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## Acquisitions

### *3D Systems to Acquire Robtec*

16 April 2014

[3D Systems](#) announced today that it entered into a definitive agreement to acquire Robtec. Headquartered in Sao Paulo, Brazil, Robtec is the largest Latin-American additive manufacturing service bureau and the leading 3D printing and scanning products distributor in the region. Under the terms of the definitive agreement, 3DS will acquire 70% of the shares of Robtec at closing and the remainder of the shares on the 5<sup>th</sup> anniversary of the closing. The terms of the transaction have not been disclosed. The transaction provides 3DS with the strongest possible platform for its Quickparts fast-turn, custom manufacturing expansion plans in Latin America and multiplexes its in-region 3D printing and additive manufacturing reseller coverage.

Robtec brings to 3DS two decades of additive manufacturing service bureau experience with substantial production capabilities that are rooted in regional infrastructure and capacity and supported by long-term, key relationships with leading Latin American industrial companies. The transaction is expected to be completed within the next 90 days, subject to customary closing conditions. It is expected to be immediately accretive to 3DS' cash generation and to contribute to its non-GAAP earnings per share within the first 12 months after closing.

“We believe that the strong strategic and cultural fit between our companies, combined with Robtec’s on-the-ground additive manufacturing service bureau capabilities, expanded channel coverage and deep automotive and aerospace customer relationships could present significant benefits for our customers, sizeable growth opportunities for us and greater value for our shareholders,” commented Avi Reichental, President and CEO, 3DS.

Recognized as the most trusted and knowledgeable Latin American 3D printing technology resource to the manufacturing sector, Robtec delivers best-in-class rapid prototyping and custom manufacturing services and brings established, long-term relationships with leading aerospace and automotive

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companies like Embraer, Siemens, Volkswagen, Fiat, CenPra, Visteon and Mercedes.

“This is the right time for us to add a company of Robtec’s reputation, experience, growth record and scale in Latin America,” continued Reichental. “With key operations in Brazil, Argentina, Chile, Uruguay and Mexico, proven service bureau operations and leading printing and scanning distribution activities, Robtec represents the cornerstone of our Latin American expansion plans.”

“We are excited to become part of 3D Systems, a leading provider of the most complete portfolio of 3D content-to-print solutions available today,” said Pablo Elenter, President, Robtec. “We plan to leverage our collective knowledge and experience for the benefit of our customers by building stronger local presence and immediately delivering the full range of 3DS products and services throughout the region.”

## **Strategic and Financial Benefits**

- Creates strategic Latin American sales and service platform to drive accelerated adoption of entire 3DS design-to-manufacturing solutions
- Provides 3DS with significant in-region additive manufacturing service bureau capabilities, knowhow and customer relations
- Expands 3DS’ global Quickparts full service offerings reach and ability to deliver the latest advanced manufacturing solutions and capabilities
- Multiplexes 3DS’ Latin American 3D printer reseller channel activities with locations in Brazil, Argentina, Chile, Uruguay and Mexico
- Expected to be immediately accretive to cash generation and contribute to non-GAAP earnings per share within first 12 months after closing

Immediately after closing, the company plans to transform Robtec operations into 3D Systems Latin America and expand its offerings to include 3DS’ entire range of 3D design and manufacturing solutions throughout the region.

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## ***Tekla Acquires Field3D Business from SVS Innovations***

14 April 2014

The Building Information Modeling (BIM) software provider Tekla has acquired SVS Innovations’ (SVSi) construction software business and its advanced Field3D mobile technology. The acquisition further strengthens Tekla’s position in mobile BIM applications development.

Field3D is an easy-to-use 3D collaboration software solution for BIM that works on mobile devices, enabling stakeholders in a construction workflow to access complete 3D model information for an entire building on smartphones and tablets.

“One of Tekla’s key objectives is to extend BIM’s reach from the design office to the field, and Field3D technology will help us achieve this goal,” said Mr. Risto Rätty, Executive Vice President of Tekla Corporation and General Manager of Trimble Buildings Structures Division. “Field3D technology focuses on solutions for mobile operating systems and the acquisition further strengthens Tekla’s position as a premier provider of advanced BIM technology.”

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Both Tekla and SVSi offer technology that smoothly manages very large amounts of information. Tekla's constructible, accurate models can represent some of the largest, most complex structures with detailed construction information, while Field3D can fluently manage 3D models on mobile devices regardless of their size. The solutions also share an open approach to BIM. Through their support for IFC and other 3D modeling file formats, they work with a wider choice of modeling solutions.

"Field3D is now part of a larger offering, and we believe that is the right way forward for our clients. Tekla's global market position enables users to quickly deploy the benefits of this advanced technology. This acquisition demonstrates the value of our mobile 3D platform, and now we can continue leveraging this innovative technology to other industries," said Mr. Antti Nurminen, CEO of SVS Innovations.

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## Company News

### ***AEC Digital Solutions LLC Restructures and Expands Markets***

15 April 2014

AEC Digital Solutions LLC, a BIM services provider to AEC firms, recently announced a corporate restructuring in an effort to expand efforts to provide BIM management services to clients in the United States and the United Kingdom. The company's premium digital construction, Scan-to-BIM and content creation services continue to grow in demand in both the US and the UK markets, with an increasing number of clients opting for dedicated workshare studios as construction markets in both countries recover and gather momentum. The company is one of the pioneer firms who provides BIM services on Bentley AECOsim products, besides Revit and CAD Duct software.

CEO Alain Waha departed recently. The company wishes him well as he pursues his new career.

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### ***Altium Joins AUTomotive Open System ARchitecture***

17 April 2014

Altium Limited has joined the [AUTOSAR](#) (AUTomotive Open System ARchitecture) development partnership. TASKING is a provider of compiler solutions to software developers within the micro-controller market. TASKING's development tools are regarded by high-end suppliers, particularly within the automotive industry, to program micro-controller based powertrain, driver assistance and safety related applications worldwide.

AUTOSAR is a worldwide development partnership of car manufacturers, suppliers and other companies from the electronics, semiconductor and software industry. The primary objective of AUTOSAR is to create an open, standardized software architecture for the automotive industry.

As an Associate partner, Altium will be sharing its extensive experience and knowledge of software development standards, processes and methodologies with the AUTOSAR community.

Altium's offering for the automotive industry comprises the TASKING suite of embedded tools and the

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Altium Designer integrated design environment. The TASKING embedded tools play an important role in the automotive ecosystem. They are used in different levels of the supply chain, starting within the OEMs and spreading into the wide market of automotive suppliers.

“Altium is working with the world's leading automotive manufacturers and truly appreciates the importance of international software standards. Our alignment with AUTOSAR will enable us to continually evolve our product offering in line with open industry standards,” states Franz Maidl, Managing Director Global TASKING Business at Altium.

The AUTOSAR development partnership is an additional effort to provide high quality TASKING tools and services especially for the automotive market. It is combined with activities around functional safety with the just recently launched [Automotive Safety Support Program for ISO 26262 Certification](#) playing a major role.

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### ***ANSYS Honors Students from Pune University and Vellore Institute of Technology with Simulation Award***

17 April 2014

For the fourth consecutive year, ANSYS congratulated two teams competing in the BAJA SAEIndia all-terrain vehicle (ATV) development contest by presenting them with an Engineering Simulation award. Team Nemesis from the College of Engineering at Pune University and Vellore Institute of Technology's Team Kshatriya successfully leveraged ANSYS simulation for their individual ATV designs. Teams don't typically have the time or funds to build multiple prototypes, so employing engineering simulation fosters increased design reliability and performance at a low cost, within tight deadlines.

Specifically, Team Nemesis used ANSYS® Mechanical™ to analyze its vehicle's suspension components, chassis, gearbox casing and brake pedal to reduce the weight of its ATV while ensuring maximum strength. Also taking advantage of ANSYS Mechanical, Team Kshatriya focused on incorporating a lighter and stronger alloy for its roll cage and used computational fluid dynamics technology to optimize the performance of its ATV components as a system.

"ANSYS instituted the Engineering Simulation award in 2010 to recognize student competition teams and organizations who take advantage of simulation to optimize their designs, whether it's an ATV or formula-type race car," said Murali Kardiramangalam, academic program director at ANSYS. "These contests are crucial to facilitate learning simulation outside of the classroom and by providing software, training and support to these teams, ANSYS is helping to nurture the next generation of innovative engineers."

BAJA SAEIndia is a national competition organized by the Society of Automotive Engineers (SAE). This year's event was held at NATRIP in Pithampur, Indore, India, with 327 teams officially registered and only 125 teams qualifying for the final race.

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## ***Autodesk Certifies GibbsCAM for Autodesk Inventor 2015***

17 April 2014

Gibbs and Associates announced today that GibbsCAM has been certified for [Autodesk Inventor](#) 2015 3D mechanical design software under the Autodesk Certified Apps Program, marking the fourteenth consecutive year that GibbsCAM has been certified under the program.

Digital prototyping with Autodesk Inventor software helps manufacturers to digitally design, visualize and simulate how a product will work under real world conditions before it is built. GibbsCAM directly opens Autodesk Inventor part models, allowing CNC programmers and machinists to easily and readily program machine tools from the models, extending cost reduction and efficiency through the programming and machining processes. Certification demonstrates that the product is of high quality and up to date, and that it provides the highest level of interoperability with Autodesk Inventor software.

“We are gratified for our continuing partnership with Autodesk and for Autodesk’s recognition of GibbsCAM interoperability with Autodesk Inventor,” said Robb Weinstein, Senior Vice President of Sales and Strategic Planning of Gibbs and Associates. “Our commitment to joint customers around the world remains unchanged, despite changing marketplace dynamics, as we continue to optimize the CNC-programming power and flexibility GibbsCAM provides Autodesk users.”

“We are very pleased to have Gibbs and Associates affirm their continuing dedication to interoperability with Autodesk Inventor through Inventor certification for GibbsCAM,” said Carl White, Senior Director, Manufacturing Engineering, Autodesk. “Having companies like Gibbs and Associates as partners is highly beneficial to our manufacturing customers.”

GibbsCAM offers seamless integration with Autodesk Inventor, by directly reading Autodesk Inventor IPT (part model) files, preserving all color information, CAD and hole features and attributes assigned within Inventor to provide continuity in recognizing and communicating part and feature attributes. Alternatively, with the GibbsCAM Autodesk Inventor Add-in, the Inventor user can transfer files directly into GibbsCAM with the “Transfer to GibbsCAM” menu option of Inventor software running on the same workstation. Once machining processes are defined in GibbsCAM, they are automatically updated when the Inventor model is revised.

In addition to its perennial certification of GibbsCAM for Autodesk Inventor, Gibbs and Associates offers a GibbsCAM Plug-in for [Autodesk Vault](#) to allow interaction between GibbsCAM and the Autodesk data management software, is an authorized member of the [Autodesk Developer Network](#) and is an Autodesk Authorized Independent Software Vendor.

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## ***Autodesk Platinum Partner, Microsol Resources Announces New Boston Area Office***

18 April 2014

Microsol Resources Corporation is pleased to announce the opening of its third office location in Charlestown, Massachusetts. By adding a Boston-area office to its existing offices in New York and Philadelphia, Microsol Resources expands its abilities to support firms in the Northeast of the United States.

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Founded in 1986, Microsol Resources is an Autodesk Platinum Partner focused on helping customers design, simulate and analyze their ideas, increase operational efficiencies and maximize their return on investment in software solutions. It does this by offering best-in-class solutions from pre and post-sales support to consulting, training, implementation, and customization. Microsol Resources was also recently designated as the Autodesk Partner of the Year for 2014.

