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## CIMdata News

### *CIMdata Publishes Simulation and Analysis Market Report*

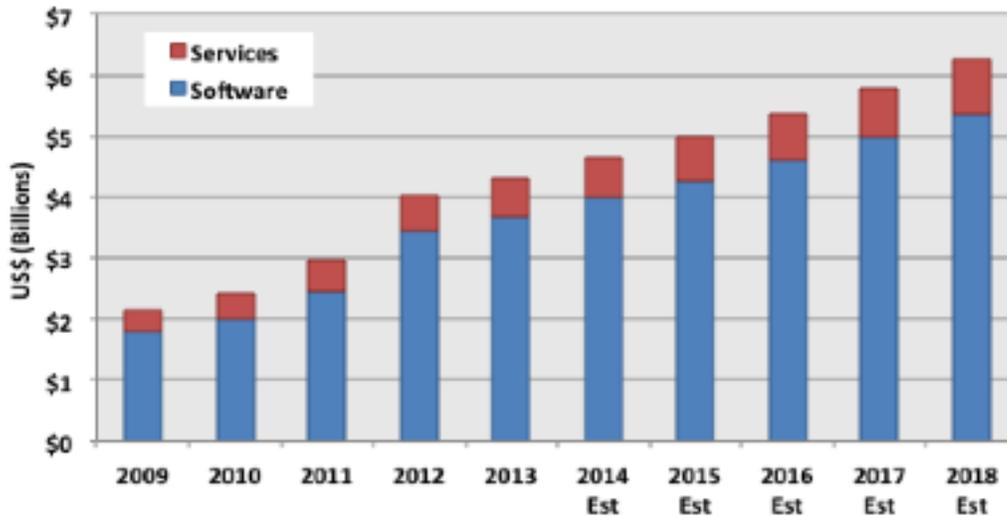
15 July 2014

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the release of the CIMdata Simulation and Analysis (S&A) Market Analysis Report. This report deepens the S&A market analysis conducted as part of the CIMdata 2014 PLM Market Analysis Report Series. The well-known PLM MAR Series provides detailed information and in-depth analysis on the worldwide PLM market during calendar year 2013. It contains analyses of major trends and issues; revenues of leading PLM providers; and revenue analyses for geographical regions, industry sectors, and historical and projected data on market growth. The 2014 S&A MAR is a 57-page report containing over 30 tables and charts of data detailing the worldwide S&A market along a number of dimensions. It also includes an update on CIMdata’s S&A segmentation, a discussion of trends in the S&A industry, and updates on the top S&A solution providers.

Dr. Keith Meintjes, CIMdata’s Practice Manager for Simulation and Analysis stated that: “Simulation and Analysis is being transformed from a tool that has been the analog of physical test for design validation to an essential capability for up-front product definition verification. Vendors are responding by rounding out their portfolios with acquisitions and alliances for systems engineering, simulation, materials properties, topology optimization, multiphysics, and other areas of systems design and analysis.”

As shown in the following chart, in 2013, S&A revenues grew to just over \$4.3 billion, an increase of 7.1% over the \$4 billion in 2012. This growth reflects the increasing importance of S&A as part of product development and the need for companies to deploy better S&A solutions and environments. CIMdata expects that S&A will be one of the more rapidly growing segments within the tools sector of PLM over the next five years, and forecasts that this sector of the market will exceed \$6.2 billion in 2018, with a 7.7% CAGR. For 2014, CIMdata forecasts that the S&A sub-sector will grow 7.5% overall and have revenues of \$4.6 billion.

# CIMdata PLM Industry Summary



## Simulation & Analysis Revenues History and Forecast

“This segment has been the fastest growing in the PLM market for several years, but slowed in 2013,” Stan Przybylinski, CIMdata’s VP of Research. “It is a good sign when ‘slow’ is 7.1%. There is still room for this segment to grow as more companies in more industries use S&A solutions early in the lifecycle. As products get more complex, these solutions will be even more important.”

The 2014 CIMdata S&A Market Analysis Report is available for purchase at:

<http://www.cimdata.com/en/research/plm-market-analysis-report-series>.

## About CIMdata

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

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

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***Product Lifecycle Management Certificate Program set to take place in The Netherlands in October***  
16 July 2014

CIMdata, Inc., the leading global PLM strategic consulting and research firm will bring its highly acclaimed Product Lifecycle Management (PLM) Certificate Program to Amsterdam in the Netherlands from October 20-24. The program is recognized as the PLM industry's most comprehensive solution-agnostic education offering.

The three- or five-day program prepares PLM professionals to successfully address the challenges commonly faced in PLM strategy development and implementation. This assessment-based certificate program includes a personalized classroom experience, individual and team-based exercises, and individual evaluations of achievement. The program is facilitated by a team of CIMdata experts. Upon successful completion of the program, participants receive a CIMdata PLM Certificate and become a member of CIMdata's global PLM Leadership community.

"Over the first six months of 2014 we have seen the number of PLM initiatives significantly go up across Europe. As a result of that increase the demand for PLM education rises as well. Making CIMdata's world-class PLM Certificate program available in Amsterdam will ensure that a wide range of PLM professionals from across industries all over Europe have the opportunity to participate in this valuable program, which has come to be regarded as the de-facto industry standard for PLM education and training," said Mr. Gerard Litjens, CIMdata's Director of European Operations.

The program is built on CIMdata's over 30 years of extensive experience guiding industrial companies in successfully defining and implementing best-in-class PLM strategies and tactics. The program is available to industrial companies that are considering or are already implementing PLM, and to PLM solution and service providers. For more information on CIMdata's PLM Certificate Program visit our website at <http://www.cimdata.com/en/education/plm-certificate-program>.

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## Acquisitions

### *Altair to Acquire Visual Solutions, Inc.*

17 July 2014

Altair announced its intent to acquire Visual Solutions, Inc., makers of [VisSim](#), a visual language for mathematical modeling, simulation, and model-based embedded system development used by scientists and engineers around the world. The transaction is expected to close by the end of July.

"Product innovation is increasingly driven by embedded systems, prompting higher demand for powerful development and testing tools," said Michael Hoffmann, Senior Vice President, Math and Systems at Altair. "Visual Solutions has been at the forefront of this domain for over twenty years. Altair is in the business of helping customers drive innovation by the use of computer-aided engineering in the product development process. A move to expand our portfolio in the direction of embedded systems is a logical extension of the company's commitment to simulation-driven design."

"Partnering with Altair will bring current and future VisSim users many benefits, including integration with a world-class engineering organization and software portfolio," noted Peter Darnell, President and Owner of Visual Solutions. "Moreover, Altair's steadfast commitment to elite customer service and technical support mirrors our own and bodes well for the future."

VisSim is known for its ease of use, attractive user interface, efficient simulation engine, high-quality C-code generation and responsive customer service team. VisSim's simple block diagram notation combined with OMG 2.0 compliant UML State Charts make it easy to create high-fidelity nonlinear dynamic simulations. VisSim supports continuous, discrete and multi-rate systems. VisSim simulations with built-in optimization methods let you experiment without risk to tune controllers, optimize parameters and perform what-if scenarios for critical large-scale projects. VisSim has an extensive library of hydraulic, electro mechanical, digital power and communication blocks to speed simulation creation.

The automatically generated C-Code is tight, readable, and fast and can be targeted to specific microcontrollers like Texas Instruments C2000 and ARM Cortex. Use of automatic code generation shortens software development time and lowers project cost by removing or reducing the need for a C programming staff. The designer gets to a robust, error-free design faster.

The rapidly growing practice of using a single tool chain for modeling and simulation of the controller and plant being controlled, along with automatic code generation of the controller, is known as model-based embedded development. With its simulation capability and advanced code generation, VisSim is particularly well suited to this development method.

VisSim add-ons for OPC, CAN, RS232 serial, UDP, and National Instruments-based analog and digital I/O aid in the development of real-world control systems. To facilitate collaboration, the free VisSim Viewer lets anyone open and run a VisSim diagram.

"I have always been impressed by the performance of VisSim. Compared to other simulation tools on the market, I can create and validate my control system designs more rapidly by flawlessly transitioning from initial, simple concept simulations to higher fidelity versions and then to hardware-in-the-loop simulation. No other tool has been able to match the versatility and simplicity of VisSim," commented Mike Borrello, Principal Controls Engineer at Philips Healthcare, Hospital Division. "I'm really looking forward to seeing how Altair's math and system simulation capabilities will complement VisSim

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functionality in terms of a complete, integrated design environment. I'm excited to get my hands on the next release."

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## ***Stratasys Completes Acquisition of Solid Concepts***

15 July 2014

Stratasys Ltd. today announced the completion of its previously disclosed acquisition of Solid Concepts. Stratasys announced the acquisitions of Solid Concepts and Harvest Technologies on April 2, 2014, and will combine Solid Concepts and Harvest Technologies with RedEye, its existing digital manufacturing service business, to establish one additive manufacturing services business unit. Stratasys expects to complete its acquisition of Harvest Technologies by the end of July.

David Reis, chief executive officer of Stratasys, stated, "We look forward to enhancing our customer offering with the completion of this transaction. With Solid Concepts' deep knowledge of manufacturing and vertical focus, such as medical and aerospace, Stratasys will be even better positioned to meet our customers' evolving additive manufacturing requirements. We are delighted to welcome the talented employees of Solid Concepts to the Stratasys family and look forward to completing the acquisition of Harvest in order to form a leading strategic platform to better meet customers' needs."

Stratasys expects to update its financial guidance to reflect both the Solid Concepts and Harvest transactions in conjunction with its second quarter 2014 financial results.

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## ***U.S. CAD Announces Acquisition of Sterling Systems***

14 July 2014

[U.S. CAD, an Autodesk Gold Partner](#), announces today that it has acquired Sterling Systems, an Arizona-based Autodesk Reseller. The acquisition aligns with U.S. CAD's and Sterling Systems' shared mission to introduce and educate a growing market about CAD and BIM technology solutions.

"We are very excited to join U.S. CAD and leverage the company's expertise to help our customers grow their business and expand their technology investments," says Bruce White, former President of Sterling Systems. "Customers should be assured that they will continue to have access to the same great offerings and excellent service that they have come to expect."

Among some of the other changes following the acquisition include a relocation of the existing Sterling Systems team to a new U.S. CAD Arizona office that will support a training facility. The training facility is expected to offer monthly classes for products such as AutoCAD, Revit Architecture, Civil 3D, and Navisworks.

"For the past few years, Sterling has been a diligent partner for many AEC organizations in Arizona," states Danny Counts, CEO of U.S. CAD. "We look forward to further strengthening these ties and relationships with the local firms by introducing unique U.S. CAD resources and services such as [BIM9](#) and [Knowledge Trax](#). We are very cognizant of the effect this acquisition will have on the

existing customer base, and are dedicated to providing a smooth transition for everyone.”

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## Company News

### ***ANSYS Appoints Robert Kocis as Vice President, Worldwide Sales and Support***

14 July 2014

ANSYS, Inc. today announced that Robert Kocis, a 16 year veteran of PTC Inc. has been appointed Vice President, Worldwide Sales & Support, effective immediately. Kocis will be responsible for providing leadership for the overall strategy and management of the activities of our global sales and support organization, and will be reporting directly to Jim Cashman, President and CEO.

