburg, MD, USA), in conjunction with PDES, Inc. Spring Offsite Meeting and CAX-IF Round31J Review Meeting.

To get more information, please browse and register on datakit website:

<http://www.datakit.com/en/register.php>.

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## ***Docea Power Unveils New Release of Aceplorer and AceThermalModeler***

14 March 2013

# CIMdata PLM Industry Summary

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Docea Power, the design-for-lowpower company that delivers software solutions for power and thermal analysis at the architectural level, announced new releases of Aceplorer 3.1 and AceThermalModeler 2.0.

Aceplorer 3.1 features a new solver for coupled power and thermal transient simulations featuring 1000x performance gains over the previous versions and a communication protocol enabling the co-simulation of Aceplorer models with virtual platforms and performance analysis tools. AceThermalModeler 2.0 (ATM) improves its usability.

Aceplorer is Docea Power's system-level power and thermal modeling and simulation software for early architecture exploration, architecture validation and power budget tracking. AceThermalModeler generates compact thermal models for System on Chips (SoCs), 3D ICs, Systems in Package (SiPs) or complete board.

Docea Power will be demonstrating its new software releases at DATE (Design Automation and Test) 2013 in Grenoble from March 19 to 21 on booth #41.

“With the combination of higher power density and smaller form factors, the limit of what current packaging solutions can dissipate is being reached for many devices. A high junction temperature or a high case temperature can quickly limit access to full performance and hamper the user's experience,” noted Ghislain Kaiser, Docea Power CEO. “Our latest releases, give systems architects better tools to optimize their design and support a collaborative framework among system architects, packaging designers, thermal experts, software developers and SoC designers.”

## What's New

Aceplorer 3.1 features a fast solver for coupled power and thermal simulations with 1000x performance gains over the previous version. It also features a communication protocol for 3rd party tools that enables co-simulation with timed virtual platforms or performance analysis tools. Co-simulation of timed virtual platforms and Aceplorer models allow users to simulate dynamic power and thermal management strategies using real use cases where simulation duration ranges from a few seconds to tens of minutes.

Docea's dynamic power and thermal management simulations allow system architects to scale the operating point in the performance model with power and temperature feedback provided by Aceplorer's virtual power model during simulation.

AceThermalModeler 2.0 improves usability and has an enhanced graphical user interface to ease the modeling. Models generated with AceThermalModeler are imported in Aceplorer for transient and steady state thermal response to use case based power stimuli.

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## *EMA Announces Team Design for OrCAD*

12 March 2013

EMA Design Automation ([ema-eda.com](http://ema-eda.com)), announced Team Design for OrCAD facilitating schematic design in a team environment. “Our engineers saw first-hand the challenges design teams were facing when trying to work collaboratively on schematic projects using traditional methods like shared drives and email threads. We decided there had to be a better way,” said Manny Marcano, president and CEO of EMA. “Team Design for OrCAD is the result, providing a truly collaborative and flexible management system for design teams.”

Integrated directly inside the OrCAD Capture interface, Team Design for OrCAD allows engineers to easily view a full history of all current and previous projects. Project leads can define users and their roles, controlling design responsibilities as well as access rights to specific pages and functional blocks. Once added to a project, design team members are able to view project status, add new pages, download existing page(s) for editing, and upload any changes back into the system.

One of the biggest challenges design teams face is making sure engineers are always working on the latest version of the schematic page or project. Team Design for OrCAD solves this problem with automated page locking upon download. Page locking prevents edit collisions, while keeping other project members informed of the page’s status, including who is currently editing it. Once the user uploads the pages back into Team Design for OrCAD, the lock is removed and those pages are again open for editing by authorized users.

When uploading changes, an engineer is able to enter notes describing the modifications made, ensuring a full audit trail including timestamps and details of all updates made to the project. Along with upload notes, Team Design for OrCAD maintains all past page revisions, allowing a team to rollback changes easily. This is very useful when an engineer wants to explore different design possibilities without fear of losing earlier proven versions.

A key feature of Team Design for OrCAD is that it doesn’t change the current use model for the individual OrCAD Capture user. Team Design for OrCAD captures the details and history of the design, and allows collaborative activity. Once a team member gets their pages for editing, they are able to use all of the standard OrCAD functionality as usual. This means adopting Team Design for OrCAD will require virtually no learning curve.