"With the opening of a local area office we seek to expand our ability to support the growing number of clients we have in New England," said Emilio Krausz, President, Microsol Resources. "We believe that our philosophy and our concept of what it means to be a partner to our clients will enable us to continue our growth in New England. We plan to continue to demonstrate that we have empathy with and understanding of our customers' business needs, pain points, and goals."

"Microsol Resources not only understands our firm's software needs, but also understands the design industry as a whole. They have many suggestions on how we can improve and speed up our workflow process to help us be more efficient, and their ability to meet extremely demanding technical support needs of our firm is crucial to our company," said Tammy Hafen, the IT Director at Tsoi/Kobus & Associates. "They are a prime example of quality and dependable customer service for our CAD and BIM support needs. We are and have been very pleased with Microsol Resources and their team. We would not hesitate in recommending them!"

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## ***CADENAS PARTsolutions Named Top 10 Most Promising Engineering Solution Providers by CIO Review Magazine***

17 April 2014

CADENAS PARTsolutions has been named one of the Top 10 Most Promising Engineering Design Solution Providers by CIO Review magazine for 2014. The engineering software and services provider was selected for their industry leading Standard Parts Management (SPM) platform, which enables manufacturers to better manage their "Big Data" across the supply chain - including critical industry standard, supplier standard and internal standard parts data.

CIO Review is a platform for high level executives to share their insights, helping build the business ecosystem while aiding technology and business leaders with analysis of IT trends. Their goal is to provide a better understanding of the role that enterprise solutions play in achieving business goals.

### **CIO Review's Selection Criteria**

Over the past 3 months, CIO review looked at hundreds of solution providers that are at the forefront of tackling engineering design challenges with cutting-edge strategy and solutions.

CIO Review evaluated a vendor's capability to fulfill the needs of the engineering design sector through offering state-of-the-art CAD/CAM solutions that enable engineers to deliver projects which are stronger, better and more efficient.

### **Strategic Parts Management for Manufacturing Enterprises**

At times, Big Data gets so large and complex, that it becomes difficult to process using on-hand database management tools or traditional data processing applications. The challenges include capture, curation, storage, search, sharing, transfer, analysis and visualization.

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Manufacturers have invested heavily in their data infrastructure, pouring millions into their Product lifecycle Management (PLM), Enterprise Resource Planning (ERP), Computer-Aided Design (CAD) and other critical supply chain systems. For manufacturers, difficulty lies in managing all that data, which is continually being pumped into these environments.

“Your systems are only as good as the data in them,” says Tim Thomas, CEO of CADENAS PARTsolutions. “Data needs to be clean, accurate, up-to-date and easily accessible across your organization. That’s often easier said than done.” Thus, Big Data bottlenecks cost manufacturers billions each year. That’s where CADENAS PARTsolutions comes in.

CADENAS PARTsolutions has developed a Strategic Parts Management (SPM) platform to better manage standard parts and their usage as defined by business rules across various sectors, and not just in engineering. SPM serves as the missing link in Supply Chain Management (SCM) strategy by connecting manufacturer’s systems (ERP, PLM, CAD) to their supplier, industry and company standard parts.

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## ***CADsoft Consulting Announces Partnership with Topcon Positioning Systems***

15 April 2014

[CADsoft Consulting Inc.](#), today announced they have become a distributor of the [Topcon](#) line of robotic technologies for the construction industry, with a direct interface to BIM.

Topcon Positioning Systems, a leader in precision positioning technology and solutions, has designed their innovations to allow building and civil infrastructure construction customers to form a tighter, more seamless workflow that will increase on-site worker productivity, enhance jobsite safety, and improve quality control.

Additionally, Topcon and [Autodesk, Inc.](#), leaders in cloud-based design and engineering software, [previously announced](#) they will collaborate to allow products within Autodesk’s leading design and construction software portfolio for BIM to more efficiently interact with the Topcon on-site field positioning hardware. This provides greater interoperability between Autodesk’s design solutions and Topcon field positioning hardware to connect workflows between the office and the field, utilizing robotic total stations for construction positioning. As an Autodesk Authorized Gold Partner, CADsoft Consulting has the expertise to provide a complete solution and create job site efficiencies by helping contractors more easily connect BIM output to field based implementation. These efficiencies reduce contractor error and re-work while speeding-up the overall installation process.

“By selecting to partner with Topcon, CADsoft Consulting continues to expand our innovative and advanced technology offerings to meet customer needs,” said Lisa Duncan, Principal of CADsoft Consulting. “Our customers are embracing BIM and have an immediate need to fit Topcon products into their BIM project workflows to increase job site and project accuracy. This can be quickly translated into real opportunities and business for our customers moving forward.”

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## ***Delcam Extends Free Computer Offer through April***

14 April 2014

Following an extremely positive response to its free hardware offer at last week's MACH exhibition, Delcam has extended its offer include a free PC with all orders for more than £10,000 of the company's software until the end of April. The offer still applies across Delcam's complete range of CAM programs; PowerMILL for high-speed and five-axis machining, FeatureCAM for feature-based production machining, PartMaker for programming turn-mill equipment and Swiss-type lathes, and ArtCAM for artistic manufacturing applications such as engraving and woodworking.

Organisations that already use Delcam's CAM systems will receive the free PC if they place orders above £10,000 for extra seats or for any of the company's supporting software, including PowerSHAPE for data translation, reverse engineering and tooling design, or PowerINSPECT for inspection of parts or tooling against 3D CAD data.

"This year's MACH exhibition was even more successful for Delcam than the 2012 show," explained Steve Creron, General Manager of Delcam UK. "As well as taking many orders on the stand, we carried out demonstrations to more than 250 companies that are looking to invest in more powerful CAD/CAM software. With our extended offer of free hardware, we are hoping to complete a record month for UK software sales during April."

"Our latest generation of software takes advantage of the many enhancements in the latest PC configurations, such as 64-bit technology, multi-threading and background processing," added Mr. Creron. "With their free PC, we can be sure that our customers will be gaining the maximum benefit from our software, with faster calculation times and increased productivity."

The free PC will be supplied with Windows 8 Professional 64 Bit operating system, Intel Core i7-4770K 3.5 GHz CPU, NVIDIA Quadro K600 graphics card, 16GB RAM, 256GB solid state drive, AVG anti-virus, monitor, keyboard and mouse, plus a three-year warranty.

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## ***ICAM Offers Factory Approved Post-Processing & Simulation for MODIG Machines***

14 April 2014

ICAM Technologies Corporation (ICAM) has entered into a Strategic Marketing Agreement with Modig Machine Tool (Modig) from Virserum, Sweden. This agreement provides ICAM access to Modig's proprietary machine and controller information and other machine related specifications.

The sharing of technical knowledge and other resources allows customers to benefit from the rapid and successful integration of factory tested and proven post-processors and machine simulators for Modig's full line of machine tools for single CAM or multi-CAM manufacturing environments. Modig's sales team will also be equipped with ICAM demonstration software that will allow them show all advanced machine features and functions to prospects, virtually, from their laptops.

This agreement also enables customers to benefit from ICAM's 42 years of NC post-processing experience with multi-axis machining applications including path planning, tool-tip programming,

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coordinate frame transformations, NURBS interpolation and arc fitting of point-to-point data.

Additionally, ICAM's integrated machine tool simulation solution enables NC programmers to graphically simulate and test programs for collisions easily and automatically during post-processing, before the machine code is implemented within the production environment.

**MODIG's Dynamic Clamping Assembly Driven by ICAM's Integrated Post-Processor & Simulation**

David Modig, President at Modig Machine Tools says, "ICAM's unique post-processing and simulation products allow our customers to take full advantage of our machine's capabilities. And with ICAM's Virtual Machine, customers can graphically simulate and test their NC programs during post-processing; thereby, minimizing costly prove-outs on the shop floor."

"ICAM is strongly committed to the European aerospace market by providing leading-edge post-processing and simulation solutions," says John Nassr, ICAM's President. "With ICAM and Modig's strengthened relationship, customers can take comfort in knowing that they will have easier access to Modig's highly productive and accurate machines in single or multi-CAM environments."



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### ***Nemetschek Vectorworks & Synchro Software Ltd. Join Forces to Support Open BIM***

15 April 2014

Nemetschek Vectorworks, Inc. and Synchro Software Ltd. have joined forces to provide truly open and flexible collaboration between architectural modeling and construction planning BIM tools. Both companies are committed leaders to the proliferation of open BIM workflows in design and construction and work to improve the efficiency of the industry through the successful implementation of open standards-based data exchange. In addition, both companies support the Industry Foundation Classes (IFC) file format as an interoperability solution for their customers.

"We believe systems interoperability is as important as supporting 3D data in our 4D BIM for construction planning and scheduling solution," said Tom Dengenis, CEO of Synchro Software Ltd. "Our support for IFC dates back to 2008. We decided back then for clear strategic reasons to focus on Vectorworks, the clear leader in IFC, to guide our import and synchronization capabilities. From the start, and to this day, we singularly focus on developing and testing our capabilities with Vectorworks as the authoring system."

"A core tenet of Vectorworks is to provide designers with creative freedom, and interoperability is essential as those designers work with other collaborators to transform their creative visions to a built reality," said Jeremy Powell, director of product marketing at Nemetschek Vectorworks, Inc. "We're excited to work with Synchro Software, a company that is clearly committed to supporting open standards for the benefit of all professionals involved in the design and construction process. We look forward to continued collaboration with Synchro in the future as we strengthen our partnership."

One recent example of a large BIM project using Synchro and Vectorworks software is the construction of two metro subway stations in Sao Paulo, Brazil. The Consortium Heleno & Fonseca and the TIISA made use of BIM technology as a support for studies and planning of the stations Eucaliptos and Moema, both part of the expansion of line five of the Sao Paulo metro. Vectorworks Architect software was used for the generation of the BIM models of the stations and for accurate estimations of volumes and areas of different building elements of the 3D models. Synchro was used to associate the elements

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of the model to the schedule activities, as well as to generate the 4D analysis.

Some of the resulting benefits of the 4D analysis included more speed and accuracy in the generation of the studies of the construction schedule alternatives, greater versatility and speed in decision-making, the creation of informative presentations of the work for external stakeholders through short videos, and visualization of the structures and equipment in different phases of the project.

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### ***New 3D Community Website from TraceParts Inc.***

15 April 2014

TraceParts Inc. announces the launch of 3DeXchange, [3DX-US.COM](http://3DX-US.COM), a new community site for anyone who creates in 3D. This new professional website brings together tech-savvy design professionals, suppliers, product content, and ideas in a collaborative online community.

“Designers and engineers come to 3DX to share 3D designs including those suitable for 3D printing as well as to access to hundreds of millions of certified 3D product models,” said Bob Nofle, President, TraceParts Inc. “It’s a site where design professionals can connect with each other to exchange ideas, collaborate on design challenges, publish their models and credentials, and more,” said Nofle.

“Suppliers who create a free microsite on 3DX get their company and products in front of 8.5 million users through the TraceParts publishing network of web sites,” said Mike Antell, National Sales Manager, TraceParts Inc. “In addition to free self-publishing, we offer a number of cost effective 3D online marketing programs to address their digital marketing strategies,” said Antell.