Kocis succeeds Joseph Fairbanks who, as previously announced, decided to resign from the Company to pursue and achieve other career opportunities and personal goals. "Bob brings extensive experience and insights to ANSYS in his new role as the Vice President of Worldwide Sales & Support. With a career that has spanned sixteen years of progressive sales leadership, Bob will bring new perspectives and expertise that will add to the vast amount of talent within the ANSYS global team. We are excited that Bob has joined us to continue to drive our long-term vision of comprehensive, full-fidelity virtual prototypes enabling Simulation-Driven Product Development™," said Jim Cashman, president and CEO. "I would also like to thank Joe for his many contributions to ANSYS over the years and wish him all the best in his future endeavors."

Kocis has more than 20 years of experience in sales leadership and business management roles, and is a 16 year veteran of PTC Inc., a U.S.-based computer software company specializing in 2-D and 3-D design software, product lifecycle management, and service management solutions. At PTC, Kocis has served in a variety of positions, most recently as senior divisional vice president of Asia Pacific Sales and Distribution, where he had strategic sales leadership and general management oversight responsibilities for PTC's operations across Asia. Kocis is a graduate of the United States Merchant Marine Academy with a B.S. in Marine Engineering Systems.

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### ***AVEVA and ETAP Sign Agreement to Deliver Industry First for Electrical Engineers***

15 July 2014

AVEVA and ETAP have signed a partnership agreement under which both companies will jointly develop a software interface between AVEVA Electrical and ETAP's enterprise solution for electrical power systems. The new interface will provide for the first time electrical engineers with a single round-tripping environment for complete data validation from design and network validation to 3D visualisation. The interface will deliver capabilities for efficient design, development and production for the most complex electrical installations in all types of process and power plants, ships and offshore

facilities.

The collaboration means that engineers will be able to introduce an iterative approach to electrical data changes. They can now seamlessly round-trip data between AVEVA Electrical and ETAP as many times as necessary and can use shared data to visualise and perform accurate cable routing in AVEVA Everything3D through an unbroken workflow.

“Last month customers from around the world gathered to test a pre-release version of the new software interface,” said Shervin Shokoo, Chief Operating Officer, ETAP. “The response was overwhelmingly positive. The interface is helping engineers and designers to repeatedly check the validity of electrical engineering plant design and ensure compliance with relevant industry standards.”

“We have been working with ETAP for many years so it is very rewarding to formalise our partnership with such an important project,” said Dave Wheeldon, Chief Technology Officer, AVEVA. “The interface, which can be easily and quickly introduced at any stage of a project, offers a unique opportunity for electrical engineers to take designs from Front-End Engineering Design (FEED) to detailed design and construction and all the way to operations. The benefits are not just realised during design, it allows electrical validation to continue throughout the life cycle of plant.”

AVEVA Electrical is feature-rich software for electrical engineering and design in plant and marine projects. It’s advanced graphical user interfaces, advanced cable routing capabilities, use of design rules and catalogues for data creation; offer maximum workflow flexibility, improving project productivity and design quality. AVEVA Electrical is also part of AVEVA’s Integrated Engineering and Design solution that includes AVEVA Everything3D (AVEVA E3D), which handles routing and cable segregation in the 3D model. Via a two-way interface, this seamlessly integrates 3D model to create accurate design information.

ETAP is the global market and technology leader in electrical power system modeling, design, analysis, optimization, and predictive real-time solutions. The Company’s software technologies ensure that power systems are designed for optimal reliability, safety, and energy efficiency; when deployed in real-time mode, they enable organizations to manage energy as a strategic asset, maximize system utilization, lower costs, and achieve higher levels of financial stability. Visit [www.etap.com](http://www.etap.com) for more information.

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## ***Bluebeam Software Named to 2014 Constructech 50***

15 July 2014

[Bluebeam® Software](#) has been named to the [2014 Constructech 50](#) by *Constructech Magazine*. For the fourth year in a row, Bluebeam makes the listing of the most influential construction technology providers with a strong and ongoing market presence.

The *Constructech 50*, unveiled in the July/Aug issue of Constructech magazine, honors the top technology companies serving both the residential and commercial construction segments. The editors of Constructech magazine evaluate firms based on ongoing customer satisfaction and growth, having a strong product/service aimed at the construction industry and industry outreach and educational efforts.

Common among the *Constructech 50* companies are platforms incorporating cloud-based systems and mobility. Bluebeam’s flagship PDF-based solution, [Revu®](#), enables users to digitally access, markup and edit project files from a desktop, tablet PC or iPad. Teams can share feedback in real time, or

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anytime, through Revu's integrated cloud collaboration solution, [Bluebeam Studio™](#).

"Bluebeam continues to push the limits of digital document management so that our customers can design, build and work better," said Richard Lee, President and CEO of Bluebeam Software.

"Technology introduced and refined in Revu 12 enables more field-friendly project communication to streamline workflows and get projects finished faster."

Features in Revu 12 that push the limits of project management and communication include:

- Batch Link, which automatically creates an unlimited number of hyperlinks by file name, page label or page region for one-click access to project files.
- AutoMark 2.0, which generates page labels and bookmarks from combining multiple page regions, even on scanned documents, to get PDFs in order.
- Capture, with the ability to add multiple photos from the field, or an image library, to any markup which provides more details, clarity and context.
- Bluebeam Studio daily email summaries of changes to project documents so team members can stay up to date and in the know.

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## ***CCE Updates Design and Manufacturing Services Site***

15 July 2014

CCE announced the release of the newly designed [www.cceintl.com](http://www.cceintl.com) website. The revised site is designed with a fresh look and user-friendly navigation, updated with the latest information about CCE's engineering and manufacturing services.

"CCEINTL.com redesign offers improved overview and usability, clear and concise messaging as well as an optimized navigation structure," said CCE's V.P. of Sales & Marketing Vinay Wagle. "The site offers customers and site visitors the ability to swiftly gain access to information on our innovative design and manufacturing services."

Now current and future customers have direct access to the information they need based on their preference. The site is divided into two service sections: Manufacturing and Engineering, making it easier for visitors to view specified services by category. The redesign provides improved navigation and functionality, by moving to a more detailed service and customer-focused layout.

"Our new website is just the beginning of our efforts to improve user experience, streamline product specification and educate visitors on our products and services. I am delighted that we've built a site that offers better communication and interaction with consumers," added Wagle.

The website provides an easier way for customers to submit inquiries, quoting requests and find information on offshore design and manufacturing tasks. For more information on CCE or to view services, visit [www.cceintl.com](http://www.cceintl.com).

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## ***EcoCAR 2 Team from University of Victoria Wins MathWorks Award for Model-Based Design***

17 July 2014

[MathWorks](#) today announced that University of Victoria has won the MathWorks Modeling Award as part of the [EcoCAR 2](#) collegiate engineering competition. The award recognizes the team's use of [MATLAB](#) and [Simulink](#) for [Model-Based Design](#) during the three-year project-based learning competition where students were tasked with the real-world challenge of reengineering a 2013 Chevrolet Malibu by improving its fuel efficiency and reducing its emissions while retaining its performance and consumer appeal. Other schools to place included Ohio State University and Virginia Tech, winning second and third place respectively.

Through the use of modeling and simulation, the teams solved the engineering challenge at hand, demonstrating a possible solution through a presentation and Q&A session coinciding with the conclusion of the three-year competition. Winners were assessed on how well they applied Model-Based Design concepts using MathWorks tools, including the key areas of plant modeling, control design and tuning, data analysis, and industrial grade Model-Based Design development process elements.

“Student competitions are a great hands-on, project-based learning opportunity that challenges our next generation of engineers with real-world technical problems,” said Paul Smith, Consulting Services, MathWorks. “Students gain valuable experience with the hardware and software used in professional environments in solving everyday engineering problems. MathWorks was very impressed with the students’ ingenuity when applying Model-Based Design concepts while using MATLAB and Simulink.”

Learn how these EcoCAR 2 teams define Model-Based Design and what it means to them in these two videos: [University of Victoria](#) and [Ohio State](#).

Learn how [Virginia Tech](#) used MATLAB and Simulink to develop controls for their EcoCAR 2 in this video.

To be eligible for the award, teams must be active participants in EcoCAR 2: Plugging In to the Future, a competition organized by the U.S. Department of Energy and General Motors. The teams use Model-Based Design, an approach in which a virtual model is at the center of system development, from initial design and simulation through testing and implementation. The contestants used online and offline parallel optimization of fuel economy at the vehicle level.

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## ***ESI Group: Proposal to Nominate Two Independent Directors***

17 July 2014

The Board of Directors of [ESI Group](#), on the recommendation of the Compensation, Nomination and Governance Committee, will propose the nomination of two new independent directors, Ms Véronique Jacq and Ms Rajani Ramanathan, at the next Annual General Meeting on 24 July 2014.

Alain de Rouvray, Chairman and Chief Executive Officer of ESI Group, said: “We are delighted to propose the nomination of Véronique Jacq and Rajani Ramanathan to the Board of Directors of ESI Group. Their unique experience in the digital industry and extensive knowledge of innovative

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companies will be invaluable to the Board and its committees, supporting the international and multicultural development of ESI Group and its technological leadership with a strong social and environmental bias.”

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## ***GRAPHISOFT Receives Two Best of Show Awards at AIA 2014***

15 July 2014

GRAPHISOFT® has been recognized with two Best of Show awards from Architosh, an online publication devoted to Mac and iOS CAD and 3D software professionals and students. The awards are announced based on software and technology that was exhibited at this year's AIA National Convention in Chicago, IL, June 26-28.

[Architosh](#) Editor-in-Chief Anthony Frausto-Robledo, AIA, LEED, AP selected what he considered the best software in four categories: Desktop, Mobile, BIM and Innovation. GRAPHISOFT products were awarded with honors in two out of the four categories, Mobile and BIM. In the mobile category, the Best of Show honor went to BIMx Docs.

Of BIMx Docs, Frausto-Robledo said, in part, “BIMx Docs does something no other app in the world does. It has laid down the ultimate UI/UX paradigm for how to visually connect BIM geometry models to the visual world of 2D drawings, something the public for the most part still assumes architects spend most of their day doing. ...BIMx Docs is an elegant and useful tool to bring BIM model data and their associated drawings into the field or the remote client office.”

ArchiCAD 18 with BIMcloud took Best of Show in the BIM category.

"Graphisoft's ArchiCAD 18 with BIMcloud™ technology ... is very impressive. Graphisoft's delta technology is already in a class by itself because it reduces the transferred difference data (delta) down to 100 kilobyte chunks, something that is more than an order of magnitude smaller than its biggest rival. What's really impressive to me is that you can scale up through the cloud without stopping your teams and access to the BIM data."

“We are pleased and honored ArchiCAD 18 with BIMcloud™ and BIMx Docs were selected by the Architosh editors for Best of Show awards,” said Steve Benford, GRAPHISOFT North America managing director. "BIMx Docs and ArchiCAD 18 are yet again proof positive of GRAPHISOFT's ongoing commitment to providing the AEC space with tools to support creative design and enhance the creative flow.”

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## ***Ideate, Inc. Named Autodesk Q1 Reseller of the Quarter***

17 July 2014

[Ideate, Inc.](#), an Autodesk, Inc. [Gold](#) Value Added Reseller, today announced that Autodesk, Inc., has named Ideate, Inc. its North American Reseller of the Quarter for the First Quarter 2015 Autodesk fiscal

year.