Since EMA’s customers span a wide range, from small design shops to billion dollar multi-national corporations, Team Design for OrCAD was architected from the start to scale seamlessly and provide value to small and large customers alike. Whether it is a small group of engineers working in the same office just trying to get a handle on their design data or enterprises with geographically dispersed offices and overseas design partners, Team Design for OrCAD is easily adopted providing immediate productivity gains.

For more information about EMA and the new Team Design for OrCAD, visit EMA at [www.ema-eda.com/TeamDesign](http://www.ema-eda.com/TeamDesign) or call 800-813-7494.

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## ***IES Launch New 3D Viewer for Evacuation and Occupant Movement Simulation Tool***

12 March 2013

A new 3D viewer that animates building evacuation and occupant movement has been launched by Integrated Environmental Solutions (IES). The Simulex tool, previously only available in 2D plan views, has been given a facelift to offer advanced animation capabilities to investigate building egress and ingress. It is used worldwide, can model different populations and is readily accepted by planning authorities. Simulex also uses distance mapping for automated travel-distance analysis, a component of all worldwide fire regulations.

The tool allows users to define a building and its occupants, and simulate how they move around a building day-to-day and evacuate during an emergency. The new 3D viewer animates occupant movement on each floor of the building, while allowing the user to “fly round” the building for easier visual analysis. It provides quick access to movie recording, and additional effects such as wall and floor transparencies.

Simulex can help to identify potential problems and bottlenecks and find solutions to ensure that everybody gets out quickly and safely in an emergency. It can accurately predict how long it will take for all occupants to reach the exits, based on the number of people left in the building at any time.

“The great thing about our new 3D viewer for Simulex is that it offers a much more visually compelling user experience and allows users to demonstrate more clearly to planning authorities that their designs meet or exceed their criteria”, says Don McLean, Founder and Managing Director, IES. “The results are verified by real-life data, research and independent testing so it maintains accuracy even in the most complicated building models”

The IES Simulex tool can be purchased online at <http://www.iesve.com/software/buyingoptions?id=480>

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## ***LightWave v11.5, LWCAD v4.5 Bundle Available***

13 March 2013

The LightWave 3D Group, a division of NewTek, Inc., announced a new Architectural Design Bundle that couples LightWave 11.5 3D modeling, animation and rendering software with WTools3D’s LWCAD 4.5 CAD tools for LightWave.

The bundle includes a powerful set of features that architects, set designers and interior designers can use to cost-effectively create professional 3D visualization and animation for the most demanding design projects.

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“LightWave and LWCAD have always had a strong presence in the architectural community,” says Viktor Velicko, creator of LWCAD. “By collaborating with the LightWave 3D Group to put together this new Architectural Design Bundle, architects and designers now have all the tools they need to create professional 3D visualizations and walkthroughs that are impressive and affordable.”

Some of the many features in LightWave 11.5 for architectural visualization and animation include:

- **Real World Measurement Capabilities:** Utilizes real-world measurement units with numeric conversion via a mini-calculator and support for metric and imperial values.
- **Multiple Lighting Solutions:** Offers image-based lighting and Skytracer for physically-based day and night lighting scenarios. The Sun Spot Modifier provides accurate sun positioning based on latitude, longitude and time zone. Time lapse settings allow for easy day and night cycles, and photometric illumination using standard Illuminating Engineering Society (IES) files.
- **Interactive Modeling Tools:** Introduces new tools such as UV unwrap, edit edges, place mesh, slice, thicken and heat shrink to complement the already robust 3D modeling toolset.
- **Instancing Features:** Duplicate object masses with little memory overhead while taking advantage of new features like object control for scale, stretch, offset and rotate. Instancing can also be used to randomly scale, position, rotate and surface objects differently from the source object.
- **Advanced Rendering Options:** LightWave’s production renderer is the same renderer used to create highly realistic visualizations for television and film, supporting up to 999 render nodes in one LightWave license. Interactively view global illumination and work in progress in a viewport window with Viewport Preview Renderer (VPR), which supports depth-of-field (DOF), motion blur and anaglyph stereo as well as instancing and volumetric systems in the interactive render window. And the rendering for print capability sets the camera frame to the correct dimensions for print, taking into account DPI and bleed.