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### ***Siemens Makes Nearly \$660M Investment in Software Grants for Massachusetts Schools to Educate and Train Workers for Manufacturing Industry***

16 April 2014

Today, Siemens announced nearly \$660 million of in-kind software grants for manufacturing programs at vocational high schools, technical community colleges and universities throughout Massachusetts. Students will now have access to the same Siemens’ product lifecycle management (PLM) software used throughout the global manufacturing industry to design, develop and manufacture some of the world’s most sophisticated products in a variety of industries, including automotive, aerospace, consumer products, medical devices, machinery, shipbuilding, apparel and high-tech electronics.

The series of in-kind grants was established as a result of an industry need for skilled workers identified through the [Massachusetts Manufacturing Extension Partnership](#) (MassMEP) and the [Manufacturing Advancement Center Workforce Innovation Collaborative](#) (MACWIC), an alliance of next-generation companies working to provide employer-led workforce training initiatives. Siemens Metals Technologies (MT) business, with its advanced manufacturing facility located in Worcester, is a founding member of MACWIC and serves on the steering committee. The academic partnerships are designed to support MACWIC’s Applied Manufacturing Technology Certification Pathway, an

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advanced manufacturing certification program.

“The manufacturing industry in America is on the rise and is being transformed by a software revolution that is enhancing productivity, increasing efficiency and speeding time to market. In Massachusetts it’s the top contributor of gross state product, employing more than 250,000 people,” said Chuck Grindstaff, president and CEO, Siemens PLM Software. “This revolution requires a highly trained workforce. Thanks to support of MassMEP, MACWIC and Siemens MT Worcester, Massachusetts schools will integrate world-class PLM technology into their curriculum, so that students are even better prepared for high quality manufacturing jobs.”

Thirteen academic partners throughout the state are receiving in-kind software grants to support curriculum and training programs including: Worcester Polytechnic Institute (WPI), Fitchburg State University, Quinsigamond Community College, Berkshire Community College, Mount Wachusett Community College, North Essex Community College, MassBay Community College, Blackstone Valley Regional Vocational Technical School, Assabet Valley Regional Technical High School, Tantasqua Regional Senior High School, Greater New Bedford Regional Vocation High School and Worcester Technical High School. MassMEP, part of the national NIST MEP system, will provide advanced training on Siemens PLM software to automate manufacturing processes with equipment on a plant floor.

“Formerly, competition in manufacturing was determined by capital investment and low labor costs. Today’s manufacturing competitiveness is being determined by a skilled and technology enabled workforce capable of creating value in both processes and products,” said Jack Healy, Director of Operations for MassMEP. “Educating people for this type of workforce has always been a race between education and technology. Siemens through this initiative is allowing our state’s education system to catch up in this race by providing students the opportunity to participate in the unlimited challenge that will be offered for the next generation of manufacturers.”

“In partnership with Mass MEP and the Massachusetts community colleges, Siemens software leverages the role of education in driving the state’s advanced manufacturing industry,” said Quinsigamond Community College President Gail E. Carberry. “Our goal is to create the most productive advanced manufacturing workforce in the nation.”

“With this software grant to educational institutions, Siemens is demonstrating the farsighted vision to invest in development of a workforce educated for the next phase of manufacturing practice in the United States – one in which advanced software at the hands of smart workers provides value through highly flexible processes and instantaneous response for customization through automated manufacturing. WPI is glad to be a partner in this effort.”

The Patrick Administration is committed to supporting the growth of advanced manufacturing in Massachusetts, an industry that is expected to fill 100,000 jobs in the next decade in the Commonwealth and offers careers in a sector with an average annual salary of \$75,000.

“Advanced manufacturing is growing in Massachusetts, and is an area of critical focus for us,” said Governor Deval Patrick. “I thank Siemens for their wise investment in creating a stronger Commonwealth.”

As software plays an increasing role in the next era of manufacturing, students and faculty will use the software in assignments and research related to computer-aided-design, engineering simulation, industrial design, digital manufacturing and manufacturing management. The in-kind grant will also help to expand and modernize manufacturing curriculum in design and process technologies. By using the software in their course work, academic and research projects, students can develop the advanced

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skills sought after by the more than 77,000 global customers who utilize Siemens' software and technology solutions. This includes nearly 150 companies throughout the Boston and Worcester regions and state of Massachusetts who rely on Siemens' PLM and CAD software including employers such as: Reebok, Textron, Raytheon and Midstate Berkshire.

"Manufacturing is the most sophisticated, forward-looking and innovative business function in the world today and we need to let students, parents and administrators know what these jobs look like and what students need to learn in order to get them," said Eric Spiegel, president and CEO, Siemens USA. "This partnership can serve as an economic catalyst for the region, the state and the country."

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## ***Stratasys Announces Winners of 2014 Extreme Redesign 3D Printing Challenge***

11 April 2014

[Stratasys Ltd.](#) announced the winners of its 10<sup>th</sup> annual [Extreme Redesign 3D Printing Challenge](#).

This global contest offers students in middle school, high school, college, and art and architecture programs the opportunity to redesign an existing product or to create a new product that improves how a task is completed.

Entries are evaluated based on creativity, being mechanically sound and being realistically achievable. Industry experts Todd Grimm of T.A. Grimm & Associates, Patrick Gannon of Thogus/RP+M, Tim Shinbara of the Association for Manufacturing Technology and Rachel Park of *3D Printing Industry* served as judges. The following designs were selected as winners. Visit the Stratasys website for descriptions, photos or videos of the [winning designs](#).

### **College Engineering**

First place: Rabidus Arachnid; Andreas Zailo and Nathan Pacholk, Okanagan College - Kelowna; British Columbia, Canada

Second place: Up-Right; Eddy Kwok and Lily Huang, Ryerson University; Toronto, Ontario

Third place: Cane[a]ction; Tiffany Tse and Kate Gonashvili, Ryerson University; Toronto, Ontario

### **Art and Architecture**

First place: Xiphias Concept Chassis; Wallace (Penn) Scott; Lehigh University; McLean, Va.

Second place: Parametric Facade Design of High-Rise Tower; Ka Ian Ng; City University of Hong Kong; Hong Kong

Third place: 3D Printed Pintograph; Max Meaker; Western Washington University; Renton, Wash.

### **Middle/High School Engineering**

First place: Socket Gun Attachment; Marco Angione; Catholic Central High School; Windsor, Ontario

Second place: Swing-down Wheels; Kyle Nevling; Hinsdale Central High School; Hinsdale, Illinois

Third place: Downhill Mountain Bike Seat; Daniel Linkinhoker; Montville High School; Oakdale, Conn.

### **Extreme Sports Bonus Category**

JetFlag (For a Kayak); Franklin Ostrow; Grand Haven High School; Grand Haven, Mich.

# CIMdata PLM Industry Summary

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Stratasys is awarding first place winners a \$2,500 scholarship, with second-and third-place winners both receiving a \$1,000 scholarship. The instructor of the first place winner in each category receives a demo 3D printer to use in the classroom for a limited time. Visit the Stratasys website for video, photos and descriptions of the [winning designs](#).

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## ***Vectorworks Architect Software Wins a 2014 Architizer A+ Award***

17 April 2014

Nemetschek Vectorworks, Inc. announces that its architectural design software, Vectorworks® Architect, received the Popular Choice Award in the 2014 Architizer A+ Awards' Products +Apps category. Earning such recognition through a popular vote validates the Vectorworks program as a preferred solution by the design community.

Now in its second year, The Architizer A+ Awards are the definitive global architectural award program with 60+ categories. More than 200 judges select category winners and nominate five finalists within each award category. Those nominees are presented online, where design enthusiasts around the globe vote for their favorites. Winners like Vectorworks Architect software are honored alongside projects chosen by the jury.

“We are thrilled to receive an Architizer A+ Award and the vote of confidence from the global architecture community that it represents,” said Jeremy Powell, director of product marketing at Nemetschek Vectorworks. “Our loyal, renowned and award-winning customers repeatedly tell us how much they rely on Vectorworks Architect’s robust, all-in-one capabilities to work efficiently, accurately and win more business. Having them validate those sentiments with their votes is gratifying and illustrates that the design community values the creative freedom that Vectorworks provides.”

Vectorworks Architect software allows users to maintain creative freedom while making it easy for everyone involved in the project to efficiently work together. It contains robust BIM functionality, great documentation and intelligent tools, along with the flexibility to design in 2D or 3D without restrictions. The program’s powerful Parasolid® 3D modeling engine tackles complex models. Plus, BIM capabilities help streamline costs, analyze materials and increase energy efficiency while staying true to your design concept. Visit <http://www.vectorworks.net/architect/> to learn more about Vectorworks Architect software.

Several other category winners were chosen by a jury panel, which included such industry luminaries as Charles Renfro, Bjarke Ingels and Tom Kundig, as well as people outside architecture like Tony Hsieh (CEO, Zappos), Yves Behar (Fuseproject), John Edelman (CEO, Design Within Reach), Cameron Sinclair (Architecture for Humanity) and Barry Bergdoll (MoMA).

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## ***ZW3D European Partner Conference 2014: Exploring New CAD/CAM Values in Europe***

15 April 2014

[ZW3D](#) successfully hosted this year's European Partner Conference (EPC) in Prague, Czech Republic, between March 21 and March 22. ZW3D brings together dozens of old, new, and potential European partners to share insights on CAD/CAM development and especially to explore the product value that ZW3D can bring for customer needs.

## **ZW3D CAD/CAM in Europe**

Ever since the acquisition of VX CAD/CAM in 2010, ZWSOFT has marched into 3D CAD/CAM area with soaring ZW3D business and established a powerful channel network of around 50 partners in Europe alone. Along with its professional partners, ZW3D has delivered great CAD/CAM solutions to European markets and earned trust of customers like [Ogle Models and Prototypes](#), [Dr. Höhn](#), [GoTools](#), [Brightwake](#), etc., witnessing its wide application in various industries like automotive equipment, machinery, electronics, consumer products, and so on.

This year at EPC 2014, ZW3D gathered its excellent Europe partners from 12 European countries like Germany, France, UK, Portuguese and Poland to further explore the values of recently released [ZW3D CAD/CAM 2014](#), to share ZW3D's application of different industrial solutions, and to discuss marketable business strategies making EPC a top communication platform for great minds in Europe.

"This EPC is truly wonderful and impressive, especially the sharing of ZW3D industrial solutions from experienced partners," one newly-signed partner from the Czech Republic commented, "It enlightens us a lot and broadens our mind in selling this wonderful product."

## **ZW3D CAD/CAM 2014 to Deliver Better Design and Smarter Machining**

The value of ZW3D 2014 has been thrown into the spotlight during the event. Joh Li, R&D Director, gave a thorough review of ZW3D 2014's new values to partners. Key functionalities such as the embedded file translator, improved 2D sheet and newly-developed Tool Path Editor, have gained favorable responses from customers, according to the case sharing from partners. Not only does the latest version of ZW3D fulfill the needs of design professionals in improved modeling experiences, but also lays a foundation for more vigorous CNC Machining.

"The purpose of EPC is to build up a stronger ZW3D channel in Europe," said Felix Gao, Director of ZW3D Overseas Business. "Through a simpler and more intuitive way to interact with ZW3D, we hope our partnership can become closer and more mutually beneficial."

Apart from Europe, a matured high-end market, ZW3D also has held another partner forum in Asia, an emerging mid-market, to nurture a more professional channel capable of providing users first-class support timely.