Reseller of the Quarter is chosen from more than 200 partners throughout North America, based on conscientious customer support, use of best practices, industry knowledge and dedication, and exceptional sales growth. The honor underscores the Ideate, Inc. commitment to customer satisfaction and its attention to customer loyalty. The Reseller of the Quarter designation is in part an acknowledgement of Ideate experiencing 72 percent increase in software license sales to customers in AEC and media & entertainment (M&E) in addition to significant new license and Autodesk Subscription sales.

"Ideate earned the title of Reseller of the Quarter because of its commitment to customers' said Bill Griffin, vice president worldwide channel sales, Autodesk. "Ideate demonstrates best practices as it drives the adoption of our software. We're looking forward to our continued collaboration to address the growing and changing needs of our joint customers. "

Ideate Inc., an Autodesk solutions source for nearly three decades, helps the AEC professional community fully implement the expanded Autodesk solution set. Ideate provides technical training and consulting resources to meet industry specific customer needs and also hosts various in-person and virtual events to help educate its clients, providing them with updated information in the latest industry trends and technologies.

"To be acknowledged as Autodesk Reseller of the Quarter North America confirms our success in achieving our mission to help our customers succeed and win even more new business. Our customers' success is our yardstick to measure our own success," says Ideate President Bob Palioca. "To overwhelmingly delight our customers with complete solutions brings us satisfaction, so this designation certainly delights us."

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## ***Mastercam Certification a Big Deal in Florida***

17 July 2014

Mastercam Certification is a rigorous set of knowledge-based and practical tests that demonstrates a programmer's ability to work effectively with CAM software, overcome common issues facing today's shops, and produce high quality finished parts. CNC Software Inc. offers Certification in Mastercam. There are two Certification levels you can achieve-Associate Level and Professional Level. Associate Level is comprehensive testing based on the latest technologies while Professional Level includes the comprehensive testing combined with a practical application component.

There are many benefits of Mastercam Certification. Programmers and machinists who complete the Mastercam Certification program carry with them a useful means of quickly proving and validating their Mastercam skills in an increasingly demanding industry. And, for an employer, by hiring Mastercam Certified employees, you are guaranteed to get the level of experience and expertise that you demand.

Last month, over 400 students got certified in Mastercam CAD/CAM software in the Broward and Dade Counties. In Florida, Mastercam is on the recognized list for funding, therefore schools can get reimbursed money for each student that gets industrial certification.

"This is a big deal because of the amount of students that are getting certified", says Dustin Spieth, Corporate Educational Office, who goes down to Florida each year to administer the Certification

## CIMdata PLM Industry Summary

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program.

While in Florida each year, Dustin conducts a class to get any new instructors up-to-speed on the Certification program and also show existing instructors any new changes to the Certification program.

The Mastercam Instructor Certification program recognizes instructors employed by a school or organization that is going above and beyond typical CAD/CAM instruction. In the state of Florida, the state requires any instructor that is certifying students to have already obtained the same certification.

"By becoming certified in Mastercam, you are proving to others that you have Mastercam skills, and you are proving to future employers that you are experienced and worthy of being hired," says Dustin.

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### ***PaperFree Corporation Joins EMC Information Intelligence Group Consulting Preferred Partner Program***

18 July 2014

PaperFree Corporation today announced that it has been selected to join the EMC Information Intelligence Group Consulting Preferred Partner Program (C3P). C3P is a new EMC program that consists of a small group of elite, "go to" partners who will work in conjunction with the IIG Consulting team to drive customer success. C3P partners, like PaperFree Corporation, have been selected based on their certified, highly-skilled consultants and proven track record of meeting customer requirements with Documentum-based technology.

PaperFree Corporation is a longtime partner of EMC focusing primarily on information capture and management. Considered among those in the industry to be the leading experts in EMC's Captiva and Documentum product lines, PaperFree regularly provides customers with new and innovative means to capture and manage business critical information throughout the enterprise.

In joining C3P, PaperFree Corporation can work with EMC's IIG Consulting and Partner teams on joint selling opportunities and customer engagements. PaperFree Corporation has undergone rigorous testing and certifications to demonstrate their abilities to meet the high-quality standards customer demand for business-critical solutions.

"EMC is pleased to welcome PaperFree Corporation to our Consulting Preferred Partner Program," said John O'Melia, Senior Vice President of Worldwide Services for the Information Intelligence Group division of EMC. "Companies around the world rely on EMC and our trusted ecosystem of partners for solutions to transform their business. As a C3P partner, customers will have confidence in the quality and consistency of delivery provided by selected partners such as PaperFree Corporation."

PaperFree's President and CEO, James Robinson, said, "PaperFree is pleased to be invited into such a prestigious and highly regarded group of trusted delivery partners. EMC spends a great deal of time and effort ensuring that their solution delivery engagements meet the highest standards. PaperFree will be a great addition to continue that high level of excellence moving forward."

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### ***Siemens Expands Strategic Partnership with Penn State through Multi-Million Dollar Software***

# CIMdata PLM Industry Summary

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## *Grant to Prepare Future Manufacturing & Engineering Workforce*

16 July 2014

Today, from the National Constitution Center, Siemens strengthened its 25-year relationship with The Pennsylvania State University by announcing a major in-kind grant of product lifecycle management (PLM) software with a commercial value of \$750 million to enhance academic and research programs. Students at Penn State will now have access to the same Siemens 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, medical devices, machinery, shipbuilding, and high-tech electronics.

“The manufacturing industry in America is on the rise and it is being transformed by a software revolution that is enhancing productivity, increasing efficiency and speeding time to market,” said Chuck Grindstaff, president and CEO, Siemens PLM Software. “This revolution requires a highly trained workforce. With this grant, Penn State will be able to integrate world-class PLM technology into its curriculum, so that its students are even better prepared for co-op assignments and for high quality manufacturing jobs.”

The in-kind donation builds upon the first-of-its-kind partnership between Siemens and a U.S. university, which was formalized with the Siemens One strategic alliance launched in 2012. This enhanced alliance extends the breadth and depth of the relationship between Siemens and Penn State in healthcare, infrastructure, energy and sustainability. Penn State will continue to benefit from improved research collaborations, student programs, recruiting, and engagement across a wide range of academic programs.

As software plays an increasing role in the next era of manufacturing, the in-kind grant is designed to support programs at nine Penn State Commonwealth Campuses in the Philadelphia region and throughout Pennsylvania. These campuses will incorporate PLM software into student course work and research related to computer-aided-design, engineering simulation, industrial design, digital manufacturing and manufacturing management. Penn State Great Valley will use the PLM software as it builds a new Engineering Center and Multidisciplinary Engineering Design degree program in conjunction with the Abington and Brandywine campuses.

“The Siemens PLM software will be a crucial tool as we educate our students to become leaders and innovators in the manufacturing industry,” said Craig Edelbrock, chancellor of Penn State Great Valley.

“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. “Our enhanced partnership expands the longstanding relationship between Siemens and Penn State and offers students valuable academic and workforce opportunities to start careers in this high-tech industry.”

Through this enhanced alliance, students will develop the advanced manufacturing and design skills sought after by the more than 77,000 global customers who utilize Siemens' software and technology solutions. More than 200 businesses throughout the state of Pennsylvania and in the Philadelphia region rely on Siemens' PLM software including employers such as FMC Technologies and Kennametal Inc.

More than 6,100 Siemens employees are based in the Philadelphia area including over 200 U.S. military veterans. Just outside of Philadelphia, Malvern is home to Siemens U.S. Healthcare business and also serves as the global headquarters for Siemens Healthcare IT business. Nearby in Plymouth Meeting,

# CIMdata PLM Industry Summary

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Siemens has a 12,000-square-foot manufacturing facility that produces ultrasounds, including Siemens' wireless ultrasound – the Acuson Freestyle. Statewide, more than 7,600 Siemens employees work throughout Pennsylvania.

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## ***Vero Software Debut in the Sunday Times HSBC International Track 200 League Table for International Sales Growth***

14 July 2014

Making their debut, Vero Software were placed 28<sup>th</sup> in the fifth annual Sunday Times HSBC International Track 200 league table. Published at the weekend, the report names Vero Software as the South West region's highest-ranked company. A string of acquisitions helped overseas sales climb 80 per cent per annum to £58.5million in 2013.

Ian Stuart, head of HSBC UK commercial banking, said: "The Sunday Times International Track 200 continues to provide an interesting insight into the important contribution that privately-owned mid-market companies make to the UK economy, and this year's league table symbolises the dynamism and innovation this group of companies with international ambitions are famed for."

Richard Youhill, general manager at Vero Software, said: "It is great to be recognised in the Sunday Times for the achievements we have had expanding our business overseas. This also comes on the heels of our second Queen's Awards for Enterprise for international trade. We have been involved with international markets right from the outset when we established in 1988. The company has grown to employ over 560 staff and is located throughout the world, although obviously our feet and roots are here in Gloucestershire."

The International Track 200 is sponsored by HSBC and compiled by Fast Track, the Oxford-based research and networking events company.

<http://www.fasttrack.co.uk/fasttrack/leagues/int200leaguetable.asp?siteID=8&searchName=&yr=2014&sort=num&area1=99>

Vero has direct offices in the UK, Germany, Italy, France, Japan, USA, Brazil, Netherlands, China, South Korea, Spain and India supplying products to more than 45 countries through its wholly owned subsidiaries and reseller network.

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## Events News

### ***CGTech to Show VERICUT Composite Applications at CAMX***

14 July 2014

At CAMX, October 13-16, 2014, CGTech will be demonstrating the process of programming automated

composite machinery.

Visitors to CGTech's booth, #3656, will have the opportunity to receive a thorough overview of the steps needed to get from a CAD designed composite part to CNC programs that drive an Automated Fiber Placement (AFP) or Automated Tape Laying (ATL) machine.

"Manufacturers of AFP and ATL machinery typically supply in-house developed off-line NC programming software with their machine, forcing companies to inconveniently adopt multiple software applications for multiple brands of machines," said CGTech Product Marketing Manager Bill Hasenjaeger. "But to survive in this industry, a company must be able select the best solutions for the job, without the cost and risk associated with being locked to a single machine supplier."

Throughout the show, CGTech will be demonstrating VERICUT Composite Applications: VERICUT Composite Paths for Engineering (VCPe), VERICUT Composite Programming (VCP), & VERICUT Composite Simulation (VCS).

VCPe gives the user the ability to measure and evaluate the effects of AFP and ATL path trajectory, material steering, surface curvature, course convergence, and other process constraints as they would be applied in manufacturing. The software also provides produceability analysis of the fiber angle based on the curvature of the part, and overlap and gaps needed for structural analysis. Tape course geometry can be written to various CAD formats for further evaluation by the user's existing analysis methods and tools.

VCP reads CATIA V5, STEP, or ACIS surface models. It also reads Fibersim, CATIA V5, or other external ply geometry and information. VCP then adds material to fill the plies according to user-specified manufacturing standards and requirements. Layup paths are linked together to form specific layup sequences and are output as NC programs for the automated layup machine.

VCS reads CAD models and NC programs, either from VCP or other composite layup path-generation applications, and simulates the sequence of NC programs on a virtual machine. Material is applied to the layup form via NC program instructions in a virtual CNC simulation environment. The simulated material applied to the form can be measured and inspected to ensure the NC program follows manufacturing standards and requirements. A report showing simulation results and statistical information can be automatically created.