LightWave 11.5 also offers interactive flythrough and walkthrough technology with plug-and-play support for the 3Dconnexion SpaceNavigator device. Additional features include After Effects Interchange tools, a Shadow Catcher for compositing objects in a scene, Linear Color workflow for control over color profiles, support for multiple file formats, dongle-free licensing with free technical support, and more.

## About LWCAD 4.5

LWCAD is a complete set of standard CAD tools for LightWave created specifically for architectural design and visualization. Some of the many new features in version 4.5 include:

- **Powerful CAD Tools:** Extend the LightWave Modeler with CAD specific 2D drawing capabilities such as primitives, lines, curves, and arcs; 3D CAD tools include trim, knife, extend, blend, offset, fillet and many others.
- **OSNAP Engine:** Construct precise models using snap types such as point, center, intersection, tangent, perpendicular, ruler, projection, angle, grid and more.
- **Real-Time Booleans:** Cut, slice and edit models with real-time Boolean options that are

available in many of the software's tools.

- **ViewPort Interactivity:** Speed productivity and access LWCAD's onscreen controls directly in the viewport. LWCAD 4.5 also includes a Universal Coordinate System (UCS), shape tools to manage instances and conversions to polygons, interactive wall grids, furniture tools and shapes for fast interior modeling, architectural presets for interior and exterior elements, and much more.

To locate an authorized LightWave reseller or for more information about LightWave visit <http://www.lightwave3d.com>.

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## ***Luxion Brings Live Linking and Support for Mechanisms to PTC Creo 2.0***

12 March 2013

Luxion is pleased to announce a completely new level of connectivity between KeyShot 4 and PTC® Creo® 2.0 that will significantly enhance the overall workflow and further integrate the highest quality rendering and animation creation in the product development process.

With the release of KeyShot 4, Luxion has implemented new functionality between KeyShot 4 and PTC Creo 2.0 that allows users to push their design changes directly from the PTC Creo 3D modeling application into KeyShot and have the entire KeyShot scene update automatically. In addition, Luxion has added the ability for Mechanism Animations created within PTC Creo to be directly imported into KeyShot via the free KeyShot plugin for PTC Creo. With the powerful CPU-driven architecture that makes KeyShot the perfect solution for rendering large models created in PTC Creo, this adds a new level of integration into the product design process early prototyping phase, when the final design is being presented, or when sales and marketing images are being produced – a design update is literally just a button push away.

“Luxion is the first partner to bring this level of integration to the PTC Creo platform with their 3D rendering and animation solution,” says Michael Campbell, Executive Vice President, CAD Segment, PTC. “With the updated KeyShot plugin for PTC Creo, anyone involved in the product development process, including sales and marketing, can benefit from the ability to create stunning visuals from PTC Creo data with just a few clicks.”

### **Live Linking**

With the KeyShot plugin installed, KeyShot and PTC Creo are connected in a live session. PTC Creo users will be able to make a change to the design at any level—update geometry, add, delete or move components—and send those updates directly to a running session of KeyShot. The scene inside KeyShot will update automatically while maintaining all materials, animation, camera and lighting setup. Optionally, the user can add a new design iteration to the scene rather than updating the existing design.

## **Mechanism Support**

Included with the KeyShot plugin is the ability to transfer PTC Creo Mechanism into KeyShot. Users can create their mechanisms in PTC Creo, or take existing mechanisms, and with the selection of a button on the KeyShot tab, transfer the animation via the .fra animation file directly into KeyShot. The animations can be played back, adjusted in length, or used to create additional animation sequences. Once satisfied with the setup, the user can render out a high quality movie of the animation. View a video of how this works [here](#).

## **Availability**

Live Linking and Animation support is currently available as a core feature in KeyShot 4. The free KeyShot plugin for PTC Creo is available at <http://keyshot.com/downloads/plugins/>. A KeyShot and PTC Creo bundle is available to students and faculty through the [PTC Web store](#). To learn more about KeyShot please visit [keyshot.com/keyshot/keyshot\\_for\\_creo.html](http://keyshot.com/keyshot/keyshot_for_creo.html).

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## ***JETCAM Launches New Premium Version of Orders Controller***

8 March 2013

JETCAM International announced the launch of a new version of its JETCAM Orders Controller (JOC) Premium product at the JEC Composites trade fair in Paris from 12th to 14th March.