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## Events News

***Airbus Defense & Space, AREVA, Nissan, Renault & Volkswagen will speak at the ESI Global Forum***

18 April 2014

[ESI Group](#) announces the detailed program of its third ESI Global Forum, scheduled May 21 & 22 in

# CIMdata PLM Industry Summary

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Paris, France. The event will gather ESI customers from various industry sectors and countries around the globe and provide opportunity to share their challenges and achievements. The aim of this event is to help industry leaders implement best practices in Virtual Product Engineering and maximize the related benefits – from increased product performance to cost reduction and reduced time to market.

Alain de Rouvray, co-founder and CEO of ESI Group, will share his strategic vision for Virtual Product Engineering while Eric Daubourg, COO of ESI France, will introduce the impressive list of keynote speakers in the following order:

- Eric Landel, Lead Expert in Numerical Modeling and Simulation, Renault
- Herve Gilibert, Chief Technology Officer, Airbus Defense & Space
- Morello Sperandio, Scientific Director, AREVA
- Toshihiro Araki, General Manager of the Integrated CAE Department, Planning and Advanced Engineering Development Division, Nissan Motor Co. Ltd
- Ralph Sundermeier, Head of the Department for CAE-methods, Volkswagen AG

Following these keynote presentations, the conference will split into dedicated industry sessions that will address in more details the specific challenges and best practices for [Ground Transportation](#), [Aerospace & Defense](#) and [Energy & Power](#).

ESI customers presenting in the [Ground Transportation](#) session will include AP&T (Sweden), Applus + IDIADA (Spain), AUDI AG (Germany), Brno University (Czech Republic), Deutsches Luft- und Raumfahrtzentrum (Germany), Gestamp (France), Honda Motor Co (Japan), Humanetics (Germany), Hyundai Motor (Germany), Jaguar LandRover (United Kingdom), Magna International (United States), Mazda Motor Corporation (Japan), Nissan Motor Co (Japan), Renault (France), PSA PEUGEOT CITROEN (France), Virtual Vehicle Research Center (Austria), Visteon (France), Volkswagen AG (Germany), and West Bohemia University (Czech Republic).

The [Energy & Power](#) session will include speakers from AREVA (France), AREVA NP GmbH (Germany), CEA (France), Creusot Forge (France), HEVS (Switzerland), ONET Technology (France), SL Rasch (Germany), and STMicroelectronics (France).

The [Aerospace & Defense](#) session will include Acoudesign (France), Airbus Defense & Space (France), Airbus Helicopter (France), Dassault Aviation (France), Deutsches Luft- und Raumfahrtzentrum (DLR), Ecole Centrale de Nantes (France), Doncasters (UK), European Space Agency (Netherlands), Expliseat SAS (Netherlands), Hochschule Albstadt-Sigmaringen (Germany), OJSC Aviadvigatel (Russia), PCC Airfoils - LLC (United States), Rolls-Royce (UK), SNECMA (France) and Spirit Aerosystems (UK).

To fulfill the needs of ESI's growing vibro-acoustics user community, [four vibro-acoustics workshops](#) will run in parallel to the aforementioned industry presentations. These workshops will focus on Powertrain Exhaust and Intake, Wind Noise, Cabin Noise and Low Frequency Interior Acoustics.

On the day before [ESI Global Forum](#), a [micro-seminar on hot forming is organized jointly with AP&T](#). That event will focus on virtual hot forming engineering workflows, from customer request to production solution, including material cost estimation, die face design, stamping feasibility and validation, cooling channel validation and Virtual Reality.

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## ***SpaceClaim's Justin Hendrickson Delivers a Keynote Presentation at DEVELOP3D Live 2014***

16 April 2014

SpaceClaim announced today that SpaceClaim director of product management, Justin Hendrickson, has been chosen as a keynote presenter at this year's DEVELOP3D Live, taking place today in Warwick, U.K. Attendees will learn how SpaceClaim is accelerating product design, prototyping and development by taking 3D geometry from the domain of a select few to something accessible to anyone who needs it: in design, simulation, 3D printing, manufacturing - even sales and marketing.

"For years, Big CAD has dictated what engineers' processes looks like, who can work with geometry, and how companies can model, edit or repair in 3D," said Hendrickson. "Engineers no longer need to accept the limits of parametric CAD. SpaceClaim is bringing new innovations to 3D design: in modeling scan data, repairing and editing STL for 3D printing and pioneering real-time collaboration across PC and mobile using new cloud services."

According to Hendrickson, the majority of engineers still accept the limitations of CAD as limits on their flexibility, unnecessarily constraining productivity and innovation by limiting 3D model creation and editing of models to a select few in each organization. Further, the CAD experts typically have limited availability and experience in fields such as analysis and manufacturing. SpaceClaim Engineer and LiveReview, SpaceClaim's new live 3D collaboration system, allow engineers to work in 3D without first becoming CAD experts.

Engineers can visit SpaceClaim's website to begin a trial of SpaceClaim Engineer and LiveReview at: <http://www.spaceclaim.com/en/trial.aspx>.

DEVELOP3D Live 2013 takes place at the Warwick City Arts Centre in Warwick, UK. The free event explored the future of product development technology, tools and strategies.

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## Financial News

### ***Atos: First Quarter 2014 Revenue***

17 April 2014

Atos today announced its revenue for the first quarter of 2014. Revenue was € 2,064 million, representing an organic evolution of -1.8% compared to the first quarter of 2013. Order entry was € 1,671 million leading to a book to bill ratio of 81%. Net cash position stood at € 830 million at the end of March 2014.

Thierry Breton, Chairman and CEO of Atos said: "During the first quarter of 2014, revenue came as expected in the anticipated market conditions. The Group continues to focus on delivering its 2014 objectives for revenue, operating margin, and free cash flow and the teams are working to conclude large or very large outsourcing deals. We are accelerating our mobilization on external growth as part as the three-year 2016 Ambition. Finally, I am impressed by the professionalism and the dedication of Worldline's management team in order to complete the IPO (\*1) as planned while managing the day-to-day operations."

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To view an unabridged version of this press release, visit: [http://atos.net/en-us/home/we-are/news/press-release/2014/pr-2014\\_04\\_17\\_01.html](http://atos.net/en-us/home/we-are/news/press-release/2014/pr-2014_04_17_01.html)

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## ***Infor Investor Call Details Q3 Fiscal Year 2014***

14 April 2014

[Infor](#) today announced that materials related to the Infor investor conference call Monday, April 14, 2014, at 11 a.m. Eastern Time, are provided on the Investors section of Infor's website. Dial-in details for the April 14th investor call are as follows:

- US/Canada Dial-in #: (800) 850-6928
- Int'l/Local Dial-in #: (706) 758-2754
- Conference ID #: 27582695

A digital recording of the conference will be available for replay two hours after the call's completion. To access the recording, guests will use the Dial-in Number and the Conference ID listed below:

- Encore Dial-in #: (855) 859-2056 or (404) 537-3406
- Encore Dates: 4/14/2014 14:00 EST - 5/13/2014 23:59 EST
- Conference ID #: 27582695

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## ***Infosys Announces Results for the Quarter and Year ended March 31, 2014***

15 April 2014

### Highlights:

FY 14 revenue growth doubled to 11.5% in USD terms;

Q4 operating margins expand 50 bps sequentially to 25.5%;

Dividend pay-out ratio increased to 40% of post-tax profits;

FY 15 revenues expected to grow 7%-9% in USD terms

“I am pleased that we have been able to double our growth rate for the full year compared to last year, though performance in the last quarter of FY 14 has been disappointing.” said S. D. Shibulal, CEO and Managing Director. “We have guided for a revenue growth of 7%-9% next year and remain firmly focused on building the growth momentum by making all the necessary investments in our business.”

“Our cash and cash equivalents crossed \$5 billion during the quarter. We have increased the dividend payout ratio to up to 40% of post-tax profits effective FY 14 to enhance returns for our shareholders.” said Rajiv Bansal, Chief Financial Officer.

To view an unabridged version of this press release, visit: <http://www.infosys.com/investors/reports->

<filings/quarterly-results/2013-2014/Q4/Documents/IFRS-USD-press-release.pdf>

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## ***SAP Announces First Quarter 2014 Results***

17 April 2014

SAP AG today announced its financial results for the first quarter ended March 31, 2014.

- **Fast Cloud Growth Ahead of Annual Outlook Growth Range:** Non-IFRS Cloud Subscriptions and Support Revenue Increased 38% at Constant Currencies (32% at Actual Currencies)
- **Strong Cloud Billings Growth:** Non-IFRS Calculated Cloud Billings Increased 36% at Constant Currencies; Annual Cloud Revenue Run Rate Approaching €1.1 Billion
- **SSRS Revenue Growth Ahead of Annual Outlook Growth Range:** Non-IFRS Software and Software-Related Service Revenue Increased 9% at Constant Currencies (4% at Actual Currencies to €3.06 Billion Impacted by Strong Currency Headwinds)
- **Broad Adoption of SAP HANA as the Real-Time Business Platform:** More Than 3,200 HANA Customers, Approaching 1,000 Customers for Business Suite on HANA, Vibrant Ecosystem with More Than 1,200 Start-Ups Developing on HANA Platform
- **Growing Operating Profit and Accelerating Shift to the Cloud:** Non-IFRS Operating Profit Increased 7% at Constant Currencies (2% at Actual Currencies to €919 Million Impacted by Strong Currency Headwinds)

To view an unabridged version of this press release, visit: <http://global.sap.com/corporate-en/news.epx?category=ALL&articleID=22700&searchmode=C&page=1&pageSize=10>

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## ***SofTech Announces Q3FY 2014 Operating Results***

15 April 2014

SofTech, Inc. today announced its third quarter fiscal year 2014 operating results. Revenue for the three months ended February 28, 2014 was approximately \$1.34 million as compared to approximately \$1.46 million for the same period in the prior fiscal year. The net loss for the current quarter was about (\$275,000) or (\$.31) per share compared to \$(14,000) or (\$.01) per share for the same period in the prior fiscal year. EBITDA for current quarter was about \$(93,000) as compared to about \$183,000 for the same period in fiscal year 2013.

Gross margins declined to 57.8% in the current quarter as compared to 77.3% in the comparative quarter in fiscal 2013. In connection with the sale of the CADRA product line in Q2 of fiscal 2014, the Company retained the right to distribute CADRA throughout Europe (except Germany) and to the largest U.S. customer for that technology at margins ranging from 30% to 40%. This reselling activity is responsible for the decline in gross margin in the current quarter. Approximately 39% of the revenue for

## CIMdata PLM Industry Summary

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the current quarter was derived from the CADRA product line as a reseller of that technology.

The increase in the net loss in the current quarter as compared to the same period in fiscal 2013 is primarily due to: 1) non-recurring expenses of approximately \$116,000 of lenders and professional services fees related to the December 2013 loan amendment, and 2) reduced profitability earned when generating revenue from technologies of others as a reseller.

As previously announced, the Company amended its debt agreement during the current quarter in order to adjust for the sale of the CADRA product line. As part of that amendment, the Company paid down \$1.7 million of its debt facility bringing the outstanding debt to its lowest level since 1997. The Company incurred expenses of approximately \$116,000 related to lender and professional fees in connection with this amendment which were expensed as part of SG&A.

“The liquidity provided from the sale of the CADRA product line, as expected, has significantly improved our balance sheet as will the deferred payments of up to an additional \$686,000 from Mentor Graphics not yet reflected as deferred payments on our balance sheet,” said Joe Mullaney, SofTech’s CEO. “Our challenge will be in identifying new opportunities that are compatible with the skill set of our employee group while protecting the value of our existing revenue streams. We are confident we can transform this business and continue to build shareholder value during that process,” he added.