CGTech will also be exhibiting its latest version of VERICUT software. VERICUT is CNC machine simulation, verification, and optimization software that enables users to eliminate the process of manually proving-out NC programs. VERICUT simulates all types of CNC machining, including drilling and trimming of composite parts, water jet, riveting, robotics, mill/turn, and parallel kinematics. VERICUT runs standalone, but can also be integrated with leading CAM systems.

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***Come and see TopSolid 7 LIVE in Action at IMTS 2014, Chicago, September 8-13, Booth #E3236***

15 July 2014

The International Manufacturing Technology Show (IMTS) is one of the largest industrial trade shows in the world, featuring 1,900 exhibitors and 100,000 visitors. The 2014 edition will be held in Chicago from September 8th to 13th and Missler Software will present live demos on booth #E3236.

# CIMdata PLM Industry Summary

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The French software developer will present its integrated PDM/CAD/CAM software range and in particular TopSolid'Cam 7.8, its latest CAM software.

Here are some of TopSolid'Cam's new functionalities which will be presented on this show:

TopSolid'Pdm Server 7, the essential solution to manage your company's technical data

TopSolid'Pdm is a complete, easy-to-setup and use solution to manage all your technical data.

TopSolid'Pdm seamlessly manages all the relationships between your documents, from design through to manufacturing. TopSolid'Pdm centralizes all information related to a product that can be difficult to find (CAD designs, specification sheets, enhancement requests, design notes...) in one location, and thus improves product quality by eliminating errors associated with incomplete or duplicate data.

Thanks to its role-specific user interface, TopSolid'Pdm provides users with interactive and intuitive visualization, allowing them to quickly navigate through projects. Easy-to-understand concepts to find and manage files help increase productivity.

Reduce machining times by 50% with VoluMill TopSolid Edition

Missler Software has chosen to integrate Volumill machining strategies into TopSolid'Cam 7.8 to be able to offer its customers the best algorithms on the market for toolpath calculation. VoluMill toolpaths use smooth, flowing motion, eliminating sharp directional changes and variances in tool load. Using VoluMill in place of traditional roughing routines will reduce your cycle times, extend the life of your cutting tools, and place considerably less stress on your machine tools, thereby reducing your costs while increasing your productivity.

Depending on the material and topology in question Missler Software has observed significant time gains in machining operations (up to 70% in the best of cases), extended tool and machine life thanks to the use of VoluMill. Completely integrated with TopSolid'Cam, VoluMill is available as an option in TopSolid'Cam 7.8.

TopSolid'NC SIMUL for perfect G code simulation

Missler Software integrates the well-known G code simulation software, NCSIMUL Machine, as an option which can be used directly within TopSolid'Cam.

The combination of the two will leverage an incredible security and insurance throughout the machining process and programming stages for the customer, especially required when the part is a very expensive one, or when the machining cycle takes hours as well as the final tuning of the tool path, close to the machine in the workshop. TopSolid'NCSIMUL is positioned as an affordable solution that is well positioned both in terms of technology and pricing. TopSolid'NCSIMUL offers substantial time savings thanks to error detection and CNC programs validation.

Increase of the CAD/CAM productivity thanks to the integration of Adveon in TopSolid 7

Smart software with all the necessary functions for the management of cutting parts, collisions and driven points, Adveon provides access, via the Internet, to any supplier's tool library, CAD/CAM productivity is thus increased thanks to the provision of the catalog including all the relevant information (geometry and cutting conditions).

The target is potentially manufacturing engineering and company workshops equipped with numerically controlled machine tools.

The library allows a whole database of tools to be quickly built and provides automatic access to 3D CAD models for precise simulation and visualization. Manual entry is minimized, ensuring the consistency and quality of data.

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## ***COMSOL at SEMICON Europa 2014***

15 July 2014

COMSOL will be present at the first edition of the SEMICON Europa in Grenoble. This exhibition is the largest event dedicated to the future of designing and manufacturing micro and nanoelectronics in Europe.

Based on innovation with a special focus on energy efficiency, the SEMICON Europa 2014 is not-to-be-missed. In order to discover the capabilities of COMSOL Multiphysics®, join us on 7-9 October 2014. You can find them at the Minalogic's cluster space. It will also be the opportunity to meet their experts in simulation and modelisation and discuss your future projects.

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## ***Delcam to launch new PowerSHAPE Pro CAD for CAM at IMTS***

14 July 2014

Delcam will launch the 2015 version of its PowerSHAPE Pro CAD for CAM system for modelling for manufacture and reverse engineering at IMTS 2014 in Chicago from 8th to 13th September on booth E3222, the largest CAM software booth at the show. The new release will include improvements in direct modelling, surface modelling and reverse engineering, plus support for data from Creaform HandySCAN hand-held scanners.

For more information on PowerSHAPE Pro, please go to [www.powershape.com](http://www.powershape.com)

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

The improvements in direct modelling build on the introduction of the Smart Feature Manager and the Smart Feature Selector in recent releases. The Smart Feature Manager allows users to identify all the features, such as fillets, slots, bosses etc, within a solid in a single operation and so makes the analysis of the imported data easier and faster. The Smart Feature Selector then allows multiple similar features to be found and selected using either a specific value or a range of values.

Once the particular group has been selected, all the features within it can be edited simultaneously. For example, all holes having a diameter of 5mm can have their diameter increased to 10mm in one operation.

This new functionality will speed the preparation of models for manufacturing significantly. For example, one common problem in product designs that are to be moulded or cast is that fillet sizes are set so small that they restrict the flow of material. The Smart Feature Selector can be used to identify

## CIMdata PLM Industry Summary

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any fillets below the required radius and then all the fillets found can be increased to the desired minimum size simultaneously.

Another potential application is in tidying up models created by reverse engineering, where features that are intended to be identical, such as a series of holes, will often show small variations. In such cases, all the items within a specified tolerance band can be selected and then all adjusted together to the same precise size.

One of PowerSHAPE Pro's great strengths has always been its surface modelling capabilities, giving the user the ability to create any shape they can imagine. These capabilities have been further improved with new dynamic point editing. Multiple points, either along a single curve or picked from multiple curves, can now be selected and moved, with real-time updating of the model. This makes styling of free-form shapes easier and quicker, and also speeds up modelling for manufacture tasks like removing undercuts from tooling designs.

Another strong area for PowerSHAPE Pro that has also been made faster and easier is the ability to morph complete models into a new shape. One key application for this option is in compensating for springback in press tools or warpage in moulded products. The user can alter CAD directly based on scan data from a sample part collected as a point cloud or as a triangle mesh, with a choice between either updating the CAD model of the part to match the as-produced item or adjusting the tooling design so that it can produce parts matching the original CAD data.

Another important application of morphing is in updating parts that need to be repaired but that have changed their shape during use. A typical example is turbine blades that have been distorted by heat so that their shape no longer matches the CAD data used for their manufacture. Again, the original CAD data can be adjusted to match scan data captured from the actual part.

The main enhancement to PowerSHAPE Pro's reverse engineering functionality is a more automated method for capturing cross-sections through a mesh. The software now fits lines and fillets to the cross-section where it can, with the user able to control the tolerance used. This method uses the mesh as a guide instead of treating it as exact geometry with the priority of capturing the design intent rather than ensuring a precise fit to the scan data.

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### ***GibbsCAM UKM (Universal Kinematic Machine) Unveiled at IMTS 2014***

14 July 2014

Gibbs and Associates announced today that they will introduce GibbsCAM UKM (Universal Kinematic Machine), the brand-new engine behind the upcoming release of GibbsCAM 2015, at IMTS 2014, September 8–13, 2014, at McCormick Place, Chicago, in Booth # E-3310. GibbsCAM UKM is a complete reengineering of the CAM engine and how it relates to machine definitions and machine tools, blurring the line between the definition of mills and lathes.

Bill Gibbs, CEO and President of Gibbs and Associates explains: “CAM systems were designed based on the way mills and lathes were originally created to move. Mill-turns and multi-task machines (MTM) started merging the two. GibbsCAM UKM was created from the ground up with no limitations. It can handle any number of axes in any direction, with multiple tools cutting simultaneously. With

# CIMdata PLM Industry Summary

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GibbsCAM UKM, users can program and accurately simulate virtually any machine today and even machines that haven't been invented yet.”

A complete paradigm shift, the benefits of the GibbsCAM UKM engine extend throughout the entire product line, not just those areas relating to complex machines. Dramatic improvements to rendering and Machine Simulation provide the most accurate simulation available, giving customers the confidence that what they see on the computer screen is what will happen at the machine. Machine simulation and post processors are built on the same kinematic model, optimizing the programmer's time and ensuring complete accuracy.

The new UKM architecture is backward compatible, so current post processors and machine simulation models for GibbsCAM will continue to provide a return on investment. In addition, customers will be able to program and simulate the most complex machines on the market, including machines from Bumotec, Citizen, DMG MORI, Doosan, Matsuura, Mazak, Nakamura-Tome, Okuma, Star, Tornos, Willemin-Macodel, and many others.

Significant changes have been made to the tooling functionality of GibbsCAM 2015. In addition to new tool types being added (Barrel, Dovetail, Convex Tip, E-style ISO insert, and tools defined by solids), GibbsCAM now has dynamic 3D viewing of tools and tool-holders in the tool dialog, allowing users to accurately visualize the tools they are selecting for the job.

An entire new category of tooling has been added called Intermediate Tooling. This allows for items that are neither tools nor fixed parts of the machine, such as fixtures (chucks, tailstocks, steadyrests) and toolblocks (adapter blocks, holders for toolholders, and the like). Programmers can create libraries of toolblocks to easily setup complex machines, and can share those libraries across different parts, saving time and reducing errors.

GibbsCAM 2015 has significant improvements throughout the product line, from geometry creation to toolpath strategies, including additional High Speed Machining (HSM) strategies. New functionality has been added to aid in the importing and machining of hole features. Holes are now treated as fully associative features of solid bodies, including those imported from SolidWorks, Solid Edge, Autodesk Inventor, or CATIA V5. Compound holes (holes with multiple segments that might each be tapered or threaded) are now supported as well. New Geometry tools include improved spline editing and contour tracing capabilities. Improvements to machining include new Adaptive Roughing capabilities, pre-drilling and background processing for VoluMill, and many new capabilities for the Tombstone Management System, which has long been recognized as the most comprehensive software for programming parts on a tombstone.

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## Financial News

### ***ANSYS to Release Second Quarter 2014 Earnings on August 5, 2014***

15 July 2014

ANSYS, Inc. announced today that the Company expects to release its second quarter 2014 earnings on Tuesday, August 5, 2014. The Company will hold a conference call conducted by James E. Cashman III, president and chief executive officer, and Maria T. Shields, chief financial officer, at 10:30 a.m. Eastern

# CIMdata PLM Industry Summary

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Time to discuss second quarter 2014 results and future outlook.

## CONFERENCE CALL INFORMATION:

What: ANSYS Second Quarter 2014 Earnings Conference Call

When: August 5, 2014 at 10:30 a.m. Eastern Time

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

### To pre-register, go to:

<http://dprester.com/10049814>

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

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

The call will be recorded with replay available within two hours after the call

at <http://investors.ansys.com/events-and-presentations/events.aspx> or at (877) 344-7529 (US) or (412) 317-0088 (CAN and INT'L). Passcode: 10049814

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## ***HP Board Declares Regular Dividend***

17 July 2014

The HP board of directors has declared a regular cash dividend of \$0.16 per share on the company's common stock.