JOC Premium II, which can be seen at stand U94, employs the company's CrossTrack-style interface and builds upon the success of the JOC Lite II, released late 2012. The product provides a quick way to remotely build unlimited worksheets of components for nesting, either manually or automatically. It supports multiple JETCAM Expert systems, so can send CAD files for tooling to one Expert system while sending orders for nesting to another.

JOC Premium II has been completely re-written from the ground up and takes full advantage of today's powerful PCs and operating systems. The new CAD import interface not only provides background processing, but also supports CSV import. This allows MRP systems to automatically send lists of CAD files with full part programming information (PPI) for importing to JETCAM Expert system(s). Native component files are then created and tooled for any given machine automatically and within seconds. JOC Premium II works with all native CAD files supported by JETCAM Expert, including DXF, DWG, IGES, SolidEdge, SolidWorks and AutoPOL formats.

A number of new functions have been added to increase the product's capabilities. Users can select one or more components and immediately see which nests contain these components. Component graphic views are available on all relevant screens, with mouse panning and zooming. Parts can be easily identified on the graphic representation of the nest by simply clicking on the part number in the list. Cost estimation is displayed against each nest, taking into account factors such as material/scrap cost, machine/operator hourly rates and setup/unloading times. Right clicking on a nest allows for exporting of nest data to CSV for importing back to MRP. A comprehensive nest report in PDF format can also be

instantly generated.

Complex assemblies can be constructed with unlimited subassemblies. Users can drag and drop files or folders into their assembly tree, or even create assemblies automatically using the component folder structure on the user's hard disc. Revision control for subassemblies is also covered, ensuring that the correct revision of a part is always used. Once created, assemblies or individual parts can be ordered by right clicking or dragging/dropping onto a worksheet.

Customers with large numbers of parts or orders are well catered for. At the top of each page are search, filtering and grouping options, allowing information to be quickly narrowed or grouped to the user's requirements. This includes grouping by order, material, thickness or machine. Aspects of user interface are customisable, and the pullout side menu allows you to ensure that only essential information is displayed in the main window but that all other information is never far away.

Users of JETCAM Expert's parametric programming modules also benefit from built in interactive and automatic parametric program file editors and the ability to automatically and easily create automatic parametric programs.

The software ships with over 30 tutorial videos that walk the user through all major features of the software, with most users being able to competently use the system in under an hour.

Martin Bailey, General Manager commented; "JOC Premium II is a considerable step forward for customers looking for automated and streamlined interface to remotely control component ordering and nesting across one or more JETCAM Expert nesting system. With the new automatic CAD import features, nest costing, parametrics support, part identification, revision control and nest data export, JOC Premium II covers a much wider role than ever before."

JOC Premium II runs on Windows XP, Vista, 7 and 8 in both 32 and 64 bit versions. It works with all JETCAM Expert Premium systems with the nesting interface module. Existing users with a current maintenance contract will receive the updated version at no additional cost.

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## ***MakerBot® and Autodesk Partner to Bring 3D Design and 3D Printing to Everyone***

8 March 2013

MakerBot and Autodesk announced they have signed a definitive agreement to jointly market a combination of 3D design software and 3D printing hardware to engineers, designers, architects, makers, creators, and artists. The agreement will entail the resale of MakerBot® Replicator® 2 Desktop 3D Printers in connection with Autodesk's 123D membership offerings. This collaboration will enable

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connecting MakerBot Replicator 2 Desktop 3D Printers with the Autodesk 123D family of apps, making the process of realizing a user's 3D design through 3D printing on MakerBot Replicator 2 Desktop 3D Printers even easier than before.

Autodesk and MakerBot will work together to help enable users to 3D print a model to their MakerBot Replicator 2 Desktop 3D Printer after creating designs from within the 123D apps. The Autodesk 123D family of apps—which includes [123D Catch](#), [123D Creature](#), [123D Design](#), and [123D Sculpt](#)—provides users with the ability to capture, design and make their ideas, and connect with other makers around the world for support or inspiration. According to MakerBot, the MakerBot Replicator 2 Desktop 3D Printer is its easiest, fastest, and most affordable tool for creating 3D prints, setting a new standard in resolution and accuracy for creating high quality models.