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

<http://www.businesswire.com/news/home/20140414006371/en/SofTech-Announces-Q3FY-2014-Operating-Results#.U01UWPlDU0E>

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### ***TCS Strengthens Global Market Position in FY14; Growth Momentum Continues***

16 April 2014

Tata Consultancy Services (TCS) reported its consolidated financial results according to IFRS for the quarter and financial year ended March 31, 2014.

Commenting on the 2013-14 performance, N. Chandrasekaran, CEO and MD said: “We have delivered strong growth and strengthened our competitive positioning in the market. We have maintained our momentum, improved our quality of growth, deepened our relationship with customers and expanded our presence in newer markets like Europe during the past 12 months. Our strategic investments including those in Digital Technologies are providing a compelling value proposition as well as helping us anticipate and shape new market trends successfully.”

Looking forward to financial year 2014-15, Mr Chandrasekaran added: “We are upbeat that the next 12 months will bring many more opportunities for growth across multiple industries and markets. As an organization, we remain focused on disciplined execution of our strategy as well as on energizing 300,000 TCSers to ensure they make a difference to their customers, their colleagues and the community.”

Rajesh Gopinathan, Chief Financial Officer, said: “Our focus has been to stay disciplined in operations while supporting business growth across multiple markets, industries and technologies. We enhanced our profitability to industry leading levels despite macro and currency volatility through the year. We are continuously investing to stay ahead of the curve.”

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

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[http://www.tcs.com/SiteCollectionDocuments/Investors/Presentations/TCS\\_PressRelease\\_IFRS\\_USD\\_Q4\\_14.pdf](http://www.tcs.com/SiteCollectionDocuments/Investors/Presentations/TCS_PressRelease_IFRS_USD_Q4_14.pdf)

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## ***Wipro Limited - Net Income Grew 41% YoY in the quarter***

17 April 2014

Wipro Limited today announced financial results under International Financial Reporting Standards (IFRS) for its fourth quarter and year ended March 31, 2014.

### **Results for the Quarter ended March 31, 2014:**

- Revenues from continuing operations were rupees 117.0 billion (\$2.0 billion<sup>1</sup>), an increase of 22% YoY.
- Net Income from continuing operations was rupees 22.3 billion (\$371 million<sup>1</sup>), an increase of 41% YoY.
- Non-GAAP Adjusted Net Income from continuing operations was rupees 22.3 billion (\$371 million<sup>1</sup>), an increase of 42% YoY.
- IT Services Revenue was \$1,720.2 million, a sequential increase of 2.5% and YoY increase of 8.5%.
- IT Services<sup>2</sup> Revenues in Rupee terms was rupees 106.2 billion (\$1.8 billion<sup>1</sup>), an increase of 24% YoY.
- IT Services<sup>2</sup> Earnings Before Interest and Tax (EBIT) was rupees 26.1 billion (\$434 million<sup>1</sup>), an increase of 51% YoY.
- IT Services<sup>2</sup> Operating Margins was 24.5%, an expansion of 150 basis points sequentially.

### **Results for the Year ended March 31, 2014:**

- Revenues from continuing operations were rupees 437.6 billion (\$7.3 billion<sup>1</sup>), an increase of 16% YoY.
- Net Income from continuing operations was rupees 78.0 billion (\$1.3 billion<sup>1</sup>), an increase of 27% YoY.
- Non-GAAP Adjusted Net Income from continuing operations was rupees 78.0 billion (\$1.3 billion<sup>1</sup>), an increase of 28% YoY.
- IT Services Revenue was \$6,617.9 million, YoY increase of 6.4%.
- IT Services<sup>2</sup> Revenues in Rupee terms was rupees 399.5 billion (\$6.7 billion<sup>1</sup>), an increase of 18% YoY.
- IT Services<sup>2</sup> Earnings Before Interest and Tax (EBIT) was rupees 90.3 billion (\$1.5 billion<sup>1</sup>), an increase of 29% YoY.
- IT Services<sup>2</sup> Operating Margins was 22.6% for the year an expansion of 195 basis points YoY.
- Wipro declared a final dividend of rupees 5 (\$0.08) per share /ADS, taking the total dividend declared during the year to rupees 8 (\$0.13) per share/ADS.

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

<http://www.wipro.com/Documents/investors/pdf-files/IFRS-Press-Release-Q4-FY14.pdf>

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## Implementation Investments

### *AVEVA Provides Integrated Engineering & Design Solutions to TOTAL E&P Nigeria Limited*

17 April 2014

AVEVA today announced that TOTAL E&P Nigeria Ltd (TEPNG) has adopted AVEVA's Engineering & Design solutions as part of an Integrated Engineering & Design approach. TEPNG is the operator of a joint venture with the Nigerian National Petroleum Corporation (NNPC). The Company has invested in acquired licenses for AVEVA PDMS, AVEVA Instrumentation, AVEVA Electrical, AVEVA Engineering, AVEVA Diagrams and AVEVA Review and has fully implemented the software across its local site modifications and repair projects.

“This investment in AVEVA's solutions demonstrates the value our products deliver to Owner Operators engaged in complex engineering projects,” Fredy Ktourza, Senior Vice President, Western Europe and Africa, AVEVA. “This important deployment will help us to increase our footprint within Nigeria, not only with the IOC's, but also with the local engineering and construction contractors that are engaged with projects throughout the country. AVEVA's Integrated Engineering & Design approach gives a flexible and effective 3D design and engineering environment that increases project efficiency and enables real-time collaboration, across the TEPNG organisation and with its local contractors. We greatly value the trust they have placed in our technology and service.”

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### *Corset Story Implements Cloud PLM Software from WFX*

16 April 2014

Corset Story has been one of the big fashion success stories of the past decade. The company's forty nation reach comes from an almost fanatical fan-base that is both fed by masterful use of social media and feeds the company's innovation and development.

As one of the largest corset retailers in the world, this rapid growth needs support that is tailored to its unique business model – a bit like Corset Story's products - in-house development has to be flexible, powerful and appealing if it's to achieve the results desired!

#### **Corset Story chose WFX cloud-based PLM for its:**

- **Sophistication.** Corset Story has a savvy and demanding customer base that expects to be both surprised and satisfied by each new collection and concept – their PLM system needs to be rigorous with data but eminently creative in use, so that the unique Corset Story flair can continue to shine through whilst maintaining explicit and implicit product and manufacturing values.
- **Ultra-Rapid Deployment.** Targeted at five weeks from initial implementation to completed core

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development training, meaning the Corset Story team will be fully equipped to use this powerful new system for design, development, material management, approvals and critical path management in its very first season.

- **Project Implementation.** This is being delivered by the same team - led by fashion business consultant and mentor Ben Muis - that recently completed the successful MCS implementation in Italy.
- **Ongoing Support and Development.** The remaining extended functions of WFX, which add depth to the development and data processes, will give enhanced capacity after the first season and WFX will train the Corset Story team in these amplified areas once the first season is over.

Apparel is an unforgiving sector – mistakes are always costly and can be fatal. For a fashion brand like Corset Story to opt for WFX cloud PLM shows that this PLM system is winning new adherents every day. Why? Because its flexibility, scalability and ease of use make it the perfect structure to underpin the creative development of fashion businesses worldwide.

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## ***Edgcam Simulation Shows True Surface Finish on Medical Instruments***

17 April 2014

A week's programming with Edgcam CNC software provides the UK's leading manufacturer of orthopaedic instruments with 12 weeks of machining time for their highly complex products.

Sheffield Precision Medical say they could not have physically produced many of last year's 50,000 piece parts without Edgcam. According to Manufacturing Director Steve Lambell, their products are so complex that it would be impossible to write CNC programs for them manually.

“There would be thousands of lines of code. We just couldn't do it. Many of our Edgcam programs are for milling 3D surfaces on Bridgeport and Haas 3-, 4- and 5-axis machines. We carry out all our positional work with 5-axes – previously we'd need to make fixtures to hold the parts in the right orientation...but Edgcam creates perfect tool paths for 5-axis machining, saving us around 60 per cent on setting up time.”

Working closely with major medical and surgical companies such as DePuy, Biomet, and MatOrtho, Sheffield Precision Medical's range runs to several hundred different products, including drills, reamers, rasps, guides and cutters, in varying sizes. “We'll get the programs right for one size, and then Edgcam quickly produces toolpaths for the other sizes. This is vital for getting full machine utilisation and optimum floor-to-floor time from when we first pick up the job at the design stage to putting the finished product on the floor.”

Managing Director Brian Reece says the company's roots as a cutting tool manufacturer are a great strength. “Many surgical instruments are very similar to an ordinary cutting tool, and when we moved into this sector in 1990 our understanding of cutting tool technology enabled us to redesign new customers' existing instruments to make them more efficient and produce them with fewer components.”

Nowadays orders vary from one specific instrument through to complete sets of everything a surgeon needs to carry out operations such as hip, elbow and shoulder joint replacements.

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“We often get involved at the prototyping stage,” says Brian. “It may be a concept, or may be an actual prototype that a customer has an issue with regarding manufacturing it in the most cost-effective way. That’s where our background in cutting tools pays dividends, enabling us to use our technological knowledge for the design itself, to produce the best instruments. And Edgecam is key to the front end design, which actually spearheads our business.”

Most customers provide a 3D model, which Sheffield Precision Medical then pulls into Edgecam and extracts features for creating the cutting paths. “The features are mainly profiling, roughing and parallel lace where we run the bullnose over the 3D contour for all the 3D shapes.”

And Steve says when the raw billet first goes on the machine Edgecam produces the roughing cycle on its own, before they move on to finishing. “We do it this way because some of our programs have more than 25 tools, each relating to a different profiling operation. Posting the roughing and finishing programs one at a time makes it easier for the operator to understand, and it’s a lot smoother to get the machine up and running.”

Steve and a colleague program all the jobs, with six setter-operators then setting up the tooling, proving the programs and running the machines.

“We always run a simulation on Edgecam in the office before sending the program to the machine, and, as a result, we’ve never had a collision.”

The simulation function also plays an important part in showing Steve the finished surface texture. “We can actually see what it’s going to be like before we start machining. It’s all to do with tolerancing on the profiling, roughing or parallel lace. By using the true simulation we can see an extremely accurate replication of the surface finish the machine will give us.”

He does not believe they are a “typical” Edgecam user because of the vast range of different shapes and sizes they manufacture and the complexity of the shapes. “Some of the parts we make don’t ever have a 90 degree edge to each other. Sometimes when we get an order for a new product we can’t see at first how we’re going to make it. But running a program through Edgecam to create a profiling operation is done in minutes, making our production process so much easier. I don’t work to solid...I extract the information I need off the solid to run the cutters.”

The Gulf War was the catalyst that brought the company to the medical sector. Brian Reece says: “We were producing a large number of cutting tools for the commercial aerospace industry, but the world became fearful of flying when the war started and we saw a drop of around £500,000 in cutting tool orders. We were also producing cutting tools for some orthopaedic implant manufacturers, and because many surgical instruments are so similar to cutting tools we picked up £300,000 worth of business in this sector within 12 months.” A stand-alone company was formed in 2003, which, through a series of acquisitions, became Sheffield Precision Medical in 2010.