The dividend, the fourth in HP's fiscal year 2014, is payable on Oct. 1, 2014, to stockholders of record as of the close of business on Sept. 10, 2014.

HP has approximately 1.9 billion shares of common stock outstanding.

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## ***Infosys Announces Results for the Quarter Ended June 30, 2014***

11 July 2014

Q1 revenue growth at 7.1% YoY in USD terms;

Q1 EPS at \$ 0.84; YoY growth of 15.1%;

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

# CIMdata PLM Industry Summary

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## Financial Highlights

Consolidated results under International Financial Reporting Standards (IFRS) for the quarter ended June 30, 2014

Quarter ended June 30, 2014

- Revenues were \$ 2,133 million for the quarter ended June 30, 2014  
QoQ growth was 2.0%  
YoY growth was 7.1%
- Net profit was \$ 482 million for the quarter ended June 30, 2014  
QoQ growth was (1.0%)  
YoY growth was 15.3%
- Earnings per share (EPS) was \$ 0.84 for the quarter ended June 30, 2014  
QoQ growth was (1.2%)  
YoY growth was 15.1%
- Liquid assets including cash and cash equivalents, available-for-sale financial assets, certificates of deposits and government bonds were \$ 4,943 million as on June 30, 2014 as compared to \$ 5,048 million as on March 31, 2014

## Other Highlights

Infosys and its subsidiaries

- Added 61 clients during the quarter
- Added 11,506 employees (gross) during the quarter

161,284 employees as on June 30, 2014 for Infosys and its subsidiaries

"We continue to enjoy the confidence of our clients by demonstrating superior execution capability and value realization," said S. D. Shibulal, CEO and Managing Director. "As I transition the CEO mantle to Vishal, I am confident that he will leverage this strong foundation to take Infosys to greater heights. I wish him the very best."

"We saw positive trends in our large deal wins during the quarter. We believe that this momentum will hold us in good stead as we focus on increasing volumes," said U. B. Pravin Rao, COO. "Employee attrition rates are worrisome and we are implementing various initiatives to retain good talent."

"We improved operational performance as a result of our cost optimization initiatives and a focus on increasing productivity and utilization. This partially offset the impact of compensation increases for our employees this quarter," said Rajiv Bansal, CFO. "It will help us invest in areas that will accelerate growth."

To view an unabridged version of this press release, visit: <http://www.infosys.com/investors/reports-filings/quarterly-results/2014-2015/q1/Documents/IFRS-USD-press-release.pdf>

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**SAP Announces Second Quarter 2014 Results**

17 July 2014

# CIMdata PLM Industry Summary

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[SAP SE](#) today announced its financial results for the second quarter and first half ended June 30, 2014.

## **BUSINESS HIGHLIGHTS IN THE SECOND QUARTER 2014**

SAP again delivered strong growth in the cloud and a solid performance in its core business. With non-IFRS cloud subscriptions and support revenue increasing 39% at constant currencies (32% at actual currencies) SAP is the fastest growing enterprise cloud company at scale. Non-IFRS software and software-related service revenue grew 8% at constant currencies (4% at actual currencies).

At the Company's user conference SAPPHIRE NOW in May, SAP launched the "Run simple" strategy with cloud and SAP HANA at its core to simplify the business experience and consumption for its customers. SAP HANA is radically simplifying the technology stack. Cloud is radically simplifying the consumption of SAP solutions. As a first example for "Run simple" the Company has included the SAP Fiori user experience within underlying licenses of SAP software.

"We are successfully executing our shift to the cloud helping customers run simple – from total workforce management in the cloud to frictionless commerce through the world's largest business network," said Bill McDermott, CEO of SAP. "And we are redefining customer engagement with our omni-channel e-commerce platform – all of this in real time demonstrating our clear commitment to be THE Cloud Company powered by SAP HANA."

"With 8% constant currency growth in non-IFRS software and software-related service revenue we are delivering solid growth at the high end of our full year outlook range. We continue to improve our profitability with operating profit up 7% on a non-IFRS constant currency basis leading to double-digit growth in non-IFRS EPS," said Luka Mucic, CFO of SAP. "As we continue to expand our cloud business we have increased our full year non-IFRS cloud subscriptions and support revenue outlook to €1,000 – €1,050 million at constant currencies."

SAP's annual cloud revenue run rate is now approaching €1.2 billion or \$1.6 billion. Non-IFRS calculated cloud billings increased 37% year-over-year at constant currencies. Non-IFRS deferred cloud subscriptions and support revenue was €448 million as of June 30, 2014, a year-over-year increase of 29% at constant currencies. SAP's cloud applications total subscribers now exceed 38 million, which is the most of any enterprise cloud vendor in the industry today. The Company has also launched "Industry Cloud" to build the deepest and broadest industry cloud solutions.

SAP is redefining customer engagement. Its hybrid omni-channel e-commerce platform in combination with Cloud for Sales saw triple-digit growth in software revenue and cloud subscriptions and support revenue.

SAP is enabling the global "Network Economy" with approximately 1.55 million connected companies on the world's largest cloud-based business trading community. Trailing 12 month Ariba network spend volume was approximately \$540 billion – two times the size of Amazon and eBay combined. The addition of Fieldglass expands our network capabilities by increasing our addressable market to cover flexible workforce in addition to materials and services.

The company saw continued broad market adoption of SAP HANA as the Real-Time Business Platform across all industries and regions. SAP HANA is at the core of the Company's "Run simple" strategy: integrating all SAP solutions on ONE business platform in the Cloud. SAP saw accelerated SAP HANA momentum and now has more than 3,600 SAP HANA customers and more than 1,200 customers for SAP Business Suite on SAP HANA. SAP HANA is also evolving into the leading technology platform with more than 1,500 startup companies building applications on SAP HANA and new strategic

partnerships with HP and VMware.

To view an unabridged version of this press release, visit: <http://www.news-sap.com/2014-second-quarter-earnings/>

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## ***Syntel Reports Second Quarter 2014 Financial Results***

17 July 2014

### **Highlights:**

- Q2 revenue of \$228.3M, up 13% from year-ago quarter, 4% sequentially
- Q2 EPS of \$1.41 per diluted share, up 24% from year-ago quarter, 2% sequentially
- Q2 cash & short term investments of \$769.8M
- Global Headcount of 24,122 on June 30, 2014, up 5% versus prior year

Syntel, Inc. announced financial results for the second quarter, ended June 30, 2014.

### **Second Quarter Financial Highlights**

Syntel's revenue for the second quarter increased 13 percent to \$228.3 million, compared to \$202.5 million in the prior-year period, and increased four percent sequentially from \$219.5 million in the first quarter of 2014. During the second quarter, Banking and Financial Services accounted for 49 percent of total revenue, with Healthcare and Life Sciences at 17 percent, Retail, Logistics and Telecom at 16 percent, Insurance at 15 percent and Manufacturing at three percent.

The Company's gross margin was 39.2 percent in the second quarter, compared to 41.3 percent in the prior-year period and 43.7 percent in the first quarter of 2014. Selling, General and Administrative (SG&A) expenses were 11.5 percent of revenue in the second quarter, compared to 9.2 percent in the prior-year period and 14.7 percent in the previous quarter.

The second quarter income from operations was 27.7 percent of revenue as compared to 32 percent in the prior-year period and 29.1 percent in the first quarter. The sequential decline in operating margin primarily reflects the impact of immigration expenses and offshore wage increases, which was partially offset by the impact of currency-related balance sheet translations. In addition, the company recorded an out-of-period accounting adjustment during Q2 that lowered SG&A by \$3 million. This one-time adjustment had no impact on revenue or gross margin.

Net income for the second quarter was \$59.3 million or \$1.41 per diluted share, compared to \$47.5 million or \$1.14 per diluted share in the prior-year period and net income of \$58.1 million or \$1.39 per diluted share in the first quarter of 2014.

During Q2, Syntel spent \$4.3 million in CAPEX, largely in support of campus infrastructure, and finished the quarter with cash and short-term investments of \$769.8 million. The Company ended the quarter with 24,122 employees globally.

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

<http://investor.syntelinc.com/releasedetail.cfm?ReleaseID=860418>

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## ***Tata Consultancy Services' Strong Q1 Performance Signals Fast Start to FY 2014-15***

17 July 2014

Tata Consultancy Services reported its consolidated financial results according to IFRS for the quarter ended June 30, 2014.

### **Financial Highlights for Quarter Ended June 30, 2014**

- Operating Income\* at \$ 972 million; Growth of 13.5 % Y-o-Y and (4.8%) Q-o-Q
- Operating Margin at 26.3 %
- Earnings Per Share at \$ 0.43

### **Business Highlights for Quarter Ended June 30, 2014**

- Gross Addition 15,817 Employees & Net Additions 4,967 Employees
- All time High Utilization rates at 85.3% (excluding trainees)
- Five new \$50+ million clients added

Commenting on the Q1 performance, Chief Executive Officer and Managing Director, N Chandrasekaran said: "Robust volumes and healthy growth across all industries and key markets helped TCS start the new financial year on a strong note as our broad-based business portfolio continues to deliver results. We have a strong demand pipeline in place and our customer-centric mindset, leadership in the 'Digital' space and strong execution capabilities will help us to sustain our momentum."

Mr Chandrasekaran added: "On the occasion of the 10<sup>th</sup> anniversary of TCS' IPO, the board of directors has announced a special dividend of Rs 40 per share."

Rajesh Gopinathan, Chief Financial Officer, said: "Our disciplined stance in operations helped us mitigate the impact of multiple headwinds like currency movements, accelerated depreciation norms and wage hikes during the quarter. Looking ahead, we will continue to maintain our operating margins in our desired band by operating efficiently."

During Q1, TCS posted the highest incremental revenue of \$191 million in the last 15 quarters driven by holistic growth across markets led by North America. Asia-Pacific, India, United Kingdom, Europe all continued to grow.

Growth was seen across all industry segments led by Media & Information Services, Life Sciences, Retail, Telecom with all non-BFS verticals growing in excess of five percent sequentially.

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

[http://www.tcs.com/news\\_events/press\\_releases/Pages/TCS-Financial-Results-Q1-FY-2015.aspx](http://www.tcs.com/news_events/press_releases/Pages/TCS-Financial-Results-Q1-FY-2015.aspx)

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## ***Wipro Limited to Announce Results for First Quarter Ended June 30, 2014 on July 24, 2014***

11 July 2014

# CIMdata PLM Industry Summary

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Wipro Limited will announce results for the first quarter ended June 30, 2014 on Thursday, July 24, 2014 after stock market trading hours in India. The results will be available in the Investors section of the company's website at [www.wipro.com](http://www.wipro.com).

At 06:45 PM IST\* (9:15 AM US Eastern time) following the results announcement, the senior management will discuss the company's performance for the quarter and answer questions sent by 6.00 PM IST\* (8:30 AM US Eastern time) to the email ID: [aravind.viswanathan@wipro.com](mailto:aravind.viswanathan@wipro.com) or [vaibhav.saha@wipro.com](mailto:vaibhav.saha@wipro.com)

The phone numbers to dial in for this conference call are:

Time 06.45 PM - IST\* (9.15 AM-ET#)

Click here for your Diamond Pass™ >

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US Standby Toll Number 1 323 386 8721

UK Toll Free Number 0 808 101 1573

UK Standby Toll Number 44 203 478 5524

No passcode Required

\* Indian Standard Time, # US Eastern Time

Please dial the number five to ten minutes ahead of schedule. The operator will provide instructions on asking questions before and during the call.