Bre Pettis, CEO of MakerBot, announced the partnership during his Opening Remarks for SXSW 2013, and the companies showcased creatures designed with Autodesk's new 123D Creature iPad app, which were printed on a MakerBot Replicator 2 Desktop 3D Printer at [SXSW Create Presented by Autodesk](#).

“Software is key in showcasing the capabilities of 3D printing, and Autodesk's 123D Creature iPad app is an awesome way to highlight how you can customize a design, make it your own, and print it in 3D on a MakerBot Replicator 2 Desktop 3D Printer,” noted Bre Pettis, CEO of MakerBot. “MakerBot prides itself on setting the standard in desktop 3D printing, and now in working with Autodesk, we are also together, setting the standard in providing the leading 3D design software that is optimized for printing on a MakerBot.”

“Our goal is to continue making 3D printing from our applications simpler and more straightforward, and optimizing the Autodesk 123D family to work with MakerBot printers delivers on this promise by enabling our community to print their creations with greater ease,” said Samir Hanna, vice president of Consumer Products at Autodesk. “Our collaboration will help accelerate the next industrial revolution, and we are excited to work with MakerBot to make this happen.”

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### ***Matereality's DatabasePro Lets Engineers Build Their Own Material Databases***

12 March 2013

Matereality announces the availability of DatabasePro, with which engineers can immediately start organizing their material data collection on a private cloud and apply Matereality's software to help them work with their data. DatabasePro is part of Matereality's 5.0 software release combining the power of Matereality's patented data storage platform with new engineer-focused software that enhances user understanding of material data and relieves the tedium of data manipulations for analytics or pre-processing for CAE.

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The new **DatabaseBuilder**<sup>™</sup> allows users to upload data from any source, whether a test instrument, an Excel sheet, or even an existing CAE material model file. Data can be drawn seamlessly from other certified data sources within Matereality's Global Data Center; users simply copy data into their own private collection where they can suitably tag it with BOM/Project IDs or modify it for their specific use. Data Loading Wizards guide user to error-free loading. In response to a 2010 CARHS Automotive CAE Grand Challenge, DatabaseBuilder even allows users to reverse engineer material data from pre-existing CAE material cards, enabling the data to be re-purposed for other CAE.

Matereality's **DataViewer**<sup>™</sup> is exceptionally powerful for automated visualization and charting, allowing users to easily visualize material data of great complexity. With Analytics, trends and dependencies become immediately apparent. No more tedious Excel charting. There is instant unit conversion, curve data interrogation and even a one-click export to Excel. Share and Workgroup features allow for rich "you see what I see" collaboration for data and CAE models.

The **CAEModeler**<sup>™</sup> is a pre-processor that draws out relevant data from a database and converts the raw data into CAE material parameter input files. Users can spend more of their time evaluating the data fit and refining it, than on basic input and data transformation. The CAEModelers are produced in cooperation with Matereality's partners, ANSYS, Autodesk, ESI, LS-DYNA, Moldex3D, SiemensPLM, SIMPOE, Simulia, Solidworks, with the material database integrated within many partner CAE products. Material models export seamlessly into partner software and most common material models are supported. Edits and updates of material models are easy, and can be saved along with raw data. CAEModelers are kept up to date and compatible with current and legacy CAE software versions.

With Release 5.0, Matereality now provides a complete support framework to assist engineers and enterprises with their material data needs. Individuals can buy access to the Global Data Center or collect their own material data with Personal Material DatabasePro. Design and development groups can upgrade to Workgroup Material DatabasePro, a collaborative private cloud where members access their own data as well as the group's data. All Workgroup-relevant data is controlled and always available, regardless of vacation or personnel changes.

"Engineers and product developers no longer need to use Excel to process and store material properties while they wait for their enterprises to make a material database decision. Constructing a material database is no longer a six-figure budget item. The process is straightforward and there is little maintenance required," says Renu Gandhi, VP, Matereality.

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## ***New Integration Node with STAR-CCM+ Optimate add-on***

13 March 2013

modeFRONTIER's collaborative optimization environment is now available for CFD engineers working with STAR-CCM+ owing to the new integration with CD-adapco's Optimate add-on.

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This easy-to-use integration between modeFRONTIER and Optimate works just as well for single or multi-objective optimization studies, and can be used for cases where the geometry comes from the STAR-CCM+ 3D-CAD Modeler, or from external CAD programs such as CATIA, NX or PRO-E.