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## ***Euroned Engineering Chooses ZWCAD+ to Improve Workflow Efficiency***

17 April 2014

[ZWCAD Design](#) today announced that it has been selected by Euroned Engineering for its efficient revision and annotation tools, as well as its ability to deal comfortably with large files, allowing Euroned Engineering to improve the efficiency of their workflow.

# CIMdata PLM Industry Summary

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[Euroned Engineering](#) provides engineering and technical consultancy for offshore projects, tailored to clients' needs and requirements. As providers of engineering services, their objective is to be recognized by customers as a reliable deliverer of quality works. Their experience allows them to solve technical problems in an efficient and cost effective manner. Euroned Engineering is a member of Upetrom Group, which renders offshore drilling and construction services, subsea services, hydro-technical construction services, well services, engineering and training through Grup Servicii Petroliere, and coordinates the production of oilfield equipment.

## **The Need**

The growing demand for an increased quality and quantity of work has initiated the desire for Euroned Engineering to seek improved CAD software. The higher quality of work has resulted in far greater file sizes, often leading to software crashes or slow performance. More projects also emphasize the need for greater efficiency, therefore Euroned Engineering required tools to improve the speed at which revisions can be made, and documents and annotations can be shared. Finally Euroned Engineering required strong compatibility with a wide variety of image formats, including raster images.

## **The Solution**

Euroned Engineering chose [ZWCAD+](#) because it satisfies their three main needs as follows:

### **Efficient Memory Usage**

The effective way that ZWCAD+ uses the PC's memory, results in far greater hardware and software performance, even with large files. This allows users to open several large files, safe in the knowledge that the software will not crash, and other programs will not slow down to a frustrating pace. This allows designers to work quicker, and create drawings of much higher quality on hardware without constant upgrading to the highest specification.

### **Unique Drawing Tools Improve Efficiency**

With growing quality requirement for Euroned Engineering, efficiency has become a major concern. The increased efficiency by tools unique to ZWCAD+, allows designers to work at a much improved pace, and reduces the time wasted completing menial tasks.

Valentin Ivanof, General Manager of Euroned Engineering, notes Associative Dimensions as one of the primary tools that help him and his designers to complete work more efficiently. "Using Associative Dimension, the revision of drawings works more efficiently. When the design is changed, other relevant details are correspondingly updated...Our engineers find it very easy and convenient to work with".

### **Strong Compatibility with a Variety of File Formats**

As a consultancy company, Euroned Engineering is sent files from a huge number of different sources, often in a wide variety of formats. ZWCAD+'s strong compatibility means that Euroned Engineering can open files from all clients and collaborators, without worrying about wasted time or errors from conversion.

Euroned Engineering has recently utilized ZWCAD+ to design an offshore platform from scratch, and will continue to use the software to design major engineering projects. They also use it to refine and revise other designs. This work is made quicker and more efficient with ZWCAD+, while Valentin Ivanof also praises the local distributor of ZWCAD+ for their "prompt assistance in helping with technical problems as well as sales and licensing requests".

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## ***Geometric Enters into Engineering Contract with Aerolia***

17 April 2014

[Geometric](#) Ltd. today announced that it has entered into a multi-year engineering services engagement with Aerolia, one of the largest tier 1 aerospace suppliers. Under the agreement, Geometric has set up a dedicated center for mechanical systems installations in Bengaluru, India.

Aerolia, a part of the AIRBUS group, selected Geometric for its expertise in setting up offshore engineering centers and to leverage Geometric's engineering capabilities along with its IP and software development strengths for intelligent engineering. Geometric's deep understanding of the product development cycle and technology will help Aerolia's global operations to enhance their competitive advantage.

Announcing the engagement, Mr. Raphaël Duflos, Chief Procurement Officer, "Aerolia is pleased to sign this important contract with Geometric. Today is a key step in a strategic path that should enhance intimacy between Aerolia and the Indian Supply Chain, leading to competitive partnerships. Aerolia will continue to enlarge its Indian Supply Chain content to serve its total cost of acquisition targets and deliver local value for its end customer."

Mr. Manu Parpia, MD & CEO added, "We are very pleased with this association with Aerolia, a major aerospace tier 1 supplier. We have begun a journey together and it is Geometric's endeavor to provide value to Aerolia through not only cost savings, but also innovative use of its technologies, thus enabling Aerolia better serve their customers. The Aerospace vertical is a key driver of growth for Geometric".

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## ***Greenheck Fan Runs Like the Wind With SAP***

15 April 2014

Underscoring the value of an integrated system for manufacturing operations, [SAP AG](#) today announced the success of customer Greenheck Fan, a leading supplier of air movement and control equipment. Due to the complex needs of customers that require complex products of varying sizes, Greenheck manages an extremely configurative order environment using the SAP® Product Lifecycle Management (SAP PLM) application. The announcement was made at the [SAP Manufacturing Industry Forum 2014](#), being held April 15-16 in Itasca, Illinois.

Founded in 1947, Greenheck Fan is the manufacturer of air movement products tailored for the institutional and commercial market. Since its inception, Greenheck has grown considerably, and now has six manufacturing locations and six distribution locations across the country and around the world. With SAP PLM, Greenheck integrates the engineering and design process into manufacturing systems so users are able to design multiple product variants, make changes to them and control these changes in the same system, helping them flow seamlessly into production. The integration is critical as the sole way for Greenheck to keep pace with customer changing requirements, which are unique for each customer and can change up to the day of production.

In coordination with SAP PLM, Greenheck runs the SAP® Manufacturing Integration and Intelligence (SAP MII) application to pass dimensional drawing data, which employees can view on the shop floor. Because the products are so parametrical dimensional and run in many sizes, the possibility for human

## CIMdata PLM Industry Summary

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error in entering dimensional data was high. SAP MII helps solve the problem by downloading dimensional data, from order entry to machine floor, helping reduce operator errors. Additionally, SAP MII helps to consolidate Greenheck's half million different active parts in one plant. Inventory is now completely synced in the system and more accurate 24 hours a day.

SAP PLM and SAP MII are part of "idea to performance," the company's holistic business approach to managing the entire life cycle of a product, which supports manufacturers with software for integrated end-to-end processes. This ranges from early product design phases, throughout responsive manufacturing processes to sustainably managing humans, energy and assets to help ensure operational excellence.

"Since our first SAP implementation in 2005, we have grown our business and grown our SAP system simultaneously," said Don Brekke, vice president, Information Technology, Greenheck Fan. "As our products have become more nuanced and specialized, so too have our SAP manufacturing components, allowing us to better serve our customers and ensuring that all of their needs are met with Greenheck Fan."

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### ***Initec Achieves 40% Time Savings with AVEVA Electrical***

15 April 2014

Initec Plantas Industriales, the principal subsidiary for Oil & Gas projects of Tecnicas Reunidas, has successfully deployed the AVEVA Electrical software on all of its projects. Initec chose AVEVA Electrical for its advanced capabilities, as well as for the long and trusted relationship the company has had with AVEVA. AVEVA's high-quality configuration and support services, provided during a pilot deployment of the software, proved a decisive factor in Initec's decision to roll out AVEVA Electrical on all its major capital projects.

"We wanted to eliminate inconsistencies between related engineering documents and to reduce the high number of design revisions," said David Casado Ruiz, Electrical Manager, Initec Plantas Industriales. "We selected AVEVA Electrical because its user-friendly interface is designed specifically for engineers. You don't have to be an IT specialist to use it. Because AVEVA Electrical is open and configurable, we were able to import data from spreadsheets and match the output formats with our existing engineering deliverables. But the most significant benefit from using AVEVA Electrical is the time we have saved issuing deliverables, such as interconnecting drawings and cable drum lists. We estimate the time reduction at 40%. We are now implementing AVEVA Electrical in all of our projects."

"We are proud of the trust Initec has placed in us by using AVEVA Electrical on such high-profile projects so quickly after its deployment," said Fredy Ktourza, Senior Vice President, EMEA Sales, AVEVA. "Initec had tried other vendors' solutions, but found them difficult to configure and customise. We were also able to ensure a successful deployment at Initec through our training, configuration and technical set-up support, which are important parts of our customer service. AVEVA Electrical will help Initec maintain its competitive edge through increased productivity and by providing its customers with higher quality deliverables."

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## ***PCL Construction Makes Enterprise Commitment to Bluebeam Revu***

18 April 2014

[Bluebeam® Software](#) has received a commitment from PCL Construction to deploy [Revu®](#), Bluebeam's flagship solution, enterprise-wide. PCL's implementation of Revu as a key digital collaboration solution exemplifies Canada's largest contracting organization's dedication to implementing cutting edge mobile technology.

"Having drawings and specs available in the field, in an electronic format, all linked together, gives our field engineers the freedom to move throughout the jobsite with all of the project information at their fingertips," remarks Mark Bryant, Chief Information Officer at PCL. "Revu facilitates the ability of our staff and subcontractors to keep up with daily changes made to a master set of design documents, and ensures a higher level of quality control."

PCL uses Revu to effortlessly navigate hyperlinked drawings in the field. With Revu on the iPad and on tablet PCs, field engineers are able to simply tap a room in a plan and be able to quickly and easily reference all related documents, such as RFIs and submittals, specific to that room. Using Revu's integrated cloud-based collaboration solution, [Bluebeam Studio™](#), allows PCL's project teams to markup specification drawings for real-time clarification and coordination on the jobsite.

"Revu makes it easier than ever to create, access, markup and share field-ready document sets," says Kristine Hopkins, Director of Account Services. "We are excited to see how PCL continues to leverage Revu to push the limits of project communication and build better."

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## ***SEASALT CORNWALL selects Visual 2000 PLM Solution***

14 April 2014

Visual 2000 International announces leading womenswear multi-channel brand Seasalt are to implement Visual 2000 new PLM S V8 release. Seasalt recently won the prestigious Drapers 2014 award for 'womenswear brand of the year' and are the first ever fashion company to win the Queens Award for Enterprise in Sustainable Development 2013.

Adam Cotgreave, Seasalt Project Manager commented "Throughout our selection process Visual 2000 have shown a true understanding of the fashion industry which is reflected in the rich functionality the solution offers. Selecting the Visual 2000 PLM solution to streamline our planning, design and product development processes will allow our creative teams focus on the things we really care about; our products and our customers".

Visual 2000 UK Managing Director Tony Mather said "We are delighted to be working with Adam and the Seasalt team. There are many key drivers within Visual PLM to benefit and support Seasalt, including world class planning and reporting tools, Adobe integration and a dynamic workflow to manage the many seasonal demands. The system will ensure real time overseas supplier communication

and enhance product development collaboration".

Visual PLM centralises all product information into a single data base at the front end for best practise, empowering management and teams to increase operational efficiencies, streamline the design and product development processes.

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## Product News

### ***BETA CAE Systems S.A. announces the release of ANSA & μETA v14.2.5***

15 April 2014

BETA CAE System S.A. announces the release of v14.2.5 of ANSA / μETA pre- and post- processing suite. This maintenance release focuses on the correction of identified issues for the ANSA / μETA 14.2x branch and is addressed to those who wish to continue to use the v14.2x branch -and not to upgrade to v15x-, with its issues resolved. Those corrections have been also propagated to the following releases of the v15x branch.

This release of v14.2.5 implements code corrections, to the v14.2.4 release. It belongs to the v14x branch and is not compatible to v15x branch. The corrections introduced in v14.2.5 were also implemented to the following release of the v15x branch, which will be 15.0.2..