The audio from the conference call will be available online through a web-cast and can be accessed in the Investors section of the company's website at [www.wipro.com](http://www.wipro.com).

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## Implementation Investments

*Delcam helps CNC Polystyrene to make its Customers Smile*

18 July 2014

## CIMdata PLM Industry Summary

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"With Delcam's PowerMILL Robot, we make some fantastic stuff," claims Derek Gibb, Production Manager at CNC Polystyrene. "It's always nice to see the smile on the customer's face." To see some examples, please go to [www.delcam.tv/cnc-polystyrene](http://www.delcam.tv/cnc-polystyrene)

CNC Polystyrene makes large-scale models for scenery, in-store displays and special events, in lots of different finishes and specifications for both indoor and outdoor use. Since it began using PowerMILL Robot and an ABB640 robot, CNC Polystyrene is able to produce bigger and better items, while maintaining a high level of accuracy and consistency. The ABB robot has a reach of up to 3.2 metres, allowing the company to create much larger pieces.

"We used to do a lot of work for TV and films where we were restricted by the size that we could produce in one piece," explained Mr. Gibb. "With the robot, we can go up to two and a half metres high and almost two metres wide all the way round. You can create things much quicker in one piece, instead of having to make and assemble multiple pieces."

CNC Polystyrene has carried out projects for major high street stores such as GAP, Harvey Nicholls, Selfridges and Harrods, as well as for smaller retailers. It also undertook work on props used for the opening and closing ceremonies at the Olympics. Another unusual project was producing a series of two-metre-tall rabbits for the Ann Summers retail chain.

Managing Director, Jeff Phillips believes that "Delcam's software is the very best in the industry; that's why we've decided to go that way." An important benefit of the software is that it ensures that the robot can create genuinely identical products. "In the old days, with hand carving you could make models that looked similar but nowadays, customers want the models to be absolutely the same," he commented.

PowerMILL Robot allows CNC Polystyrene to see the program on the computer before actually cutting which helps to reduce waste and so ensures that the company can offer its clients the best price for the project. In addition, CNC Polystyrene can send video footage of the simulation to its customers so that they can see what the finished product will look like and, if required, make changes before any material is cut.

Having used Delcam's initial VB application for robot machining, CNC Polystyrene has been impressed by the new version that has been completely rewritten and fully embedded inside PowerMILL. As well as giving users access to all the multi-axis machining strategies within PowerMILL, the new software allows numerous projects to be worked on at the same time. "The new software makes the whole process a lot easier," added Mr. Gibb.

"Whenever I've had to phone up the support team, they've always been very helpful," said Mr. Gibb. "If they couldn't figure out the problem there and then, I would upload the files and they would then run it through on their software, see where the problem lies and provide a solution."

"Our clients want bigger and better models, and we have to be in that market," concluded Mr. Phillips. "Without the robot and Delcam's software, we would not have survived."

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### ***Expliseat uses ESI's Virtual Seat Solution to Develop the World's Lightest Aircraft Seat***

17 July 2014

[ESI Group](#) announces that [Expliseat](#) has obtained certification for their revolutionary Titanium aircraft seat; developed with the help of ESI's [Virtual Seat Solution](#). French company [Expliseat](#) thereby releases

# CIMdata PLM Industry Summary

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the lightest seat ever certified by the European Aviation Safety Agency (EASA).

The Titanium seat was developed in record time thanks to a highly innovative design and manufacturing process. [Expliseat](#) used ESI's [Virtual Seat Solution](#) to develop and test fully virtual seat prototypes; easily conducting many iterations without the need to build numerous (and costly) real prototypes.

"Virtual Prototyping empowers SMEs to shorten the pre-industrial phase of their new products - and to do so with minimum initial investment," explains Fouad El-Khalidi, Industry Strategy & Innovation General Manager, ESI Group.

[Virtual Seat Solution](#) is a dedicated software solution for seat design, manufacturing and performance that takes into account the physical behavior of materials and enables virtual pre-certification of a seat before final testing of the real seat.

Thanks to [Virtual Seat Solution](#), Expliseat was able to develop and test newly patented technologies that are used to absorb the shocks felt by aircraft passengers during the flight and thereby increase comfort.

"Virtual Prototyping is a proven industrial approach to pre-certify the manufacturing process and performance of an innovative product, such as our Titanium seat. Our experience working with ESI's Virtual Seat Solution confirms the efficiency of this solution in speeding up innovation. Virtual Seat Solution has helped us reduce drastically the development time usually required to design an innovative product, and has allowed us to increase the business value of our company in record time!" explains Vincent Tejedor, CTO of Expliseat.

Available for Airbus 320 and Boeing 737 aircrafts, the new Titanium Seat from [Expliseat](#) fulfills the many requirements of an economy class seat: light weight, sleek design, excellent ergonomics, ease of personalization, safety, and durability.

Combining the use of new materials with a novel design, [Expliseat](#)'s super-lightweight Titanium Seat weighs only 4 kilograms. It is the first seat ever certified by EASA under the 5kg mark. The seat features an innovative titanium and composite structure, which can be covered either with textile or leather materials. The Titanium Seat offers at least 50 percent weight saving compared with today's lightest existing models (8 to 10 kilograms); a significant weight reduction that can translate into an estimated 3 to 5 percent fuel saving - or \$ 300,000 to \$ 500,000 per aircraft per year.

The Titanium seat received [ETSO](#) C39c approval from the European Aviation Safety Agency on April 1, 2014. The ultra-light seat respects all E.U. safety standards and is now approved for flight on board European and international airline companies.

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## ***Odlo adopts Lectra Modaris® 3D***

15 July 2014

Lectra is pleased to announce that Odlo is implementing Lectra Modaris® 3D to support its business growth in the sportswear market.

Established in 1946 in Norway, and a Swiss company since 1986, Odlo is a European leader in sports underwear and is known for their technological innovation in this field. In addition to their technical sports underwear collection, Odlo produce specialized clothing for running, cycling, cross-country and outdoor wear for adults and children.

They produce two collections per year in each category and are present in 20 markets.

Odlo's goal is to increase their market share in the sports outerwear market by developing versatile sportswear to the same standard as their underwear, but that can be worn as fashion items. "We want to be perceived not only as a sports underwear brand, but also as a supplier of fashionable sports outerwear," declares Ulrike Froitzheim, Head of Quality Management and 3D Project Manager.

Odlo's challenge is to maintain their reputation for comfort, quality and performance while delivering more fashionable collections at a faster pace. Working with technical materials and sport-specific fit presents unique challenges that Odlo also has to consider. "The unique fit requirements of a sports garment need to be respected, as well as demands for sun protection, breathability, elasticity, and resistance to water and wind," explains Ulrike Froitzheim. "The pattern for a pair of bike shorts, for example, is designed specifically to support the athlete in a seated position."

Lectra Modaris 3D's ability to respond to unique fabric and fit challenges made it a natural choice for Odlo. Styles are visible onscreen and modifications can be done immediately and shared visually, contributing to better communication between different teams, including design, product development, product marketing, management and sales. "Not everyone can interpret 2D sketches in order to understand the final product; 3D gives us a way to visualize the product," says Ulrike Froitzheim. "Better communication and better understanding will help us make better decisions."

Pattern complexity and special fabrics make sportswear prototypes very expensive. Odlo hopes to cut development costs and lead-time by reducing the number of prototypes they produce. Improved product visualization before physical prototypes are available will also help Odlo make earlier, more accurate estimations. "We have to reduce our development time and make better decisions, and earlier. So we decided to start a 3D project," adds Ulrike Froitzheim.

"Our motto is 'one step ahead'. In our opinion, Lectra is one step ahead with their 3D solution and will support us to achieve our goals, once we integrate 3D into our development process," concludes Ulrike Froitzheim.

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## Product News

### ***ANSYS Releases New Version of SCADE System Software***

15 July 2014

Systems and software engineering teams can drive new levels of collaboration through innovative information exchange with each other and with third-party data repositories thanks to improvements in the latest release of ANSYS® SCADE System.

Efficiently designing complex systems and embedded software applications – which can include sensors, actuators and controllers that run complicated software applications – is a challenge for many organizations due to a lack of efficient collaboration among engineering teams and databases. The newly released SCADE System 15.2 from [ANSYS](#) solves these challenges by providing new, unique capabilities and enhancements that offer the most advanced approach to guide complex systems engineering designs.

# CIMdata PLM Industry Summary

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Release 15.2 extends the SCADE System solution through unlimited component reuse as well as comprehensive data management for exchanging data with third-party databases and propagating this data within the systems architecture design. The solution also features a new SCADE System configurator tool to customize the solutions for specific domains, in addition to such standard domains as IMA and AUTOSAR.

"Lack of internal collaboration has been a major impediment in product development," said Eric Bantegnie, ANSYS vice president. "This latest release of SCADE System helps to remove this barrier by enabling teams to share data effortlessly – furthering our vision for Simulation Driven Product Development™."

Highlights of the release include:

- **Hierarchy management:** Systems engineers need to reuse components, which may contain sub-components, as well as specify different information for individual instances of the same component. This requires consistently managed replicas of the components' internal definition. Traditional tools do not provide that capability and instead require engineers to manually copy and paste definitions and resolve inconsistencies when changes are made. SCADE now enables systems engineers to manage the entire hierarchy of instances in a user-friendly environment, automatically preserving the consistency of the replicated data. As a result, engineers save considerable time and reduce the risk of introducing errors into the models.
- **Data sharing and reuse:** Systems engineers need to manage and produce Interface Control Documents (ICDs), which are detailed specifications of all of the interfaces between subsystems and the system with external forces. Managing this large set of information is a complicated task, as the data may have been defined prior to the design of the system architecture itself. With SCADE System 15.2, systems engineers can save time by importing and exporting data dictionaries, allocating data to the architecture and propagating them along the communication paths. Model-based ICDs can be defined at all levels within the system architecture, including functions, architecture item and equipment. The ICDs are supported by customizable tables in each block. They include the list of data produced and consumed, along with data properties, source and target of the data and any information extracted from the model by customizable scripts.
- **Automated configuration:** SCADE System includes new configuration technology, enabling tools and methods teams to easily customize the solution for customer-specific domains, as well as standard domains such as IMA and AUTOSAR. The configuration contains the definition of such domain-specific objects as function, equipment and bus. It also includes domain-specific object properties and constraints among objects. Configuration deployment is fully automated and allows end users to work with a domain-specific modeler with dedicated user interface palettes and property pages. New configuration adoption is increased because this environment is familiar to the end users.

SCADE System provides a comprehensive environment and user-friendly interface that simplifies systems engineering tasks that are otherwise complex to handle: consistent replication of reused components in a system architecture, propagation within the architecture of data imported from pre-existing databases and generation of up-to-date and consistent ICDs. With the configurator module, end user tasks are made even easier with interfaces that exactly match the user's domain.

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## ***BETA CAE Systems S.A. announces the release of ANSA & μETA v15.1.1***

15 July 2014

BETA CAE System S.A. announces the release of the v15.1.1 of the ANSA & μETA pre- and post-processing suite. With improvements and fixes to identified problems, this version further enhances and improves the performance of their latest v15.1x branch. Amongst the improvements and fixes of v15.1.1 the most noticeable are listed below.