The advantages of this new integration are highlighted in the case study titled Multi-Objective Optimization of a Boomerang Shape using modeFRONTIER & STAR-CCM+, to be presented on March 19th at the [STAR Global Conference 2013](#) in Orlando (FL).

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## ***Tata Technologies Opens All-New North American Engineering and Innovation Center in Troy, Mich., Reveals eMO Commercial Variant***

12 March 2013

[Tata Technologies](#) announces the opening of its all-new North American Engineering and Innovation Center in Troy, Mich. The 10,000 square foot facility, located at 800 Tower Drive, Suite 200, in Troy, Mich., is currently staffed with 60 engineering professionals and the company expects to increase that number to 100 by December 2013.

The new Engineering and Innovation Center is the North American home to the Tata Technologies Vehicle Programs Development (VPD) Group, headed by Kevin Fisher, President – Vehicle Programs Development. Fisher’s home office is located in the new center. The VPD Group is responsible for the development of the Tata Technologies eMO (electric MObility) landmark EV study revealed at the 2012 North American International Auto Show in Detroit, in January of last year. The VPD Group supports automotive OEMs worldwide from metro Detroit and three other automotive centers of excellence in Coventry (UK), Pune (India), and Stuttgart (Germany).

### **Industry/Media Open House – eMO Variant Reveal**

Fisher and the VPD Group will host an Open House for industry media and other guests on Thursday, March 14, from 10 a.m.-2p.m., providing demonstrations of Tata Technologies’ thought-provoking initiatives for the current and future global automotive landscape – including the reveal of eMO-C, an all-new variant of eMO, aimed at a specific white space in the commercial market.

“We studied the global commercial market, analyzed the competition and emerging technology trends, and evolved the eMO to produce a compelling, best-in-class commercial concept,” Fisher said. “We’re looking forward to revealing eMO-C to the media and to the public on March 14.”

**To RSVP** for the Engineering and Innovation Center Open House, contact Daniel Saad, Tata Technologies Director of Communications – NA by [clicking here](#).

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## ***Tekla Announces New Release of Tekla Structures***

14 March 2013

[Tekla](#) today announced a new version of its 3D modeling software, [Tekla Structures 19](#). Available immediately, Tekla Structures 19 delivers powerful, new features designed to further enable structural engineers, fabricators, detailers and concrete contractors to be more successful, productive and collaborative.

Tekla's software enables the creation and management of accurately detailed, highly constructible 3D structural models, regardless of material or structural complexity. Tekla models can be used to ensure success across the entire building process from conceptual design to fabrication, erection and construction management.

While Tekla Structures 19 benefits many types of building experts, concrete contractors and rebar fabricators specifically will be better equipped to win more bids and dramatically improve the planning, accuracy and overall management and collaboration of concrete pours.

"Our goal is to help revolutionize the building industry by providing the latest advances in 3D modeling software and online collaboration tools for dramatically improved outcomes," said Hans Ehrnrooth, President of Tekla, Inc. "We are excited that today's release of Tekla Structures 19 moves us further toward this goal. It enables and automates the creation, planning, and estimation of detailed building designs as well as superior management and execution during the building phase itself. This results in our customers gaining more project and bid wins through innovative design while minimizing errors and maximizing efficiency and productivity."

Tekla Structures 19 directly benefits the construction industry with new modeling, tracking, interoperability and management features and functionality.

- For concrete contractors, the new version delivers the ability to expertly visualize and quantify concrete the way it will be placed on the construction site. This includes faster and more accurate quantity estimation, increased pour planning accuracy and better site management and execution. The new release allows the importing of PDF drawings directly inside Tekla 3D models and includes new mobile access functionality making it possible to view concrete pours on mobile tablets at the job site, resulting in faster and better on site decisions.
- For detailers, fabricators and structural engineers, Tekla Structures 19 delivers tighter integration with other tools, enabling smoother workflow and collaboration. It also enables users to offer new construction services for a range of structural detailing and integrated project delivery services. Rebar detailers and fabricators can also more accurately estimate, perform faster rebar detailing, export to leading rebar MIS systems and reduce field errors and waste.
- Tekla User Assistance and Online Industry Forum: In conjunction with the new release, Tekla has launched a new, online forum that allows anyone to learn about Tekla software, benefit from

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industry discussions as well as access live and interactive Tekla user assistance.

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