#### **Known issues resolved in ANSA**

##### **General**

The "Coordinate Systems" options in the F11 window would not be saved in the ANSA defaults file.

##### **Mesh**

Spacing [Auto CFD]: With certain settings, the perimeter nodes spacing would be applied incorrectly.

##### **Decks**

LS-DYNA: When exporting to .key file from versions 14.1.0 to 14.2.4 - from ANSA files created with versions prior to 14.1.0 -, a wrong SFA value on \*DEFINE\_TABLE keyword would be set.

When applying BOLD with 'Body' options KJOIN R/C or JOINT R/C, it was not possible to select a 2nd hole.

Abaqus: On curves with more than two columns, attempting to edit a point, while in XZ\_YZ view, could lead to unexpected termination.

For more details about the new software features, enhancements and corrections please, refer to the [Release Notes](#) document.

#### **Known issues resolved in μETA**

##### **Loading Results**

The performance issue when loading a second model has been fixed.

##### **Decks**

LS-DYNA: Strain values would be wrong when the value of NEIPH was other than zero.

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## ***Delcam Upgrades Software for Accommodative and Corrective Orthotic Insoles***

17 April 2014

Delcam has launched the 2014 version of its OrthoMODEL software for the design of custom orthotic insoles. The new release includes a range of improvements to the user interface to improve workflow and reduce design times, enhancements to pad design and placement, a more sophisticated re-ordering process and faster, more reliable import of scan data. For further details, please go to [lz.orthotics-cadcam.com](http://lz.orthotics-cadcam.com)

OrthoMODEL offers “real-time design” of both accommodative orthotics, ideal for patients with diabetes and for those requiring comfort insoles, and corrective orthotics, to address problems with the patient’s foot orientation and gait cycle.

The software has a direct interface to Delcam’s iQube range of scanners, all of which are able to scan the patient’s foot, foam boxes or casts. As an open system, it can also import scan data from most other systems as well as create NC code for orthotics generated in other CAD systems

The improvements to pad placement allow them to be merged into the orthotic, rather than only having the option to add them on top of the surface. The speed of pad placement has also been improved enabling design time to be further reduced. Similarly, depressions can be added relative to a plane as well as subtracted from the orthotic surface. These two options give more flexibility in design.

OrthoMODEL has always been able to store designs for repeat orders. This functionality has been made much more powerful with a new ability to copy any order from any stage in its development, modify it where required and re-submit it for manufacture.

This option will be particularly valuable for patients that require repeat orders, those requiring the same design to be applied to different shoe types or even those being prescribed a series of orthotics to correct a problem progressively. Previously, the modified orthotic would have needed to be redesigned from the start. Now, the original design process can be interrupted where the changes are needed and the modifications made at that point.

As with all of Delcam’s products for the orthotics industry, the new software has been developed in association with Delcam customers from laboratories, podiatrists and orthotists around the world, coupled with Delcam’s knowledge of footwear design and manufacture gained from its relationships with leading brands.

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## ***Free CAD Release Supports Latest Technologies: MEDUSA4 Personal 5.2.1***

16 April 2014

CAD hobbyists and small businesses can now benefit from the latest version of CAD Schroer’s free drafting package for Windows and Linux, released just months after its commercial counterpart.

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Users can visit the MEDUSA4 Personal pages on the CAD Schroer website for their free license and download.

Register for a free MEDUSA4 Personal license:

[http://www.cad-schroer.com/products/medusa4-personal.html?pk\\_campaign=pr140416\\_m4pv521](http://www.cad-schroer.com/products/medusa4-personal.html?pk_campaign=pr140416_m4pv521)

Private, non-commercial use, and the deployment of the software for educational and research purposes is completely free of charge. Businesses do not have to pay for the software, only for commercially viable results. Companies wishing to use the software commercially can do so on a pay-per-result basis. The CSG eSERVICES portal unlocks MEDUSA4 Personal drawings for unlimited commercial use.

## **Updates in Line with Latest Technologies**

MEDUSA4 Personal 5.2.1 includes an update to the excellent CADConvert DXF/DWG interface for importing CAD data in DXF/DWG format up to the latest version. The software now also runs on Windows 8 Pro and 8.1 Pro.

## **Colour Image Integration**

The MEDRaster module for integrating and editing images in CAD sheets now benefits from the latest raster editing technology supported by ImageMagick®. Raster editing performance has been further improved as a result, and there is a new option for saving sheets as black and white TIFFs.

## **Drafting and Dimensioning Tool Enhancements**

Further enhancements in the Smart Drafting Tool for dynamic design editing in MEDUSA4 5.2.1 include new functionality for creating perpendicular arcs relative to the previous line segment drawn. Dimensioning enhancements include new options for dimension text positioning and formatting of unscaled dimensions.

The free high end CAD suite, which was launched in 2006, is used by hobby engineers and professionals in 165 countries. Updates and new versions are released regularly.

Download the free CAD system:

[http://www.cad-schroer.com/products/medusa4-personal.html?pk\\_campaign=pr140416\\_m4pv521](http://www.cad-schroer.com/products/medusa4-personal.html?pk_campaign=pr140416_m4pv521)

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## ***Gerber Technology Introduces AccuNest Multi-Core Automated Nesting Software***

15 April 2014

Gerber Technology announces the release of [AccuNest™ Multi-Core \(MC\)](#) software for automated marker making. AccuNest MC software employs multiple computer processors to automatically nest markers that deliver up to 2 percent better material utilization than single-core nesting systems. It enables more accurate costing, maximizes material utilization and reduces labor costs.

Mary McFadden, director of CAD Product Management, said, “In a field study using more than 60 markers, AccuNest MC software shortened markers an average of one inch (2.5 cm.) and improved utilization as much as 2 percent over single core automated nesting solutions. AccuNest MC software also outperformed competitive multi-core nesting solutions by 1 percent, on average. These types of material savings can translate into tens or even hundreds of thousands of dollars over the course of a year – savings that are easy to realize through a one-time investment in software.”

AccuNest MC software employs powerful algorithms to analyze multiple nesting solutions and

consistently deliver the marker with the highest material utilization without human intervention. For example, a user with an eight-core computer can explore eight times the number of nesting strategies as someone using a single core processor. The software makes markers 24 hours a day – even working unattended overnight, to respond to peak demands without added labor costs.

“AccuNest continues to deliver the most efficient markers in the industry,” McFadden added. “The software offers an advantage to businesses of all sizes that are eager to cost markers more accurately and nest production markers more efficiently.”

AccuNest MC may be added to an existing [AccuMark](#) software seat or operated as a standalone system connected to an AccuMark network. The software is compatible with AccuMark 9.0 and higher.

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### ***Hybrid Hex-Tet Meshing in Latest Pointwise Release***

14 April 2014

Pointwise announces the latest release of its Pointwise computational fluid dynamics (CFD) meshing software featuring an extension of the company's advanced T-Rex hybrid meshing technique to generate near-wall layers of hexahedral cells.

“As our T-Rex technique for generating hybrid prism-tet meshes with boundary layer resolution continued to evolve, our customers collectively expressed a strong interest in using hex cells in the boundary layer instead of prisms,” said Dr. John Steinbrenner, Pointwise's vice president of research and development. “Hex cells are generally thought to provide the basis for a more accurate CFD solution, plus there will be fewer hexes than tets so computations would be faster. Fortunately, post-processing T-Rex's tet cells into hexes (12 tets per hex) was a natural extension of the existing tet-to-prism combination algorithm.”

T-Rex (anisotropic tetrahedral extrusion) is a highly automated, advancing layer technique for generating a CFD mesh with boundary layer and wake resolution. The technique extrudes layers of high-aspect ratio, right-angle-included tetrahedra outward from a surface mesh. A post-processing operation sequentially combines three successive tetrahedra into a stack of prisms. In this new release of the technique, extrusion from a quadrilateral surface mesh begins with a single pyramid, after which the usual tet extrusion begins. The resulting tets (and that first pyramid) are post-processed into stacks of hexes.

“This new hex capability in T-Rex is just the first step of many that will vastly expand the scope of mesh types that Pointwise can generate,” said John Chawner, Pointwise's president. “We look forward to customer feedback on this first release of unstructured hex cell generation in T-Rex to guide further developments.”

Pointwise Version 17.2 also includes updated compatibility with CGNS, FUN3D, ANSYS Gambit, STAR-CD, and SC/Tetra; support for the OpenSUSE, Ubuntu, and CentOS Linux distributions; several productivity improvements; and defect corrections.

Pointwise, Inc. is solving the top problem facing engineering analysts today – mesh generation for computational fluid dynamics (CFD). The company's Pointwise software generates structured, unstructured and hybrid meshes; interfaces with CFD solvers, such as ANSYS FLUENT, STAR-CCM+, ANSYS CFX and OpenFOAM as well as many neutral formats, such as CGNS; runs on Windows (Intel

and AMD), Linux (Intel and AMD), and Mac, and has a scripting language, Glyph, that can automate CFD meshing. Large manufacturing firms and research organizations worldwide rely on Pointwise as their complete CFD preprocessing solution.

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## ***IMAGINiT Technologies and Rand Facilities Management Offer Complete Building Lifecycle Management Services***

17 April 2014

[Rand Worldwide](#) today announces services for customers looking to integrate Building Information Model (BIM) data and their Facilities Management (FM) systems for a comprehensive approach to building lifecycle management (BLM).

“Together the Rand Facilities Management and IMAGINiT Technologies teams help clients derive the maximum benefit from integrating BIM data with their FM systems,” states Tim Johnson, senior vice president of IMAGINiT Technologies. “Be it taking BIM data from Revit, scanning a building and putting that point cloud data into Revit, the sharing of Revit models with teams collaborating on a project, or the inclusion of CFD analysis for building ventilation we have experts that can help develop and collect that data, set up standards for working it, and that can help manage it and import it into your FM platform of choice so that you can begin to leverage the promise of BLM.”

Professionals from IMAGINiT Technologies and Rand Facilities Management have shared and will be sharing their insights for companies considering a comprehensive approach to integrating BIM data with their FM platform(s), at the following conferences:

- MED-Ed Facilities 2014 in Boston, April 1-2, 2014
- IFMA Facilities Fusion in Washington, DC, April 15-17, 2014
- RICS Summit of the Americas 2014 in Toronto, May 4-6, 2014
- Architecture Boston Expo 2014 in Boston, October 28-30, 2014

“Since building maintenance costs over the life of a building dwarf that of construction, capturing rich data in the model allows facility operators to cost effectively run operations over the long-haul,” says Scott Hale, vice president of services at IMAGINiT Technologies. “Sharing our experiences and customer needs over hundreds of implementations allows us to bring all the players together and build a building information model that’s not only valuable during the design and construction phase, but also throughout the lifecycle of the building.”

“The next logical step in BIM is building lifecycle management (BLM),” stated Peter Costanzo, director of business development for Rand Facilities Management. “Being able to get your facilities system updated with a relevant model and corresponding information is the first step in this process. The insight gained when BIM and FM intersect is crucial in reducing costs during the maintenance phase of a building.”

IMAGINiT implements software, processes and workflows that help organizations capture relevant data and maximize the full potential of the BIM process while Rand Facilities Management helps owners and operators make the most of their building intelligence within an integrated workplace management system (IWMS) and other facility management tools. Based on real world experiences, IMAGINiT and

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Rand Facilities Management experts highlight four key considerations for ensuring reliable, useable information is contained in the building information model.