### Understanding the Software Release Schedule

#### The plan

BETA CAE System is committed in delivering improved and enhanced software releases, the soonest possible, in order to meet the requirement of their customers for the continuous improvement of their experience and work. Therefore, they are working in releasing new software versions with code corrections, new software features and enhancements, in regular, frequent intervals.

- A major software version is released every year.
- First point releases, such as v14.1.0, v14.2.0 and so on, with code corrections but also with additional software features and enhancements are released every three months.
- Second point releases, such as v14.2.1, v14.2.2, v14.2.3 mainly with code corrections only upon their parent first point release, are scheduled on a monthly basis.

Each software release is accompanied by a detailed description of the introduced corrections and/or additions so that their customers can decide whether it is critical to implement this release in their environment.

#### This release

This release of v15.1.1 implements code corrections, to the v15.1.0 release and the latest pre-existing release of the 14x branch, i.e. 14.2.5.

#### Known issues resolved in ANSA

##### Parts Manager

When a part was unmeshed, its mass would be zero in the Part Manager's attributes.

Replace: Correction in the Sets reapplication on the new part.

##### Compare

Comparing databases with more than five thousands PLINKs, could cause unexpected termination.

##### Connections and Assembly

Check: Connections>Maximum dist>By absolute distance option, ignored the defined distance and used instead the default one.

FEMFAT SPOT: Improvement of RIVET beam's Young's modulus calculation to comply with the FEMFAT specifications.

##### Mesh

The generation of hexahedral layers from quad shell mesh in combination with the collapse mode could create invalid layers.

# CIMdata PLM Industry Summary

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Elements: Selecting three nodes, that all belonged to polygon elements, to create a tria element could result in unexpected termination.

DECKs

Checks: Tied Contacts check was limited to the Abaqus Deck.

NASTRAN: Any K2GG/M2GG header command referencing multiple matrices might be read erroneously.

PAM-CRASH: Outputting a database containing SETs with names of 80 or more characters, in PAM-CRASH version 2012 or newer, could result in unexpected termination.

ANSYS: Solid-to-solid checks for Property Thickness penetrations might be ignored or not detected correctly.

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

Known issues resolved in  $\mu$ ETA

LS-DYNA model geometry would not be loaded correctly from the .key file if it contained the keyword INCLUDE\_TRANSFORM in more than one references.

Unexpected termination could occur when plotting curves from Abaqus files on MS-Windows workstations, if a user-defined abscissa was specified.

Erros ocured during the Fluent Mean Volume Fraction results reading.

OpenFOAM results on polygon and polyhedral meshes could not be mapped.

Sections forces from STAR-CCM+ \*.sim files might not be calculated correctly.

User field function result sets, could not be created, if curves were specified in the calculation expression.

Curves from the glstat variable of LS-DYNA binout files could not be loaded as expected.

Unexpected termination when overlaying a session that created and deleted a report.

Exporting Model Reports could cause unexpected termination.

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## ***BETA CAE Systems S.A. Announces the Release of ANSA & $\mu$ ETA v15.0.3***

15 July 2014

Further increasing the reliability of the v15.0x branch, BETA CAE Systems S.A. announces the release of the v15.0.3 ANSA &  $\mu$ ETA pre- and post- processing suite. This maintenance release focuses on the correction of identified issues for the ANSA /  $\mu$ ETA 15.0x branch and is addressed to those who wish to continue to use the v15.0x branch -and not upgrade to v15.1x branch- with its issues resolved.

These corrections have also been propagated to the latest releases of the 15.1x branch, ie v15.1.1.

Understanding the Software Release Schedule

The plan

BETA CAE System is committed in delivering improved and enhanced software releases, the soonest

# CIMdata PLM Industry Summary

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possible, in order to meet the requirement of their customers for the continuous improvement of their experience and work. Therefore, they are working in releasing new software versions with code corrections, new software features and enhancements, in regular, frequent intervals.

- A major software version is released every year.
- First point releases, such as v14.1.0, v14.2.0 and so on, with code corrections but also with additional software features and enhancements are released every three months.
- Second point releases, such as v14.2.1, v14.2.2, v14.2.3 mainly with code corrections only upon their parent first point release, are scheduled on a monthly basis.

Each software release is accompanied by a detailed description of the introduced corrections and/or additions so that their customers can decide whether it is critical to implement this release in their environment.

This release

This release of v15.1.1 implements code corrections, to the v15.1.0 release and the latest pre-existing release of the 14x branch, ie 14.2.5.

Known issues resolved in ANSA

Parts Manager

When a part was unmeshed, its mass would be zero in the Part Manager's attributes.

Compare

Comparing two databases with more than five thousands PLINKs, could cause unexpected termination.

TOPO

Database Browser: Deleting entities from "Geometry" list could cause unexpected termination.

Mesh

Elements: Selecting three nodes, that all belonged to polygon elements, to create a tria element could result in unexpected termination.

Shell Mesh: SETs containing Shell elements affected by reconstruct would not be updated properly.

Volume Mesh: The performance issue with Define [Auto Detect] has been fixed.

Batch Meshing

The result of the proximity refinement from CFD Batch Mesh procedure was not always correct.

Decks

NASTRAN: During Input, the SDIST and EXT fields of \*BGSET keyword would be ignored.

PAM-CRASH: Outputting a database containing SETs with names of 80 or more characters, in PAM-CRASH version 2012 or newer, could result in unexpected termination.

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

Known issues resolved in  $\mu$ ETA

Supported Interfaces

PAM-CRASH:

- Results from DIFFCrash would not be read.

# CIMdata PLM Industry Summary

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- In certain cases PLINKS would not be read from .pc files.
- Unexpected termination could occur when reading .pc files with wrong SENPTG definition.

## LS-DYNA:

- Incorrect Solid skin when reading from d3plot files.
- Beam sections displayed with wrong radius.
- Unexpected termination when reading results from specific d3plot files with airbag particles.
- Plotting curves from specific LS-DYNA binout files on MS-Windows workstations could cause termination.

## Abaqus:

- Contact status results might be loaded incorrectly.

## ANSYS:

- Wrong element nodal forces were displayed on midside nodes of second order tria elements.

## PERMAS:

- Unexpected termination when plotting curves of results from .post files.

## U3D:

- Follow Node Transformations were not supported for U3D PDF files.

## MotionSolve:

- The animation of Flex Bodies' deformations would not be performed correctly.

## NVH Calculators

In the Modal Response tool, for load types other than forces, the calculated responses would be incorrect.

Energy results would not be plotted in the FRF Assembly tool.

When setting a zero End Frequency in the FRF Assembly tool, unexpected termination could occur.

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## ***Dassault Systèmes and BoostAerospace Announce “AirDesign” Collaboration Platform***

15 July 2014

[Dassault Systèmes](#) and BoostAeroSpace, the European aerospace and defense digital exchange hub, announced today the launch of “AirDesign,” the European aerospace and defence industry’s collaboration platform.

AirDesign is a scalable collaboration platform available as a service on a high-security, private cloud or on-premise. Distributed by BoostAerospace and Dassault Systèmes, it consists of a neutral workspace for advanced OEM and partner PLM collaboration, design and manufacturing. Considered the next generation platform for collaboration and exchange, it has been designed to integrate all the key industry players, from OEM to small and medium business enterprises.

AirDesign drastically reduces operational costs for all partners through a single infrastructure, common

# CIMdata PLM Industry Summary

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exchange methods, open standards and easy access, all without adversely impacting existing information systems. All the primary European OEMs jointly requested and defined this platform in order to facilitate exchanges, support their suppliers' ecosystems and generate new opportunities with services.

"The very complex problems of orchestrating aerospace and defence PLM systems between multiple partners have been solved with AirDesign," said Jean Ferlus, CEO of BoostAerospace. "Its ability to handle and synchronize the exchange of highly secured PLM data has a positive effect on the quality, efficiency and productivity of the European aerospace industry. It gives the industry a strong application to support development."

To manage the exchange of PLM data between all partners whatever their systems may be, AirDesign delivers three key capabilities through its digital exchange hub:

- The first allows an OEM to organize exchanges in the context of programs and projects, including the delegation of administrative roles;
- The second is an integrated, secured and automatic technical data package exchange. The traceability needed for complex programs is a native capability, ensuring proper management of large technical files between OEMs and suppliers;
- The third capability consists of access to a wide variety of services, including converters based on standards or approval services that a partner can use during an exchange.

AirDesign provides new opportunities for all stakeholders in the aerospace ecosystem. Additional developments are planned, all leveraging the inclusiveness and openness of the AirDesign platform, powered by Dassault Systemes' 3DEXPERIENCE platform and ENOVIA application.

"AirDesign provides an environment for aerospace and defence industry partners to accelerate and sustain collaborative innovation," said Michel Tellier, Vice President, Aerospace & Defence Industry, Dassault Systèmes. "It opens a large number of opportunities for suppliers of all sizes, as they will join an on-the-cloud mutualized infrastructure, spending the money and resources normally needed for an IT infrastructure on developing their business with more customers."

Dassault Systèmes is attending the Farnborough International Airshow (July 14-18) in the chalet B-32.

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## ***New CIM Database 10 PLM Release: CONTACT Optimizes Collaboration during the Development Process***

14 July 2014

CONTACT Software announces release 10.1 of CIM Database PLM. Companies that want comprehensive support for their development processes will benefit from new wide-ranging collaboration functions. The highlights are the new Collaboration Portal, mBOM Manager and Workflow Designer applications.

CIM Database PLM 10.1 optimizes product lifecycle management (PLM) in distributed engineering networks and simplifies global collaboration between engineering disciplines, sites and companies. Exceptionally intuitive and task-oriented interfaces help users perform demanding activities such as eBOM/mBOM mapping quickly and efficiently. What is more, by offering Unicode support, the new release takes account of the entire PLM infrastructure including the important CAx and ERP standard

interfaces.

**Collaboration Portal: Secure, process-driven collaboration with other companies.** CONTACT's [Collaboration Portal](#) reliably integrates suppliers in a company's internal PLM processes. The new portal solution supports process-oriented collaboration by giving development partners web-based access to orders, CAD data and accompanying documents which they then return in the same way after processing. The solution's ease of operation, combined with powerful background functionality, ensures that suppliers and engineering partners can perform their development tasks reliably and confidently and that the customer can find out the current status of processing at any time.

**mBOM Manager accelerates processes between development and manufacturing departments.** The new [mBOM Manager](#) simplifies the way technical changes are handled thanks to the validated synchronization of the engineering and manufacturing BOMs. The application helps centralized or decentralized preproduction services map deviations in both quantities and structures at the production plants quickly and reliably during initial creation as well as upon any subsequent changes to the BOMs. The central tool here is the consolidation cockpit, which clearly displays relevant discrepancies and provides users with intelligent difference resolution functions directly in the appropriate context. mBOM Manager offers clear advantages, in particular for companies with complex product structures, multiple manufacturing sites or short change cycles.

**Workflow Designer moves process design into specialists departments.** Thanks to the new [Workflow Designer](#), users – even if they do not often work with the PLM system – can design and execute workflows simply and intuitively. CIM Database 10.1 provides an improved, interactive graphical user interface, an extended repertoire of workflow elements and permits the input/output assignment of documents to each task. In addition, workflow operation is now fully integrated with the Task Management, Activity Stream and Collaboration Portal functionalities.