1. Consider both business needs and objectives to be tracked and include them in the model with their appropriate data.
2. Ensure the model reflects the as-built conditions of the building, so dimensions will not need physical verification in the future.
3. Consider the needs of the facility occupants
4. Differentiate between data that should be in the Autodesk Revit model and that which should be in other databases or systems to avoid model bloat.

Capturing best practices and creating new efficiencies that customers have been requesting, IMAGINiT has developed several software applications that help organizations effectively leverage the BIM process, including Scan to BIM which aids in creating a model from point cloud data and IMAGINiT Clarity products which offer a way for design teams to communicate information to owners through an online dashboard.

The Rand Facilities Management team helps owner organizations take building intelligence one step further – into their operations. By knowing what they have, they can now use what they know to make informed decisions about space planning, maintenance, energy costs, integrating automated building systems and more.

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## ***Infinite Skills' "Advanced Revit Architecture 2015 Tutorial" Unlocks Advanced Capabilities of Powerful 3D Modeler***

18 April 2014

Software training firm Infinite Skills Inc. last week introduced its "Advanced Revit Architecture 2015 Tutorial," an intermediate course teaching advanced skills and techniques for architectural modeling with the powerful computer assisted design (CAD) program.

Revit is a three dimensional architectural design modeling program that makes dynamic use of the support of a building information database. Building information modeling (BIM) is used to govern all phases of a building life cycle and produce Revit's signature viewing and rendering options.

Infinite Skills' Advanced Revit Architecture 2015 Training Tutorial introduces new users to another level of control and sophistication in designing with this powerful software. Building on the basics taught in the introductory course, Learning Revit Architecture 2015, the advanced course teaches skills that allow users to add greater detail and work more efficiently.

The two courses are currently offered as a bundle at a discounted rate of \$149.95.

Course author Brian Myers has been working in Autodesk for more than two decades, starting in version 9 in 1989. For the last seven years, he has focused on Autodesk Revit, working in all of its various editions. Myers was one of the first certified instructors for Revit Architecture, in addition to his private training practice, Myers has published several video training series and edited two books. He is also the founder of Revit Users, a Revit support community found on LinkedIn.

Here, Myers alternates between advanced concepts in drawing with Revit, and exploring the suites and

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tool sets for documenting, viewing, and sharing, that make Revit a favorite CAD program for architects. He begins by showing users how to define and work with families and parameters, and covers all the details of setting up annotation standards, before walking students through the options and organizational tools for beginning and planning a new project.

The course then moves into the details of drawing as Myers demonstrates advanced tools for creating walls, curtain walls, floors, stairs, ramps, and more. Students learn advanced techniques such as how to group components, create parts and assemblies, and break down and plan room areas.

Myers pays special attention to new viewing capabilities that allow users to break apart a segment of a building's structure, and analyze, plan, and design its components.

The course closes with a look at options for a final product, paying particular attention to creating Revit's signature presentations using material, lighting, 3D text, and walkthrough views.

"This course is designed to provide an enhanced understanding of Revit capabilities, along with increased knowledge of best practices when using and administering Revit," Myers says.

Free demo videos and a full list of course contents can be found on the Advanced Revit 2015 Architecture training page on the company website:

<http://www.infiniteskills.com/training/advanced-revit-architecture-2015-training.html>.

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### ***Infor Implementation Accelerator Now Available for Infor Optiva***

14 April 2014

[Infor](#) today announced the general availability of the Infor [Implementation Accelerator](#) for [Infor Optiva](#) within the [Food & Beverage](#) industry. Organizations are now able to implement and utilize the integrated Product Lifecycle Management (PLM) product with a preconfigured database and supporting documentation, which is designed to help provide a faster and more cost-effective return on investment. The Implementation Accelerator for Infor Optiva delivers common PLM best practices and documented business processes for the food and beverage industry leveraging the latest versions of Infor Optiva. This pairing is designed to help enable Infor customers to reduce certain risks associated with implementation and to help establish a lower cost of ownership.

The Implementation Accelerators are designed to deliver core industry application processes, and to help reduce implementation times, risk and cost, both in the cloud or on-premise for customers in various industries.

Infor Optiva is an advanced PLM system designed specifically to cater to the needs of the process manufacturing industry, including food & beverage, nutraceuticals and cosmetics. The product is designed to help enable organizations to get products to market quicker and to shrink product development cycle times, while helping to ensure regulatory compliance, supporting processes, including new product development and introduction, formulation, packaging and label management, integrated stage gate process support and project management. The addition of an Implementation Accelerator to Infor Optiva is designed to help enable food and beverage manufacturers to raise their efficiency, lower costs and deliver products to market faster than before.

"In today's market, food and beverage manufacturers cannot afford to undertake time-consuming

technology implementations that create costly downtime for the company," said Chris Krechting, vice president, Global PLM Sales, Infor. "The Implementation Accelerator for Infor Optiva is designed to help speed deployment and time-to-market for new products, which can help companies to keep production on track to better meet the rapidly changing needs of their customer base."

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## ***New Release of MapleSim Toolbox Expands Control Design Capabilities***

17 April 2014

Maplesoft™ has announced an important update to the MapleSim Control Design Toolbox, an add-on to MapleSim, the advanced system-level modeling and simulation tool from Maplesoft. [The MapleSim Control Design Toolbox](#) allows engineers to take advantage of the greater flexibility and analysis options available through the use of symbolic parameters. This new release extends the functionality of this toolbox with more control algorithms, options for automatically selecting the most suitable algorithm and parameter values, and extensive improvements to existing features.

The MapleSim Control Design Toolbox now includes additional control algorithms that operate on a wider range of systems and the ability to construct closed-loop systems so that users can create controllers with feedback. It offers a more complete set of algorithms for PID control, including automatic tuning of the controller. It also provides automatic computation of design parameters, such as poles and weighted matrices, for state control feedback design. These enhancements allow engineers to design a greater variety of controllers and controller-observer systems such as linear-quadratic-Gaussian control (LQG).

“With the MapleSim Control Design Toolbox, customers can easily perform traditional control tasks, but they also have the added flexibility that comes from having access to the symbolic power of MapleSim,” says Dr. Chad Schmitke, Director of MapleSim Development at Maplesoft. “By including symbolic parameters, researchers can gain insights into control problems in ways that are simply not possible with other tools. In addition, educators can use this approach to give their students valuable insight into the theory behind control design, giving them the understanding they need to tackle challenging problems, in school and out in the field. This new release increases those abilities by significantly expanding the scope of problems this toolbox can solve.”

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## ***Trimble Delivers 3D Scanning Extension for SketchUp***

14 April 2014

Trimble announced the release of Trimble® Scan Explorer Extension for SketchUp Pro; a powerful, easy-to-use tool enabling architects, engineers and geospatial professionals to create models from 3D scanning data. The new solution connects the high-resolution field data from Trimble scanners with intuitive and powerful professional modeling software; simplifying the process of creating, accessing and sharing precise 3D models of the real-world environment.

# CIMdata PLM Industry Summary

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The [Trimble Scan Explorer Extension](#) dramatically reduces the time required to generate a [SketchUp Pro](#) 3D model from scan data. Streamlined tools and one-touch features allow users to quickly extract construction points and lines that are used as a guide to simplify and expedite the modeling process. Automated plane extraction tools further increase modeling efficiency, particularly when modeling building interiors and facades.

For improved visual references when working with point clouds, the extension includes a simple-to-use edge extraction tool, allowing users to easily decipher important cues from the scan data directly into their model building space. Structural edges are brought into SketchUp as guidelines, and one button push displays the shell of the structure.

"By seamlessly integrating powerful tools across our broad range of best-in-class solutions, Trimble is helping transform the way our customers work and accomplish more every day. The integrated workflow provided by Scan Explorer brings the accessibility of 3D modeling to more users for as-built analysis and design changes," said Alain Samaha, business area director of GIS and Software for Trimble's Geospatial Division. "Professionals can now easily create visual 3D models that provide a true representation of the environment they are working in—improving the communication, collaboration and quality of deliverable that they can provide to their clients."

"SketchUp's enormous popularity as a design tool is rooted in its capacity to make many complex processes easier and more efficient," said Chris Keating, director of the Architecture Division within [Trimble Buildings Group](#). "The Trimble Scan Explorer Extension for SketchUp Pro reinforces our mission to deliver SketchUp's benefits to new users and for new uses."

The release was announced yesterday at SPAR International 2014, the leading conference for 3D data capture, processing and delivery technologies.

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## ***Trimble Launches SketchUp Mobile Viewer for iPad at Basecamp 2014***

15 April 2014

[Trimble](#) today announced the availability of the [SketchUp Mobile Viewer for iPad](#), a new app providing design and construction professionals with convenient, on-the-go access to SketchUp models.

Available in the iTunes App Store, the app allows iPad users to store and access their own 3D models, as well as explore and download models from the entire universe of SketchUp files available in the [3D Warehouse](#). Users also can orbit, pan and zoom around 3D models using multi-touch gestures, and present their own private 3D models to clients and partners.

The app was launched during the SketchUp 2014 [3D Basecamp 2014](#) conference in Vail, Colo., where over 300 power users and enthusiasts from across the globe are gathered to collaborate and learn through various training sessions, presentations and workshops.

The announcement follows Trimble's recent release of [SketchUp 2014](#), which featured major enhancements to 3D Warehouse, as well as new tools for classifying model components and tighter interoperability with other products in Building Information Modeling (BIM) workflows. The SketchUp Mobile Viewer is the first-ever SketchUp tablet product; Trimble plans to add support for Android tablets in an upcoming release.

# CIMdata PLM Industry Summary

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The SketchUp Mobile Viewer is available now for \$9.99 exclusively through the Apple App Store. The app is compatible with iPad 3 or iPad Mini 2 and newer Apple tablets, and with iOS 6 and newer Apple operating systems.

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## ***Zuken Gives CADSTAR Users a Productivity Boost with new High-Speed Routing Features***

15 April 2014

Zuken announces [CADSTAR 15](#).

With high-speed interfaces now almost universal, easing their implementation is vital. CADSTAR's P.R. Editor [now supports impedance balanced routing](#) that simplifies the implementation of high-speed interfaces. Engineers can easily route to JEDEC standards and meet DDR3 performance specifications. This reduces design iterations by helping designers optimize circuits for the highest clock speeds.

“Impedance controlled routing is no longer sufficient. Impedance balanced routing makes it easier for engineers to reduce impedance discontinuities in high-speed manual routing on the same layer, such as lead-in routing specified in JEDEC standard JESD21-C for DDR3 memory.” - Jeroen Leinders, CADSTAR Worldwide Sales Manager

Today's high-speed channels such as DDRx require ever more sophisticated eye pattern analysis for efficient implementation, considering both base and strobe signals. Improved eye patterns in CADSTAR 15 include automatic measurement of eye height/width and setup/hold.

New features in Power Integrity Advance include adjustable gridding for common-mode voltage maps, decoupling capacitor improvements, and a common user interface for result display in all signal integrity and power integrity analysis tools.

Users will appreciate the GUI's updated appearance with familiar ribbon-style navigation. A new panel for item properties gives modeless (docked, floating or auto-hide) operation in Design Editor and Library Editor. This significantly reduces the number of steps to modify the properties of all item types in the design, and allows multi-item selection and changes – saving time during initial design creation and subsequent edits.

CADSTAR is a production-proven, budget-friendly and flexible PCB design solution, with strong positive user feedback for its local support. It has a broad appeal, from small operations up to corporations operating across multiple sites.

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