In the coming weeks, CONTACT Software will also be releasing new apps and enhancements for CIM Database 10.1. These include requirements management with optimized baselining and extended integration in the Microsoft Office environment, as well as comprehensive improvements and extensions in the areas of project management, scheduling and Gantt chart display capabilities.

All these innovations use the eLINK HTML 5 technology from the CONTACT Elements Platform and are based on the component architecture that was first introduced with CIM Database 10. Companies consequently benefit from ongoing improvements and new features based on their current CIM Database release.

"This illustrates the strengths of our open component architecture. It allows us to constantly develop new apps and functions," explains CONTACT's Managing Director Karl Heinz Zachries. "This means that, in particular, new customer requirements can be fulfilled significantly faster thanks to agile, extensible solutions without being dependent on the intentionally longer release cycles of our product platform."

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***New Release: STAR-CD and es-ice v4.22***

17 July 2014

# CIMdata PLM Industry Summary

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CD-adapco™ today announced the release of v4.22 of STAR-CD® and es-ice™ IC Engine simulation software. The v4.22 release provides extensive refinements to existing physics models and pre-processing developments to deliver rapid and more accurate in-cylinder simulation.

es-ice has been enhanced with an automatic meshing capability for full cylinder models. Geometries can now be easily meshed with a minimum of inputs using one simple panel. Additional engine specific results, case details, and simulation settings have been added to the summary report and it is now possible to export an Excel workbook of the complete simulation post results. Automation has been further improved with the addition of several embedded Excel driven scripts. The complete sector simulation process and results animation and plotting processes can now be driven via Excel input and are available directly from within es-ice. Additionally, a full model can now be reflected from a trimmed half model to ensure perfect symmetry of the mesh.

The ECFM-CLEH model has been extended to allow combustion of multi-component fuels or dual-fuel engines, including oxygenated fuels. As with ECFM-3Z, the ECFM-CLEH model uses a library-based approach to incorporate the effects of complex chemistry. In addition to the libraries for standard fuels that are delivered to users, it is now also possible for users and other 3<sup>rd</sup> parties to generate their own fuel chemistry libraries for autoignition, laminar flame speed and equilibrium according to an open format provided by CD-adapco and providing they have appropriate chemistry mechanisms and software.

Libraries for the CO model, which is part of ECFM-CLEH, are included in the installation.

All libraries now use equivalence ratio rather than mixture fraction as one of the independent variables as this is more accurate for engine operating points with substantial EGR. Additionally, the libraries available with the model have been extended in equivalence ratio, pressure and EGR dimensions to provide users with a wider range of engine operation.

The robustness of the higher-order MARS differencing scheme has been improved especially for the NORA NOx and soot models whilst maintaining the same computing time.

The soot sectional method, which is important for calculating soot size distribution, has been extended to operate with all ECFM and PVM-MF combustion models.

The PVM-MF (Progress Variable Model – Multi-Fuel) model, first introduced in v4.20, has seen a number of enhancements for v4.22 release. PVM-MF is a detailed chemistry-based combustion model that is able to operate under low Damkohler number combustion regimes that can occur under lean, rich or high EGR engine operating conditions. It has full 3D cell-based flame resolution, in contrast to zonal or representative flamelet models and can cover premixed, diffusion, HCCI or mixed-modes of combustion. Since its first release, the model has been refined in a number of areas and for dual-fuel operation. Fuel libraries for gasoline, diesel, natural-gas have been updated and an additional library for natural-gas–diesel (dual fuel) are available from Customer Support. This approach gives an extremely efficient and low cost approach to modeling these engine types and it is now also possible to support user fuel libraries and chemistry mechanisms.

The evaporation and mixing of complex fuel mixtures is critical to today's DI gasoline engines. To improve modeling accuracy in these engines, refinements to the existing Raoult's Law multicomponent model have been introduced to enable the evaporation of ethanol-gasoline mixtures to be better represented. The UNIFAC models, available in STAR-CD v4.22, provide a framework for modeling mixtures where the molecular structure of fuel components is substantially different and is generally applicable to engine bio-fuels. In addition to the Lagrangian spray model, the implementation allows for

all aspects of fuel evaporation including impingement and all wall-film regimes.

An additional option for heat transfer has been introduced in STAR-CD v4.22. This model provides an easy-to-use and computationally economical method for calculating crank-angle resolved changes in structural temperature and the effect on in-cylinder processes. Changes in surface temperature during the engine cycle can be significant for spray-wall impingement, during combustion and if there is any thermally insulating layer. The model assumes locally 1-dimensional heat transfer within the structure and is solved on multiple 1-dimensional meshes normal to the surface, these being generated internally through the specification of a few simple dimensional and thermal property parameters. Multiple material/layers, including contact resistance, can be incorporated and can be specified independently on all major components, ie the piston, liner, cylinder head and valves. Initial and boundary conditions can be either prescribed by the user or mapped from a cycle-averaged structural solution.

STAR-CD v4.22 provides a number of new capabilities to support the continued development of STAR-CD in-cylinder LES capability. Proper Orthogonal Decomposition (POD) is a powerful analysis technique for the quantitative analysis of LES calculations that can be used to examine and compare different modes of a nominally cyclically-repeating flow and which is now available to the user. The improved Werner-Wengle wall model, which allows for SGS viscosity effects to be included in the fully turbulent region of the wall boundary layer, is now available. This simple yet effective model has been demonstrated to improve the correlation of wall friction factor. Finally, the discretization of the strain-rate has been improved that demonstrably improves small-scale dissipation. Further evaluation of these new capabilities will continue with CD-adapco IC engine university partners during the coming year.

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## ***Sketch Search in the latest Version of 3D CAD Models App***

15 July 2014

The PARTcommunity 3D CAD models app by CADENAS is now available in the latest version 3.0.4. Besides many other optimizations in function and design, the popular, over 450.000 downloaded app now possesses the trendsetting sketch search.

### **A Picture says more than a thousand words**

Smartphone and tablet users with their relatively small screens and without real keyboard and mouse need a as simple as possible control interface. Especially in searches, typos can be extremely frustrating - even more so if there are special characters or case sensitivity. The latest version of the PARTcommunity 3D CAD models app has therefore been enhanced with a vital new element:

Through the "Sketch Search" called function, users of the popular app can now find parts not only through full text search or catalog browsing, but also through a simple sketch of the needed object. The interface is as simple as it is intuitive: Just trace the rough form of the object on the three sides of a cube and hit 'search'. If you want more detail, you can use various editing tools to refine the sketch and to narrow down the search results.

### **Intelligent interface meets clever communications**

Also, the app's look&feel has been further improved. With the transition to flat design, the application now shows a much tidier look and provides an even more comfortable user experience - particularly on small smartphone screens. Another comfort function are the new sharing buttons. With those, selected

content can now be shared with friends and colleagues not only by e-mail, but also through installed social media channels like Facebook, Google+ or Twitter.

## **Native app for Android and iOS**

The PARTcommunity 3D CAD models app was developed and optimized specifically for both Android and Apple's iOS operating system. With it, engineers and purchasing agents in the sectors of machinery and equipment construction, as well as automotive have direct access to catalogs of more than 400 popular manufacturers with millions of components, which can be viewed as 2D or 3D models on smartpone or tablet. Additionally, those CAD models can be downloaded and integrated in your own design environment in over 85 different CAD formats.

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## ***Trimble Enhances its Cloud-based Software for Smart Water Infrastructure Mapping and Work Management***

14 July 2014

Trimble introduced the latest version of its smart water infrastructure mapping and work management software—Trimble® Connect™ version 1.8. The latest release of the cloud-based, Geographic Information System (GIS)-centric software includes a suite of applications that allow water, wastewater and stormwater utilities to visualize and efficiently manage their network maintenance and data collection activities.

Trimble Connect software leverages Trimble's GNSS rugged mobile devices and Esri's GIS technologies to accurately map, locate and assess the condition of critical infrastructure assets, allowing utilities to keep their field infrastructure data up-to-date and accurate. Offered as a software-as-a-service (SaaS) subscription, the solution allows users to monitor asset operating conditions, manage leak repairs, reduce non-revenue water, deploy and inspect smart meters, lower potential threats to safety and health due to contamination and adhere to regulators' reporting guidelines and requirements. Trimble Connect version 1.8 can be configured and deployed quickly on a variety of Trimble and non-Trimble mobile devices, laptops, tablets and smartphones, including Apple iPads, iPhones, Android, Windows and Windows Mobile devices to automate field workflows and eliminate paper-based maps.

Trimble Connect utilizes the latest Esri ArcGIS 10.2.2 for Server, Mobile and ArcGIS Online basemap services. The software is designed to automate a variety of specific water and wastewater industry workflows through individual "apps" offered within the product and as part of a subscription. The new version provides standard core apps including Map Book, Manhole Inspector, Leak Repair, Hydrant Inspector, Valve Inspector, Meter Changeout, Incident Repair, Water Mapper, Wastewater Mapper and Stormwater Mapper. In addition, an optional partner app developed for American Flow Control (AFC) hydrant and valve data collection, "AFC Mapper," can be purchased from AFC and their distributors for use with Trimble rugged handhelds.

In addition to the standard core apps, Trimble Connect version 1.8 includes:

- Full offline mobile support including GIS data for Android, iOS, Windows Mobile and Windows 7/8 platforms
- Esri ArcGIS Online (AGOL) support to create and share Web Maps using data collected in Trimble Connect

# CIMdata PLM Industry Summary

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- Work management support for single and multi-asset work orders on all supported platforms
- Enhanced workflows for asset inspection and condition assessment
- Embedded business rules to define failed inspections or ones that need review
- Enhanced workflows for asset mapping and data collection
- Support for the Trimble Geo 7 series rugged mapping handheld and integrated Laser Rangefinder
- Standard dashboards with each of the core apps

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## ***ZWCAD+ 2015 Sneak Peek: CAD Software Still Allows Room for Imagination***

15 July 2014

[ZWCAD Design](#) today revealed some innovative features of its upcoming ZWCAD+ 2015. The sneak-peek features include Reference Manager, Super Hatch and Google Earth Design. The release date of ZWCAD+ 2015 will come in this August.

### **Manage all external resources with ease**

You may have an experience like this: after receiving a drawing with a myriad of external resources attached, you find the reference paths of these resources are invalid as your colleague set up the path in his own way. It may take you as long as a day to reset the paths. But now that would be a legend. In ZWCAD+ 2015, Reference Manager enables you to efficiently manage all external resources in the current drawing, including raster image, font and Xref. You can have a quick view of all the resources and spot any missing resources easily.

### **Versatile hatching with image, block and reference etc.**

Traditionally, hatching object is limited to predefined patterns. To freely and conveniently use patterns for hatching means time saved and efficiency improved for designers. In ZWCAD+ 2015, Super Hatch redefines the way you hatch. You can hatch with diverse objects including image, block and reference, etc., not only those patterns you have predefined.

### **Create in the real world with Google Earth**

Having architectural design sometimes can be tricky because the design objects need to be perfectly aligned to real graphic environment in pursuit of precision and accuracy. The upcoming ZWCAD+ 2015 can now directly import graphic snapshots from Google Earth. This new feature allows you to view your final design on a current map.

“It is reported by some media that judging from recently released products in the CAD field, new CAD software versions seem to have come to a dead end nowadays,” commented Daniel Huang, Product Manager of ZWCAD+, “For ZWCAD+, as we have come so far in learning user habit and customer need since its debut, we can say, in many ways, the new version 2015 proves CAD software still allows room for imagination.”

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